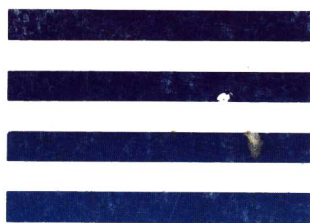


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*Cumulative Author, Subject
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Volumes 501–550 (1990–1991)*

CONTENTS

Cumulative Author Index, Volumes 501–550	1
Cumulative Subject Index, Volumes 501–550	156
Cumulative Compound Index, Volumes 501–550	316

AUTHOR INDEX

VOLUMES 501-550

A

- Abad, C., see Perez-Paya, E. 548(1991)93
Abad, C., see Perez-Paya, E. 548(1991)351
Abatangelo, G., see Brun, P. 526(1990)530
Abbott, F., see Kassahun, K. 527(1990)327
Abbott, T. P. and Kleiman, R.
Solvent selection guide for counter-current chromatography 538(1991)109
Abdel-Baky, S., see Al-Deen, A. N. 512(1990)409
Abdel-Baky, S., see Bakthavachalam, J. 538(1991)447
Abe, J., Asada, A., Fujimori, M., Imaoka, S. and Funae, Y.
Binding of lidocaine to plasma proteins resolved by high-performance liquid chromatography 526(1990)562
Abe, K., see Machida, R. 534(1990)190
Abe, Y. and Ishii, S.-I.
High-performance affinity chromatography of concanavalin A 510(1990)95
Abernethy, D. R., see DePetrillo, P. B. 527(1990)421
Abidi, S. L., Ha, S. C. and Rosen, R. T.
Liquid chromatography-thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179
Abouelezz, M., see Dunn, L. 548(1991)165
Aboul-Enein, H. Y. and Islam, M. R.
Direct separation and optimization of timolol enantiomers on a cellulose tris-3,5-dimethylphenylcarbamate high-performance liquid chromatographic chiral stationary phase 511(1990)109
Abraham, F., see Haken, J. K. 550(1991)155
Abraham, M. H., Whiting, G. S., Doherty, R. M. and Shuely, W. J.
Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329
Abrahamsson, K. and Klick, S.
Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39
Abramovich-Bar, S., see Woolfson-Bartfeld, D. 517(1990)305
Abramson, F. P., see Chace, D. H. 527(1990)1
Abu-Lafi, S., see Levin, S. 517(1990)285
Aburada, M., see Takeda, S. 530(1990)447
Aburatani, R., see Okamoto, Y. 513(1990)375
Ace, L. N., see Choudhury, S. 534(1990)208
Acevedo, F.
Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391
Acevedo, F. and Goitom, Z.
Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343
Achilli, G., see Rizzo, V. 536(1991)229
Achladas, G. E.
Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263
Achs, E., see Ulberth, F. 504(1990)202
Ackermann, B. L., see Coutant, J. E. 529(1990)265
Ackermans, M. T., Everaerts, F. M. and Beckers, J. L.
Isotachopheresis in open systems. Problems in quantitative analysis 545(1991)283
Ackermans, M. T., Everaerts, F. M. and Beckers, J. L.
Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345

- Ackermans, M. T., see Beckers, J. L. 537(1991)407
- Ackermans, M. T., see Beckers, J. L. 537(1991)429
- Ackland, C. E., Berndt, W. G., Frezza, J. E., Landgraf, B. E., Pritchard, K. W. and Ciardelli, T. L.
Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187
- Ackman, R. G., see Shantha, N. C. 533(1990)1
- Adachi, J., Mizoi, Y., Naito, T., Yamamoto, K., Fujiwara, S. and Ninomiya, I.
Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331
- Adachi, Y., Mizuno, S. and Yoshida, M.
Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39
- Adámek, V., see Slingerland, R. J. 510(1990)205
- Adami, P., Nasser, B. and Latruffe, N.
Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279
- Adami, P., see Maas, E. 521(1990)169
- Adamia, T. V., Budovich, V. L., Nevjagaskaya, I. A., Shlyakhov, A. F. and Jakovlev, S. A.
Effect of temperature on the sensitivity of the photoionization detector 540(1991)441
- Adamovics, J., see Kirschbaum, J. 507(1990)165
- Adams, A. K., see Binder, S. R. 550(1991)449
- Adaskaveg, M. E., see Alfredson, T. V. 507(1990)277
- Aden Abdi, Y., see Villén, T. 529(1990)309
- Adlard, M. W., see Donaldson, M. J. 509(1990)347
- Adler, A. J., see Crabtree, D. V. 543(1991)405
- Adler, C., see Schmitt, S. 510(1990)239
- Adlof, R.
Fractionation of egg and soybean phosphatidylcholines by silver resin chromatography 538(1991)469
- Adusumalli, V. E., see Segelman, A. B. 535(1990)287
- Advenier, C., see Dutot, C. 528(1990)435
- Aebersold, R. and Morrison, H. D.
Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79
- Aerts, M. M. L., see Binnendijk, G. M. 541(1991)401
- Afeyan, N. B., Fulton, S. P. and Regnier, F. E.
Perfusion chromatography packing materials for proteins and peptides 544(1991)267
- Afeyan, N. B., Gordon, N. F., Mazsaroff, I., Varady, L., Fulton, S. P., Yang, Y. B. and Regnier, F. E.
Flow-through particles for the high-performance liquid chromatographic separation of biomolecules: perfusion chromatography 519(1990)1
- Afeyan, N. B., see Fulton, S. P. 547(1991)452
- Afonso, D., Castellanos, M. A. and Rodriguez, M.
Determination of monoamines and indoles in amniotic fluid by high-performance liquid chromatography-electrochemical detection 528(1990)101
- Agache, P., see Makki, S. 539(1991)443
- Agarwal, N., see Upadhyay, R. K. 542(1991)531
- Agasøster, T., see Thanh, H. H. 532(1990)363
- Agathonos, P., see Koliadima, A. 550(1991)171
- Agathonos, P., see Stolyarov, B. V. 550(1991)181
- Ageta, T., see Mizobuchi, N. 526(1990)550
- Agnellini, D., see Pace, M. 539(1991)517
- Agnew, M. P. and Lauren, D. R.
Determination of ptaquiloside in bracken fern (*Pteridium esculentum*) 538(1991)462
- Agrawal, S., Tang, J. Y. and Brown, D. M.
Analytical study of phosphorothioate analogues of oligodeoxynucleotides using high-performance liquid chromatography 509(1990)396
- Aguilar, M. I., see Fridman, M. 512(1990)57
- Aguilar, M. I., see Hearn, M. T. W. 548(1991)117
- Aguilar, M. I., see Hodder, A. N. 506(1990)17
- Aguilar, M. I., see Hodder, A. N. 507(1990)33
- Aguilar, M. I., see Hodder, A. N. 512(1990)41
- Aguilar, M. I., see Hodder, A. N. 517(1990)317
- Aguilar, M. I., see Wilce, M. C. J. 536(1991)165
- Aguilar, M. I., see Wilce, M. C. J. 548(1991)105
- Ahlner, J., see Torfgård, K. 534(1990)196
- Ahmed, A. E., see Loh, J.-P. 530(1990)367
- Ahnoff, M., Chen, S., Green, A. and Grundevik, I.
Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593
- Ahnoff, M. and Persson, B.-A.
Chromatography of calcium channel blockers 531(1990)181
- Aiach, M., see Toulon, P. 539(1991)493

- Aichinger, I., Gübitz, G. and Birks, J. W.
Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163
- Airaksinen, H., see Laakso, I. 505(1990)424
- Airoidi, L., see Bagnati, R. 527(1990)267
- Aitzetmüller, K. and Guaraldo Goncalves, L. A.
Dynamic impregnation of silica stationary phases for the argention chromatography of lipids 519(1990)349
- Akane, A., Fukushima, S., Matsubara, K., Takahashi, S. and Shiono, H.
Analysis of blood acetate by head-space gas chromatography: comparative studies of reagents for the methyl esterification 529(1990)155
- Åkesson, B., see Lindegård, B. 514(1990)293
- Åkesson-Johansson, A., see Harmenberg, J. 508(1990)75
- Akira, K., see Baba, S. 530(1990)1
- Аки́яма, H., see Koike, M. 526(1990)235
- Akiyama, S., see Nakashima, K. 530(1990)154
- Akiyama, T., see Kuno, Y. 537(1991)489
- Akiyoshi, M., see Ohwa, M. 521(1990)122
- Akkerdaas, A., see De Jong, J. 529(1990)359
- Akporhonor, E. E., Le Vent, S. and Taylor, D. R.
Calculation of programmed temperature gas chromatographic characteristics from isothermal data. III. Predicted retention indices and equivalent temperatures 504(1990)269
- Al-Ammar, A. S., Hamid, H. A., Rashid, B. H. and Basheer, H. M.
Preseparation of uranium by reversed-phase partition chromatography. Application to the determination of trace elements in nuclear-grade uranium compounds by inductively coupled plasma atomic emission spectrometry 537(1991)287
- Al-Ani, M. R., see Hassan, N. A. 530(1990)102
- Alarcón, P., see Andrés, M. D. 507(1990)399
- Albert, F.-M., see Lausecker, B. 545(1991)115
- Albert, K. and Bayer, E.
Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345
- Albert, K., see Pfeleiderer, B. 506(1990)343
- Albrecht, M., see Nitz, S. 547(1991)516
- Alcázar, M. D., see Almela, L. 502(1990)95
- Al-Deen, A. N., Cecchini, D. C., Abdel-Baky, S., Moneam, N. M. A. and Giese, R. W.
Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409
- Alden, P. G., see Wildman, B. J. 546(1991)459
- Alebić-Kolbah, T. and Hiršl-Starčević, S.
Determination of piracetam in serum by gas chromatography 526(1990)556
- Alegre, L., see Carrasquer, A. M. 503(1990)459
- Alekseeva, I. V., see Galushko, S. V. 547(1991)161
- Alexander, L. R., see Terabe, S. 516(1990)23
- Alexander, P. W., see Buchberger, W. 546(1991)311
- Alexander, R., Ngo, S. H. and Kagi, R. I.
Identification and analysis of trimethylbiphenyls in petroleum 538(1991)424
- Alexandrovich, O., see Sigalov, A. 537(1991)464
- Alfredson, T. V., Maki, A. H., Adaskaveg, M. E., Excoffier, J.-L. and Waring, M. J.
Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277
- Algiman, E., Kroviarski, Y., Cochet, S., Kong Sing, Y. L., Muller, D., Dhermy, D. and Bertrand, O.
Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165
- Alishoev, V. R., see Berezkin, V. G. 509(1990)85
- Allan, S. M., see Moody, J. P. 530(1990)19
- Allen, J., see Philp, R. P. 550(1991)193
- Allen, J. L. and Meinertz, J. R.
Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217
- Allender, W. J.
Gas-liquid chromatographic analysis of ethyl fenthion in tissues of native birds 508(1990)199
- Allenmark, S., Edebo, A. and Lindgren, K.
Determination of itraconazole in serum with high-performance liquid chromatography and fluorescence detection 532(1990)203
- Allison, J., see Watson, J. T. 518(1990)283
- Almela, L., López-Roca, J.-M., Candela, M. E. and Alcázar, M. D.
Separation and determination of individual carotenoids in a *Capsicum* cultivar by normal-phase high-performance liquid chromatography 502(1990)95
- Alonso-Silva, I. J., Carretero, J. M., Martin, J. L. and Sanz, A. M.
Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

- Altria, K. D. and Smith, N. W.
Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506
- Alvarez-Zepeda, A. and Martire, D. E.
Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile-water mixtures 550(1991)285
- Alvaro Cebrian, J., see Muñio Blanco, M. T. 547(1991)79
- Alvi, S. N., see Husain, S. 502(1990)208
- Alyoshkin, V. A., Borisova, V. N., Ponomaryova, A. M. and Popkov, M. Y.
Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425
- Amaglio, C., see Brega, A. 535(1990)311
- Amano, H., see Takamura, K. 543(1991)241
- Amano, H., see Takamura, K. 545(1991)201
- Amari, J. V., Brown, P. R., Grill, C. M. and Turcotte, J. G.
Isolation and purification of lecithin by preparative high-performance liquid chromatography 517(1990)219
- Amati, D. and Li, Y.
Gas chromatographic determination of flumetralin in tobacco 539(1991)237
- Ambrose, C., see DePetrillo, P. B. 527(1990)421
- Amicucci, P., see Miraglia, N. 512(1990)123
- Amiot, J., see Lemieux, L. 519(1990)299
- Amis, T. J., Tyczkowska, K. L. and Aucoin, D. P.
Analysis of taurine in feline plasma and whole blood by liquid chromatography with fluorimetric detection and confirmation by thermospray mass spectrometry 526(1990)375
- Amlacher, R., see Weber, H. 525(1990)459
- Ammon, H. U., see Karlaganis, G. 549(1991)229
- Amsler, U., see Zollinger, M. 532(1990)27
- An, D., see Fang, X. 514(1990)287
- Anacleto, J. F., see D'Agostino, P. A. 504(1990)259
- Anashkina, A. A., see Balyatinskaya, L. N. 509(1990)107
- Anazawa, A., see Tokuda, T. 530(1990)418
- Anderson, R. A., see Brooks, C. J. W. 514(1990)305
- Anderson, Jr., J. M., see Henderson, I. K. 546(1991)61
- Anderson, Jr., J. M., see Saari-Nordhaus, R. 546(1991)89
- Anderson, Jr., J. M., see Saari-Nordhaus, R. 549(1991)257
- Andersson, H. C., see Blom, H. J. 533(1990)11
- Andersson, L.
Recognition of phosphate groups by immobilized aluminium(III) ions 539(1991)327
- Andersson, L. I., Miyabayashi, A., O'Shannessy, D. J. and Mosbach, K.
Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Andersson, L. I. and Mosbach, K.
Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313
- Andersson, L. I., O'Shannessy, D. J. and Mosbach, K.
Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167
- Andrade, J. D., see Lin, J.-N. 542(1991)41
- Andreev, V., see Kovacheva, E. 509(1990)79
- Andrés, M. D., Cañas, B., Izquierdo, R. C., Polo, L. M. and Alarcón, P.
Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399
- Andresen, A. T., see Thanh, H. H. 532(1990)363
- Andrew, R., see Midgley, J. M. 527(1990)259
- Andriollo, O., Lartigue-Mattei, C., Chabard, J. L., Galmier, M. J., Bargnoux, H., Petit, J., Berger, J. A. and Pognat, J. F.
Assay of *m*-chlorophenylpiperazine in plasma and brain of rat by capillary gas chromatography-mass spectrometry 533(1990)215
- Ang, H. G., Kwik, W. L. and Leong, W. K.
High-performance liquid chromatography of substituted trinuclear osmium carbonyl clusters, Os₃(CO)_{12-n}[P(C₆F₅)₃]_n (*n* = 0, 1, 2) 537(1991)475
- Angal, S., see Deistung, J. 539(1991)485
- Anisimova, I. A., see Ruban, V. F. 520(1990)307
- Anliker, K. S., see Rudy, A. C. 528(1990)395
- Annable, P. L. and Sly, L. A.
Azide determination in protein samples by ion chromatography 546(1991)325
- Annan, R. S., Kim, C. and Martyn, J.
Measurement of D-tubocurarine chloride in human urine using solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 526(1990)228

- Antia, F. D. and Horváth, C.
Dependence of retention on the organic modifier concentration and multicomponent adsorption behavior in reversed-phase chromatography 550(1991)411
- Antonelli, G., see Giacobbe, S. 548(1991)289
- Antonelli, G., see Miraglia, N. 512(1990)123
- Antonopoulos, C. A., see Karamanos, N. K. 503(1990)421
- Antonozzi, I., see Moretti, F. 511(1990)131
- Anttila, M., see Laakso, S. 526(1990)475
- Anttila, M., see Vuorilehto, L. 530(1990)137
- Antus, S., Bauer, R., Gottsegen, A. and Wagner, H.
Enantiomeric separation of racemic pterocarpanes by high-performance liquid chromatography on (+)-poly (triphenylmethyl methacrylate)-coated silica gel 508(1990)212
- Aoi, K., see Azekawa, T. 530(1990)47
- Aoki, N., see Hamano, T. 541(1991)265
- Aomura, Y., see Ogino, H. 541(1991)75
- Applequist, S., see Hudson, M. K. 513(1990)21
- Apps, P. J.
High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21
- Apps, P. J.
High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271
- Apud, J. A. and Ito, Y.
Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177
- Arakawa, S., see Kojima, K. 525(1990)210
- Arakawa, S., see Kurono, M. 532(1990)175
- Araki, H., see Yoshioka, M. 515(1990)205
- Araki, T., Kuramoto, M. and Torikata, T.
Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183
- Araki, T., see Kimata, K. 515(1990)73
- Araki, T., see Tanaka, N. 535(1990)13
- Araki, T., see Tanaka, N. 544(1991)319
- Araki, T., see Tanaka, N. 549(1991)29
- Araki, Y., see Gomita, Y. 528(1990)509
- Aran, J. M., Canela, E. I. and Franco, R.
Preparative purification of adenosine deaminase from human erythrocytes by affinity chromatography 532(1990)75
- Arancibia, E. L., see Castells, R. C. 504(1990)45
- Arányi, P., see Patthy, M. 523(1990)201
- Arar, E. J. and Pfaff, J. D.
Determination of dissolved hexavalent chromium in industrial wastewater effluents by ion chromatography and post-column derivatization with diphenylcarbazine 546(1991)335
- Arashidani, K., see Yoshikawa, M. 532(1990)155
- Aratskova, A. A., see Hradil, J. 509(1990)369
- Aravagiri, M., Marder, S. R. and Van Putten, T.
Determination of plasma homovanillic acid by column liquid chromatography with electrochemical detection 525(1990)419
- Archambault, J., see Chauret, N. 519(1990)99
- Argoudelis, C. J.
Simpleisocratic high-performance liquid chromatographic method for measuring pyridoxine kinase activity in crude biological extracts 526(1990)25
- Arimoto, H., see Gamoh, K. 515(1990)227
- Armstrong, D. W., Chang, C.-D. and Lee, S. H.
(R)- and (S)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83
- Armstrong, D. W. and Jin, H. L.
Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154
- Armstrong, D. W., see Li, W.-Y. 509(1990)303
- Armstrong, D. W., see Stalcup, A. M. 513(1990)181
- Armstrong, D. W., see Stalcup, A. M. 540(1991)113
- Armstrong, L. G., see Susic, M. 502(1990)443
- Arnason, J. T., see Xie, Y. S. 543(1991)389
- Arnold, F. H., see Wuenschell, G. E. 543(1991)345
- Arora, R., see Batta, A. K. 542(1991)184
- Arrendale, R. F., Stewart, J. T. and Martin, R. M.
Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307
- Arrigoni-Martelli, E., see Bruno, G. 504(1990)319
- Arrigoni Martelli, E., see Marzo, A. 507(1990)235
- Arrigoni Martelli, E., see Marzo, A. 507(1990)241
- Arrigoni Martelli, E., see Marzo, A. 527(1990)247
- Arrigoni Martelli, E., see Marzo, A. 535(1990)255
- Arrigoni Martelli, E., see Marzo, A. 536(1991)327

- Artigot, M., see Ramis, I. 532(1990)217
- Arvidsson, E., Jansson, S. O. and Schill, G.
Chiral separations of atropine and
homatropine on an α_1 -acid glycoprotein-
bonded stationary phase 506(1990)579
- Asada, A., see Abe, J. 526(1990)562
- Asai, S., see Imamura, Y. 526(1990)282
- Asakawa, N., Ohe, H., Tsuno, M., Nezu, Y.,
Yoshida, Y. and Sato, T.
Liquid chromatography-mass spectrometry
system using column-switching techniques
541(1991)231
- Asakawa, N., see Miwa, T. 511(1990)89
- Asakawa, N., see Oda, Y. 541(1991)411
- Asami, A., see Takeda, S. 530(1990)447
- Asch, T. L. and Feibush, B.
Novel, highly deactivated reversed-phase for
basic compounds 506(1990)357
- Ash, S., see Rustum, A. M. 514(1990)209
- Ashraf-Khorassani, M., see Shah, S.
505(1990)293
- Asmundsdottir, A. M., see Torsi, G.
518(1990)135
- Asplund, L., see Haglund, P. 507(1990)389
- Assmann, B. and Haas, H. J.
Determination of creatinine-related urinary
uracil excretion in children by high-
performance liquid chromatography
525(1990)277
- Astephen, N. E., see Warren, W. 512(1990)13
- Asunci3n, M., see Escribano, J. 512(1990)255
- Asztemborska, M., see Ochocka, R. J.
543(1991)171
- Asztemborska, M., see Sybilska, D.
543(1991)397
- Atkinson, J., see Xie, Y. S. 543(1991)389
- Atkinson, S. A., see McPhee, M. D. 527(1990)41
- Atkinson, T., see Edwardson, P. A. D.
545(1991)79
- Aubel, M. T., Pesek, J. J. and Guiochon, G.
Characterization of an adamantyl-modified
silica used as a stationary phase in high-
performance liquid chromatography
514(1990)11
- Aubert, M.-C., see Lee, C. R. 539(1991)55
- Auboiron, S., Bauchart, D. and David, L.
Separation and determination of polyether
carboxylic antibiotics from *Streptomyces*
hygroscopicus NRRL B 1865 by thin-layer
chromatography with flame ionization
detection 547(1991)411
- Aucoin, D. P., see Amiss, T. J. 526(1990)375
- Auf der Mauer, A., see McLeod, A. N.
502(1990)325
- August, T. F., see Titus, D. C. 534(1990)87
- Ault, Jr., J. M., see Riley, C. M. 531(1990)295
- Aune, O., see Ellingsen, T. 535(1990)147
- Auriola, S., see Vainiotalo, P. 547(1991)367
- Ausili, A., see Di Muccio, A. 513(1990)333
- Austin, D., Koziol, T., Woolf, E. and Espinosa-
Crouch, G.
Normal-phase high-performance liquid
chromatographic procedure for the
determination of diprafenone in plasma
527(1990)182
- Avgerinos, A. and Malamataris, S.
High-performance liquid chromatographic
determination of niflumic acid in human
plasma and urine 533(1990)271
- Aweeka, F. T., see Hassanzadeh, M. K.
525(1990)133
- Awni, W. M., see Maloney, J. A. 526(1990)487
- Ayyangar, N. R., Bhide, S. R. and Kalkote, U.
R.
Assay of semi-synthetic codeine base with
simultaneous determination of
 α -codeimethine and O⁶-codeine methyl ether
as by-product impurities by high-
performance liquid chromatography
519(1990)250
- Ayyangar, N. R., Biswas, S. S. and Tambe, A. S.
Separation of opium alkaloids by thin-layer
chromatography combined with flame
ionization detection using the peak pyrolysis
method 547(1991)538
- Ayyangar, N. R., Tambe, A. S. and Biswas, S. S.
Crown ethers as stationary phases in gas
chromatography. Comparison between
dibenzo-18-crown-6, dibenzo-24-crown-8 and
dicyclohexano-24-crown-8 with respect to
polarity, selectivity and stability
543(1991)179
- Azekawa, T., Sano, A., Aoi, K., Sei, H. and
Morita, Y.
Concurrent on-line sampling of melatonin in
pineal microdialysates from conscious rat
and its analysis by high-performance liquid
chromatography with electrochemical
detection 530(1990)47
- Azumaya, C. T.
Sensitive liquid chromatographic method for
the determination of hydrochlorothiazide in
human plasma 532(1990)168

B

- Baars, A. M., see Vree, T. B. 526(1990)581
- Baba, S., Akira, K. and Seyama, Y.
Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1
- Baba, S., see Shinohara, Y. 525(1990)93
- Baba, Y. and Kura, G.
Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5
- Baba, Y., Tshako, M. and Yoza, N.
Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103
- Babashak, J. V., see Phillips, T. M. 512(1990)387
- Babják, M., see Gazdag, M. 550(1991)639
- Bächmann, K., see Lohleit, M. 505(1990)227
- Bacolod, M. D. and El Rassi, Z.
High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237
- Badcock, N. R.
Micro-scale method for itraconazole in plasma by reversed-phase high-performance liquid chromatography 525(1990)478
- Badet, J., see Jacquot Dourges, M. A. 526(1990)35
- Baeyens, W., see Xianren, Q. 514(1990)362
- Baeyens, W. R. G., see Lin Ling, B. 502(1990)230
- Baeyens, W. R. G., see Lin Ling, B. 514(1990)189
- Bagheri, H. and Creaser, C. S.
Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography-fluorescence spectrometry 547(1991)345
- Bagnati, R. and Fanelli, R.
Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325
- Bagnati, R., Grazia Castelli, M., Airoidi, L., Paleologo Oriundi, M., Ubaldi, A. and Fanelli, R.
Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267
- Baier, G., Wollensak, G., Mur, E., Redl, B., Stöffler, G. and Göttinger, W.
Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319
- Bailey, A. J., Dutta, P. K., Shanley, M. S. and O'Donovan, G. A.
Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403
- Bailey, B., see Stein, T. A. 507(1990)259
- Bailey, R. and Cassidy, R. M.
Charged surface and mass transfer in dynamic ion exchangers 546(1991)17
- Bailey, R. G., Nursten, H. E. and McDowell, I.
Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115
- Baillet, A., Rakotomanga, S., Ferrier, D. and Pellerin, F.
Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337
- Baillet, A. E., see Taverna, M. 514(1990)70
- Baillet, A. E., see Yagoubi, N. 522(1990)131
- Bailon, P., see Weber, D. V. 510(1990)59
- Bakthavachalam, J., Abdel-Baky, S. and Giese, R. W.
Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447
- Baldacini, O., Green, G. A., Girardot, R., Rihn, B. and Monteil, H.
Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357
- Baldock, G. A., Brodie, R. R., Chasseaud, L. F. and Taylor, T.
Determination of benzydamine and its N-oxide in biological fluids by high-performance liquid chromatography 529(1990)113
- Baldonado, I. P., see Canova-Davis, E. 508(1990)81
- Baldwin, R. P., see Prabhu, S. V. 503(1990)227
- Balhorn, R., see Stacks, P. C. 528(1990)25
- Balis, F. M., see Carpen, M. E. 526(1990)69

- Balis, F. M., see Hawkins, M. E. 532(1990)442
- Balla, J., see Nagy, L. 520(1990)213
- Balla, T., see Patthy, M. 523(1990)201
- Ballesteros, E., Gallego, M. and Valcárcel, M.
Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59
- Balschukat, D. and Kress, E.
Use of column switching for the determination of niacinamide in compound feed 502(1990)79
- Balu, K., see Rustum, A. M. 514(1990)209
- Balyatinskaya, L. N., Anashkina, A. A., Milyaev, Y. F., Kluchnikova, N. V., Garkavaya, N. N. and Svergzuzova, S. V.
Headspace analysis of polar compounds in air 509(1990)107
- Bamberger, Y., see Woolfson-Bartfeld, D. 517(1990)305
- Bamonte, F., see Dionisotti, S. 530(1990)458
- Banghman, S., see Van den Berg, G. A. 550(1991)239
- Banks, M. C., see Huber, R. 529(1990)389
- Banno, K., Matsuoka, M., Horimoto, S. and Kato, J.
Simultaneous determination of pantothenic acid and hopantenic acid in biological samples and natural products by gas chromatography-mass fragmentography 525(1990)255
- Bantjes, A., see Te Booy, M. P. W. M. 503(1990)103
- Bao, Z. and Yang, S. K.
Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245
- Barbaro, A. M., see Biagi, G. L. 504(1990)163
- Barbaro, A. M., see Biagi, G. L. 547(1991)523
- Barbhaya, R. H., see Knupp, C. A. 533(1990)282
- Barbier, C., see Said, R. 530(1990)11
- Barceló, D., see Durand, G. 502(1990)275
- Barcelon, F. S., see Shayman, J. A. 528(1990)143
- Bard, M., see Goss, T. A. 508(1990)279
- Barenton, B., see Straczek, J. 533(1990)35
- Barford, R., see Unruh, J. 519(1990)179
- Bargnoux, H., see Andriollo, O. 533(1990)215
- Bargnoux, H., see Lartigue-Mattei, C. 529(1990)93
- Bargossi, A. M., see Grossi, G. 541(1991)273
- Barinaga, C. J., see Smith, R. D. 516(1990)157
- Barker, S. A., see Long, A. R. 502(1990)87
- Barker, S. A., see Long, A. R. 505(1990)395
- Barlow, R. D., see Parviainen, M. T. 525(1990)193
- Barnhart, E. R., see Terabe, S. 516(1990)23
- Barr, S. W., see Skelly, N. E. 535(1990)199
- Barra, D., see Simmaco, M. 504(1990)129
- Barritault, D., see Jacquot-Dourges, M. A. 510(1990)141
- Barritault, D., see Jacquot Dourges, M. A. 526(1990)35
- Barros, A. M. V., see Gigante, B. 549(1991)217
- Barry, E. F., see Colón, L. A. 513(1990)159
- Barsuhn, K. and Kotarski, S. F.
Ion chromatographic methods for the detection of starch hydrolysis products in ruminal digesta 546(1991)273
- Bartels, R. and Bock, L.
Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53
- Barter, P., see Meyer, B. 540(1991)386
- Barth, T., see Heping, W. 519(1990)244
- Bartha, Á. and Ståhlberg, J.
Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181
- Bartha, A., Vigh, G. and Ståhlberg, J.
Extension of the electrostatic retention model of reversed-phase ion-pair chromatography to include the simultaneous effects of the organic modifier and the pairing ion 506(1990)85
- Bartha, Á., see Schoenmakers, P. J. 550(1991)425
- Bartholdi, C. S., see Gatrone, R. C. 516(1990)395
- Bartle, K. D.
Chromatography/Fourier transform infrared spectroscopy and its applications (by R. White) (Book Review) 522(1990)344
- Bartle, K.D., Clifford, A.A., Jafar, S.A., Kithinji, J.P. and Shilstone, G.F.
Use of chromatographic retention measurements to obtain solubilities in a liquid or supercritical fluid mobile phase 517(1990)459
- Bartle, K. D., see Raynor, M. W. 505(1990)179
- Bartsch, G., see Oefner, P. 516(1990)251
- Basci, N. E., Bozkurt, A., Kayaalp, S. O. and Isimer, A.
Comparison of colorimetric and high-performance liquid chromatographic determination of sulphamethoxazole and acetylsulphamethoxazole 527(1990)174
- Basheer, H. M., see Al-Ammar, A. S. 537(1991)287

- Basiuk, V. A. and Chuiko, A. A.
Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29
- Báthori, M., see Kalász, H. 520(1990)287
- Batsford, S. R., see Gondolf, K. B.
521(1990)325
- Batta, A. K., Salen, G., Arora, R., Shefer, S. and Batta, M.
High-performance liquid chromatographic separation of bile acids and bile alcohols diastereoisomeric at C-25 542(1991)184
- Batta, M., see Batta, A. K. 542(1991)184
- Batten, C.F., see Wentworth, W.E. 517(1990)87
- Bauchart, D., see Auboiron, S. 547(1991)411
- Bauer, H., see Grübler, G. 512(1990)249
- Bauer, J. F., Howard, S. and Schmidt, A.
High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348
- Bauer, R., Breu, W., Wagner, H. and Weigand, W.
Enantiomeric separation of racemic thiosulphinate esters by high-performance liquid chromatography 541(1991)464
- Bauer, R., see Antus, S. 508(1990)212
- Bautz, D. E., Dolan, J. W. and Snyder, L. R.
Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1
- Bautz, D. E., see Dolan, J. W. 541(1991)21
- Bautz, D. E., see Snyder, L. R. 541(1991)35
- Bayer, E., see Albert, K. 544(1991)345
- Bayer, E., see Buszewski, B. 520(1990)237
- Bayer, E., see Ilg, M. 517(1990)263
- Bayer, E., see Lai, G. 540(1991)217
- Bayer, E., see Pfeleiderer, B. 506(1990)343
- Bayer, E. A. and Wilchek, M.
Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3
- Bayloq, D., see Yagoubi, N. 522(1990)131
- Bayloq-Ferrier, D., see Taverna, M.
514(1990)70
- Bayne, W. F., see Kline, W. F. 534(1990)139
- Bayne, W. F., see Matuszewski, B. K.
526(1990)461
- Bayne, W. F., see Titus, D. C. 534(1990)87
- Beach, R. E., see Gayden, R. H. 536(1991)265
- Bean, R. M., see Harvey, S. D. 518(1990)361
- Beaver, L. G., see Danielson, N. D.
544(1991)187
- Becerra, M. R., Fernández-Sánchez, E., Fernández-Torres, A., García-Domínguez, J. A. and Santiuste, J. M.
Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269
- Bechalany, A., Tsantili-Kakoulidou, A., El Tayar, N. and Testa, B.
Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221
- Bechtel, T. P., see MacKichan, J. J.
532(1990)424
- Becker, H., see Gorshkov, A. V. 523(1990)91
- Becker, J. F., see Valentin, J. R. 518(1990)199
- Beckers, J. L. and Everaerts, F. M.
Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. I. Isotachopheresis with two leading ions 508(1990)3
- Beckers, J. L. and Everaerts, F. M.
Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. II. Migration behaviour in capillary zone electrophoresis 508(1990)19
- Beckers, J. L., Everaerts, F. M. and Ackermans, M. T.
Determination of absolute mobilities, pK' values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407
- Beckers, J. L., Everaerts, F. M. and Ackermans, M. T.
Isotachopheresis with electroosmotic flow: open *versus* closed systems 537(1991)429
- Beckers, J. L., see Ackermans, M. T.
545(1991)283
- Beckers, J. L., see Ackermans, M. T.
549(1991)345
- Beckett, R., Hotchin, D. M. and Hart, B. T.
Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435
- Beemer, G. H., see Bjorksten, A. R.
533(1990)241
- Behrens, R., see Taylor, R. B. 527(1990)490
- Beijnen, J. H., see Van Tellingen, O.
529(1990)135
- Beijnen, J. H., see Van Tellingen, O.
529(1990)329
- Beiraghi, A., see Blessington, B. 522(1990)195
- Beissmann, B. and Reisener, H. J.
Isolation and purity determination of a glycoprotein elicitor from wheat stem rust by medium-pressure liquid chromatography 521(1990)187

- Belcher, H. J. C. R., see Dawson, C. M.
534(1990)267
- Belen'kii, B. G., see Ruban, V. F. 520(1990)307
- Beluw, M. and Porath, J.
Immobilized metal ion affinity
chromatography. Effect of solute structure,
ligand density and salt concentration on the
retention of peptides 516(1990)333
- Belfer, A. G., see Dubrova, M. A. 520(1990)169
- Bell, R. G.
Cation analysis of fermentation broth by
high-performance liquid chromatography
utilizing ion interaction 546(1991)251
- Bell-Alden, B., see Phillips, D. J. 536(1991)95
- Belleville, F., see Stráczek, J. 532(1990)237
- Belleville, F., see Stráczek, J. 533(1990)35
- Bellhouse, B. J., see Unarska, M. 519(1990)53
- Belliardo, F., Chiantore, O., Berek, D., Novák, I.
and Lucarelli, C.
Development and use of carbon adsorbents in
the liquid chromatographic separation of
isomers 506(1990)371
- Belliardo, F. and Lucarelli, C.
Micro-scale liquid chromatographic method
for the determination of bamifylline and its
major metabolite in human plasma
535(1990)305
- Belliardo, F., see Lucarelli, C. 511(1990)167
- Below, E., see Thede, R. 520(1990)109
- Beltrand, M.-J., see Dandeu, J.-P. 512(1990)177
- Belyakova, L. D., see Hradil, J. 509(1990)369
- Bemgård, A. and Blomberg, L.
Influence of adsorption at the gas-liquid
interface on the determination of gas
chromatographic retention indices on open-
tubular columns coated with cyanosilicones
502(1990)1
- Bemgård, A., see Beving, H. 532(1990)45
- Bemgård, A. K. and Colmsjö, A. L.
Gas chromatographic methods for the
assessment of binary diffusion coefficients for
compounds in the gas phase 522(1990)277
- Benak, H., see Coenegracht, P. M. J.
550(1991)397
- Benakis, A., see Schopfer, C. 526(1990)223
- Benassi, C. A., Semenzato, A., Zaccaria, F. and
Bettero, A.
High-performance liquid chromatographic
determination of free formaldehyde in
cosmetics preserved with Dowicil 200
502(1990)193
- Benassi, C. A., see Bettero, A. 507(1990)403
- Benchekroun, Y., Desage, M., Ribon, B. and
Brazier, J. L.
Gas chromatographic-mass spectrometric
quantitation of tri-, di- and
monomethylxanthines and uric acids from
hepatocyte incubation media 532(1990)261
- Benedict, C. R., see Gayden, R. H. 536(1991)265
- Beneken Kolmer, E. W. J., see Vree, T. B.
526(1990)119
- Benet, L. Z., see Volland, C. 534(1990)127
- Benkő, S. and Lengyel, J.
Determination of N-(3-nitro-4-quinoline)-
morpholino-4-carboxamide in plasma by
high-performance liquid chromatography
520(1990)379
- Bennett, T. L., see Wiley, D. M. 533(1990)73
- Benowitz, N. L., see Zhang, Y. 525(1990)349
- Bentrop, D., Warren, Jr., F. V., Schmitz, S. and
Bidlingmeyer, B. A.
Analysis of carbamazepine in serum by
liquid chromatography with direct sample
injection and surfactant-containing eluents
535(1990)293
- Benvenuti, S., see Vampa, G. 543(1991)479
- Benzi, L., Cecchetti, P., Ciccarone, A. M., Di
Cianni, G., Iozzi, L. C., Caricato, F. and
Navalesi, R.
Insulin degradation *in vivo*: a high-
performance liquid chromatographic
analysis 534(1990)37
- Berahia, T., see Gaydou, E. M. 549(1991)440
- Berdasco, J. A., see Cutié, S. S. 513(1990)93
- Berdichevsky, A. L. and Neue, U. D.
Nature of the eddy dispersion in packed
beds 535(1990)189
- Berek, D., see Belliardo, F. 506(1990)371
- Beresten, S. F., see Wolfson, A. D. 503(1990)277
- Berezkin, V. G., Gavrichev, V. S. and Voloshina,
N. V.
Chromatographic characteristics of capillary
packed columns with increased pressure
drop 520(1990)91
- Berezkin, V. G., Shukurova, K. N., Alishoev, V.
R., Sorokina, E. Y., Shaligin, F. G. and
Gavrichev, V. S.
Sorbents with cross-linked polysiloxane
phases for gas-liquid chromatography with
packed columns 509(1990)85
- Berezkin, V. G., see Gavrichev, V. S.
509(1990)59
- Berezkina, L. G., Souhodolova, V. I., Melnikova,
S. V. and Saricheva, E. A.
Investigation of phase transitions in the
CaSO₄(s)-H₂O(g) system by
chromatographic methods 520(1990)157
- Berg, B. E., see Greibrokk, T. 505(1990)283
- Berger, A., see Lie Ken Jie, M. S. F.
543(1991)257
- Berger, C. and Perrut, M.
Preparative supercritical fluid
chromatography (Review) 505(1990)37
- Berger, J. A., see Andriollo, O. 533(1990)215
- Berger, J. A., see Lartigue-Mattei, C.
529(1990)93

- Berger, M., see Wagner, J. R. 504(1990)191
- Berger, R. G., see Lie Ken Jie, M. S. F. 543(1991)257
- Berger, T. A. and Deye, J. F.
Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377
- Bergh, J. J., Breytenbach, J. C. and Du Preez, J. L.
High-performance liquid chromatographic analysis of trimethoprim in the presence of its degradation products 513(1990)392
- Berland, Y. F., see Gallice, P. M. 539(1991)449
- Bermejo, J., see Díez, M. A. 508(1990)363
- Bernad, P., see Blanco, C. G. 539(1991)157
- Bernard, D., Moyret, C. and Maurizis, J. C.
Purification on poly(U)-Sephacrose 4B of human breast cancer cell line T-47D DNA polymerases 539(1991)511
- Berndt, W. G., see Ackland, C. E. 540(1991)187
- Bernier, A., see Veeraragavan, K. 541(1991)207
- Berrini, A., Borromeo, V. and Secchi, C.
Purification to homogeneity of bovine prolactin by high-performance ion-exchange chromatography 547(1991)457
- Berry, D. J.
Determination of zonisamide (3-sulphamoylmethyl-1,2-benzisoxazole) in plasma at therapeutic concentrations by high-performance liquid chromatography 534(1990)173
- Berthelot, P., see Vaccher, C. 542(1991)502
- Berthod, A.
Silica: backbone material of liquid chromatographic column packings (Review) 549(1991)1
- Berthod, A.
Practical approach to high-speed counter-current chromatography 550(1991)677
- Berthod, A., Glick, M. and Winefordner, J. D.
Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305
- Berthod, A., see Campiglia, A. D. 508(1990)37
- Bertolaso, A. M., see Montecucchi, P. C. 512(1990)139
- Bertolo, P. L., see Gennaro, M. C. 509(1990)147
- Bertolo, P. L., see Gennaro, M. C. 518(1990)149
- Bertoni, G., Canepari, S., Rotatori, M., Fratarcangeli, R. and Liberti, A.
Evaluation tests and applications of a double-layer tube-type passive sampler 522(1990)285
- Bertrand, O., see Algiman, E. 510(1990)165
- Bertsch, W., see Brill, J. H. 517(1990)95
- Bertucci, C., Domenici, E., Uccello-Barretta, G. and Salvadori, P.
High-performance liquid chromatographic resolution of racemic 1,4-benzodiazepin-2-ones by means of a β -cyclodextrin silica bonded chiral stationary phase 506(1990)617
- Besenfelder, E., see Niebch, G. 534(1990)247
- Besner, J. G., see Varin, F. 529(1990)319
- Bessems, G. J. H., Bours, J., Hofmann, D. and Födisch, H. J.
Molecular mass distribution of water-soluble crystallins from the human foetal lens during development 529(1990)277
- Betnér, I., see Gustavsson, B. 507(1990)67
- Bettero, A., Semenzato, A. and Benassi, C. A.
Reversed-phase high-performance liquid chromatography applied to the direct analysis of untreated heterophasic systems 507(1990)403
- Bettero, A., see Benassi, C. A. 502(1990)193
- Betti, A., Lodi, G. and Coppi, S.
Separation and determination of acidic herbicides on a PRP-I polymeric column 513(1990)219
- Betti, A., see Lodi, G. 545(1991)214
- Betti, M. and Cavalli, S.
Determination of trace elements by ion chromatography. I. Beryllium 538(1991)365
- Betti, M., Giovannoni, G., Onor, M. and Papoff, P.
Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259
- Betto, P., see Lucarelli, C. 511(1990)167
- Betto, P., see Lucarelli, C. 541(1991)285
- Betts, T. J.
Implications of solvent selectivity triangles in assessing stationary phases for gas chromatography 504(1990)186
- Betts, T. J.
Chromatographic evaluation of boldine and associated alkaloids in Boldo 511(1990)373
- Betts, T. J.
Possible value of a liquid crystal stationary phase for the gas chromatographic study of aromatic constituents of essential oils 513(1990)311
- Betts, T. J., Moir, C. M. and Tassone, A. I.
Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335
- Beugeling, T., see Te Booy, M. P. W. M. 503(1990)103
- Beutler, J. A., see Schaufelberger, D. E. 538(1991)87

- Beving, H., Olsson, U., Bemgård, A., Kristensson, J., Palmborg, J. and Sollenberg, J.
High-performance liquid chromatographic analysis of hippuric acid in human blood plasma 532(1990)45
- Beyne, P., Doute, M., Lacour, B., Lederer, F. and Pays, M.
Simple and rapid method for the purification of human apolipoprotein C II by reversed-phase high-performance liquid chromatography 527(1990)140
- Bezard, J., see Maniongui, C. 543(1991)81
- Bézard, J. A., see Semporé, B. G. 547(1991)89
- Bezuidenhout, H. S., see Jones, E. A. 537(1991)277
- Bhalerao, N. V., see Ghatge, B. B. 549(1991)423
- Bhamra, R. K., see Eastwood, R. J. 530(1990)463
- Bhamra, R. K., see Eastwood, R. J. 532(1990)187
- Bhatnagar, M., see Ito, Y. 538(1991)59
- Bhatnagar, M., see Kitazume, E. 538(1991)133
- Bhattacharyya, L. and Brewer, C. F.
Isoelectric focusing studies of concanavalin A and the lentil lectin 502(1990)131
- Bhave, M. R., see Deshpande, M. V. 540(1991)397
- Bhide, S. R., see Ayyangar, N. R. 519(1990)250
- Bhide, S. V., see Sawhney, S. Y. 503(1990)272
- Bhoolia, D. and Manchester, K. L.
Separation of ribosomal subunits on Trisacryl GF 2000 545(1991)196
- Bhushana Rao, K. S. P., see Van Tellingem, O. 529(1990)329
- Biagi, G. L., Barbaro, A. M., Guerra, M. C., Borea, P. A. and Recanatini, M.
Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163
- Biagi, G. L., Guerra, M. C., Barbaro, A. M., Sapone, A. and Recanatini, M.
Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523
- Bianchetti, G., see Guinebault, P. 507(1990)221
- Bianchetti, G., see Guinebault, P. 525(1990)359
- Bianchi, A. P., Varney, M. S. and Phillips, J.
Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413
- Bianchi, F., Rousseaux-Prevost, R., Sautière, P. and Rousseaux, J.
Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123
- Bianchini, J.-P., see Gaydou, E. M. 549(1991)440
- Bianco, O., see Petrarulo, M. 511(1990)223
- Bianco, O., see Petrarulo, M. 532(1990)130
- Bicchi, C. and Pisciotta, A.
Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341
- Bidlingmeyer, B. A., see Bentrup, D. 535(1990)293
- Bidló-Iglóy, M.
Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367
- Bieganowska, M. L., Petruczynik, A. and Gadzikowska, M.
Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403
- Biernat, J. F., see Konieczka, P. 540(1991)449
- Bigelow, J. C., Chrin, L. R., Mathews, L. A. and McCormack, J. J.
High-performance liquid chromatographic analysis of phosphorothioate analogues of oligodeoxynucleotides in biological fluids 533(1990)133
- Bighi, C., see Pietrogrande, M. C. 522(1990)37
- Bilic, N.
Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367
- Bilic, N. and Sieber, R.
Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359
- Billedeau, S. M., Holder, C. L. and Getek, T. A.
High-performance liquid chromatography of the antihistamine pyriline and its N-oxide using electrochemical detection 534(1990)151
- Billiet, H. A. H., see Schoenmakers, P. J. 550(1991)425
- Binder, C., see Linde, S. 548(1991)371
- Binder, F., see Thormann, W. 545(1991)445
- Binder, S. R., Adams, A. K., Regalia, M., Essien, H. and Rosenblum, R.
Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

- Binger, M. and Workman, P.
Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321
- Binnendijk, G. M., Aerts, M. M. L., Keukens, H. J. and Brinkman, U. A. T.
Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin. Stability studies in animal tissues 541(1991)401
- Biondi, P. A., Cecilian, F., Gandini, C. and Lucarelli, C.
Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333
- Birarelli, M., see Moretti, F. 511(1990)131
- Birkenmeier, G., Vijayalakshmi, M. A., Stigbrand, T. and Kopperschlager, G.
Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267
- Birks, J. W., see Aichinger, I. 523(1990)163
- Biro, E., see Nagy, L. 520(1990)213
- Bisswanger, H., see Maas, E. 521(1990)169
- Biswas, M., see Lookabaugh, M. 549(1991)357
- Biswas, S. S., see Ayyangar, N. R. 543(1991)179
- Biswas, S. S., see Ayyangar, N. R. 547(1991)538
- Björk, M., Pettersson, K.-J. and Österlöf, G.
Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229
- Björklund, H. V.
Analysis of oxolinic acid in fish by high-performance liquid chromatography 530(1990)75
- Bjorksten, A. R., Beemer, G. H. and Crankshaw, D. P.
Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241
- Bjørn, S. E., see Vinther, A. 516(1990)175
- Blaas, D., see Widhalm, A. 549(1991)446
- Blackwell, J. A. and Carr, P. W.
Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43
- Blackwell, J. A. and Carr, P. W.
Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59
- Blaffert, T., see Mulholland, M. 550(1991)257
- Blagodatskikh, I. V., see Tennikova, T. B. 509(1990)233
- Blanc, T., see Tran, A. D. 516(1990)241
- Blanchard, J. R. T. and Tasker, R. A. R.
High-performance liquid chromatographic assay for domoic acid in serum of different species 526(1990)546
- Blanchard, M., see Straczek, J. 533(1990)35
- Blanchardie, P., see Denis, M. 508(1990)97
- Blanco, C. G., Blanco, J., Bernad, P. and Guillén, M. D.
Capillary gas chromatographic and combined gas chromatography-mass spectrometric study of the volatile fraction of a coal tar pitch using OV-1701 stationary phase 539(1991)157
- Blanco, C. G., see Diez, M. A. 508(1990)363
- Blanco, J., see Blanco, C. G. 539(1991)157
- Blank, M. L., Cress, E. A., Fitzgerald, V. and Snyder, F.
Thin-layer and high-performance liquid chromatographic separation of glycerolipid subclasses as benzoates. Derivatives of ether and ester analogues of phosphatidylcholine, phosphatidylethanolamine and platelet activating factor 508(1990)382
- Blanz, J., Rosenfeld, C., Proksch, B., Ehninger, G. and Zeller, K.-P.
Quantitation of busulfan in plasma by high-performance liquid chromatography using postcolumn photolysis 532(1990)429
- Blazquez, M. A., Bono, A. and Zafra-Polo, M. C.
Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230
- Blennow, A. and Johansson, G.
Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235
- Blessington, B. and Beiraghi, A.
Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195
- Bloemhoff, W., see Welling, G. W. 512(1990)337
- Bloemhoff, W., see Welling, G. W. 548(1991)235
- Blom, H. J., Andersson, H. C., Krasnewich, D. M. and Gahl, W. A.
Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11
- Blomberg, L., see Berggård, A. 502(1990)1
- Blomberg, L. G., see Demirbükler, M. 550(1991)765

- Boček, P.
 Immobilized pH gradients: theory and methodology (edited by P. G. Righetti) (Book Review) 534(1990)295
- Boček, P., see Dolník, V. 545(1991)249
- Boček, P., see Foret, F. 516(1990)219
- Boček, P., see Křivánková, L. 545(1991)307
- Boček, P., see Sudor, J. 545(1991)331
- Boček, P., see Šustáček, V. 545(1991)239
- Bock, L., see Bartels, R. 523(1990)53
- Böcker, R. H., Preuss, E. and Peter, R.
 High-performance liquid chromatography of the metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206
- Bodenan, S., Paillet, M. and Christen, M. O.
 Rapid determination of xipamide in human plasma and urine by high-performance liquid chromatography 533(1990)275
- Bodor, N., see Prokai, L. 541(1991)469
- Bodor, N., see Prokai, L. 541(1991)474
- Bodzek, D., see Warzecha, L. 509(1990)227
- Boelsterli, U. A., see Bouis, P. 526(1990)447
- Bogaert, M. G., see Rosseel, M. T. 533(1990)224
- Boismenu, R., see Van Oers, N. S. C. 525(1990)59
- Boison, J. O. K. and Tomlinson, R. H.
 New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315
- Boissinot, P., see Subra, P. 543(1991)413
- Bökönyi, G., see Szöke, B. 547(1991)121
- Boller, T., see Kasche, V. 510(1990)149
- Bolzacchini, E., Di Gennaro, P., Di Gregorio, G., Rindone, B., Falagiani, P., Mistrello, G. and Søndergaard, I.
 Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337
- Bolzacchini, E., Di Gennaro, P., Di Gregorio, G., Rindone, B., Falagiani, P., Mistrello, G. and Søndergaard, I.
 Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229
- Bolzacchini, E., see Søndergaard, I. 512(1990)115
- Bolzoni, L., Careri, M. and Mangia, A.
 Characterization of volatile components in apricot purées by gas chromatography-mass spectrometry 518(1990)221
- Bombardt, P. A., Brewer, J. E., Thomas Jr., R. C. and Koets, M. D.
 Simple, rapid and sensitive high-performance liquid chromatographic procedure for the quantitation of itazigrel in human plasma or serum 527(1990)233
- Bonati, M., see Celardo, A. 527(1990)220
- Bondoux, G., see Jackson, P. E. 546(1991)189
- Boniface, P. J., see Tan, S. T. 532(1990)181
- Boniforti, L., see Zuccaro, P. 525(1990)447
- Bonn, G., see Oefner, P. 516(1990)251
- Bonn, G. K., see Wongyai, S. 536(1991)155
- Bonnaud, F., see Nicot, G. 528(1990)258
- Bonnefous, J. L., see Boulieu, R. 528(1990)542
- Bonner, W. A. and Lee, S. Y.
 Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287
- Bonnet, J., see Tordjman, C. 532(1990)135
- Bono, A., see Blazquez, M. A. 518(1990)230
- Bonora, A., see Menziani, E. 511(1990)396
- Bontempelli, G., see De Paoli, M. 547(1991)355
- Bonvini, E., see Brando, C. 529(1990)65
- Boone, L. S., see Kirkland, J. J. 517(1990)377
- Boppana, V. K., Miller-Stein, C., Politowski, J. F. and Rhodes, G. R.
 High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319
- Boppana, V. K. and Rhodes, G. R.
 High-performance liquid chromatographic determination of guanidino compounds by automated pre-column fluorescence derivatization 506(1990)279
- Boppana, V. K. and Rhodes, G. R.
 High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79
- Borbe, H. O., see Niebch, G. 534(1990)247
- Borea, P. A., see Biagi, G. L. 504(1990)163
- Borea, P. A., see Pietrogrande, M. C. 522(1990)37
- Borger, F. R., see Munera, M. E. 536(1991)123
- Borgerding, M. F., see Byrd, G. D. 503(1990)359
- Borgerding, M. F., see Nanni, E. J. 505(1990)365
- Borin, G., see Calderan, A. 548(1991)329
- Borisova, V. N., see Alyoshkin, V. A. 520(1990)425
- Borremans, F., see Van den Eeckhout, E. 541(1991)317
- Borromeo, V., see Berrini, A. 547(1991)457
- Borrull, F., see Marcé, R. M. 542(1991)277
- Borsini, F., see D'Aranno, V. 525(1990)234
- Borst, D. W. and Tsukimura, B.
 Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

- Borstel, B., see Gross, A. S. 525(1990)183
- Bosch, R., see Vree, T. B. 526(1990)119
- Boscher, Y., see Durand, J. P. 509(1990)47
- Boschetti, E., Girot, P. and Guerrier, L.
Silica-dextran sorbent composites and their cleaning in place 523(1990)35
- Boschetti, E., see Girot, P. 510(1990)213
- Boschetti, E., see Hulak, I. 539(1991)355
- Bošnjak, N., Mihalić, Z. and Trinajstić, N.
Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430
- Bossa, F., see Simmaco, M. 504(1990)129
- Böttcher, A., see Josić, D. 516(1990)89
- Bottjen, P. L., see Markin, R. S. 525(1990)464
- Botz, L., see Nyiredy, S. 523(1990)43
- Boudrant, J., see Sentier, L. 547(1991)531
- Bouis, P., Taccard, G. and Boelsterli, U. A.
Determination of cocaine and norcocaine in plasma and cell cultures using high-performance liquid chromatography 526(1990)447
- Boukhabza, A., Lugnier, A. A., Kintz, P., Mangin, P. and Chaumont, A. J.
Simple and sensitive method for monitoring clonazepam in human plasma and urine by high-performance liquid chromatography 529(1990)210
- Boulieu, R., Bonnefous, J. L. and Ferry, S.
Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542
- Boulkanz, L., see Vidal-Madjar, C. 548(1991)81
- Bourell, J., see Frenz, J. 512(1990)299
- Bourin, M., see Thomare, P. 529(1990)494
- Bouriotis, V., see Vlatakis, G. 538(1991)311
- Bourque, A. J. and Krull, I. S.
Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123
- Bourrier, M.-J., see Goiffon, J.-P. 537(1991)101
- Bours, J., see Bessems, G. J. H. 529(1990)277
- Bowker, M. J., see Leigh, P. H. 543(1991)211
- Boyer, G. L., see Speirs, R. J. 537(1991)259
- Bozkurt, A., see Basci, N. E. 527(1990)174
- Braco, L., see Perez-Paya, E. 548(1991)93
- Braco, L., see Perez-Paya, E. 548(1991)351
- Bradová, V., Šmid, F., Ledvinová, J. and Michalec, Č.
Improved one-dimensional thin-layer chromatography for the separation of phospholipids in biological material 533(1990)297
- Bradshaw, J. S., Schirmer, M. M., Juvancz, Z., Markides, K. E. and Lee, M. L.
New polar polysiloxane stationary phases containing cyano, nitrophenyl and 8-quinolinyl units attached to diethylene oxide side groups 540(1991)279
- Bradwin, G. R., see Underwood, R. H. 526(1990)180
- Braendli, E., see Veeraragavan, K. 541(1991)207
- Brage, C. and Sjöström, K.
Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303
- Brandin, S., see Polacek, J. 526(1990)151
- Brando, C., Hoffman, T. and Bonvini, E.
High-performance liquid chromatographic separation of inositol phosphate isomers employing a reversed-phase column and a micellar mobile phase 529(1990)65
- Brandšteterová, E., Lehotay, J., Garaj, J. and Leclercq, P. A.
High-performance liquid chromatographic determination of dibutylidithiocarbamate degradation products in cucumbers and soil 502(1990)214
- Brandšteterová, E., Štubňa, M., Lehotay, J. and Derneschová, D.
High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205
- Brasitus, T. A., see Halline, A. G. 533(1990)187
- Brauchli, J., see Zollinger, M. 532(1990)27
- Brazier, J. L., see Benčekroun, Y. 532(1990)261
- Brazier, J. L., see Scappaticci, B. 534(1990)57
- Brega, A., Prandini, P., Amaglio, C. and Pafumi, E.
Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311
- Breimer, D. D., see Soons, P. A. 528(1990)343
- Breimer, L. T. M., see Vletter, A. A. 530(1990)177
- Brenchley, P. E. C., see Sewell, R. F. 525(1990)246
- Bresson, M., see Rop, P. P. 532(1990)351
- Breu, W., see Bauer, R. 541(1991)464
- Brew, K., see Colilla, F. J. 548(1991)303
- Brewer, C. F., see Bhattacharyya, L. 502(1990)131
- Brewer, J. E., see Bombardt, P. A. 527(1990)233
- Breyer, E. D., see Strasters, J. K. 511(1990)17
- Breyer-Pfaff, U., see Nusser, E. 528(1990)163
- Breytenbach, J. C., see Bergh, J. J. 513(1990)392
- Brice, K. A., see Williams, D. T. 549(1991)297
- Briggs, L. M., see Treado, P. J. 511(1990)341

- Brill, J. H. and Bertsch, W.
Comparison of cuticular hydrocarbon profiles of fire ants *Solenopsis richteri* from the same colony, using capillary column gas chromatography with pattern recognition 517(1990)95
- Brindle, I. D., see Marvin, C. H. 503(1990)167
- Brindle, I. D., see Marvin, C. H. 518(1990)242
- Brinkman, U. A. T., see Binnendijk, G. M. 541(1991)401
- Brinkman, U. A. T., see Hogendoorn, E. A. 511(1990)243
- Brinkman, U. A. T., see Kientz, C. E. 550(1991)461
- Brinkman, U. A. T., see Kwakman, P. J. M. 511(1990)155
- Brinkman, U. A. T., see Marko-Varga, G. 523(1990)173
- Brinkman, U. A. T., see Van der Horst, F. A. L. 507(1990)351
- Brinkman, U. A. T., see Vannoort, R. W. 505(1990)45
- Brinkman, U. A. T., see Veltkamp, A. C. 508(1990)301
- Bristow, P. A.
Towards a chromatographic quantitor 506(1990)265
- Brodie, R. R., see Baldock, G. A. 529(1990)113
- Brodie, R. R., see Morris, G. R. 530(1990)377
- Brondz, I. and Carlsson, J.
Cellular fatty acids of *Bacteroides forsythus* 533(1990)141
- Brondz, I. and Olsen, I.
Fatty acid contents of the yeast and mycelial phase of *Candida albicans* 533(1990)152
- Bronnenmeier, K., Ebenbichler, C. and Staudenbauer, W. L.
Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoarium* 521(1990)301
- Bronnimann, C. E., see Shreedhara Murthy, R. S. 542(1991)205
- Bronzetti, M., see Bruno, G. 504(1990)319
- Brooks, C. J. W., Cole, W. J. and Anderson, R. A.
Analytical gas chromatographic separations of diastereomeric *tert*-butylmethoxyphenylsilyl ethers 514(1990)305
- Brooks, P. W., see D'Agostino, P. A. 504(1990)259
- Brooks, P. W., see D'Agostino, P. A. 541(1991)121
- Brorson, T., see Dalene, M. 516(1990)405
- Bros, A., see Sinniger, V. 539(1991)289
- Brown, D. M., see Agrawal, S. 509(1990)396
- Brown, D. M., see Pietrzyk, D. J. 546(1991)101
- Brown, E. M. and Dower, H. J.
Characterization of apolipoproteins from chicken plasma 512(1990)203
- Brown, P. R., see Amari, J. V. 517(1990)219
- Brown, P. R., see Jang, N.-I. 550(1991)507
- Brown, R. R., see Crawmer, B. P. 530(1990)407
- Browne, T. R., see Szabo, G. K. 535(1990)271
- Browne, T. R., see Szabo, G. K. 535(1990)279
- Browning, S., see Kandiko, C. T. 528(1990)208
- Brownlee, R. G., Sunzeri, F. J. and Busch, M. P.
Application of capillary DNA chromatography to detect AIDS virus (HIV-1) DNA in blood 533(1990)87
- Brubaker, W. F., see Kuwahara, S. K. 534(1990)260
- Bruchelt, G., Buedenbender, M., Schmidt, K.-H., Jopski, B., Treuner, J. and Niethammer, D.
Isotachophoretic determination of 2-5A phosphodiesterase 545(1991)407
- Brückner, H. and Langer, M.
Gas chromatographic separation of diastereomeric esters of α -alkyl- α -amino acids on dimethylpolysiloxane 521(1990)109
- Brückner, H. and Langer, M.
Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161
- Bruin, G. J. M., Tock, P. P. H., Kraak, J. C. and Poppe, H.
Electrically driven open-tubular liquid chromatography 517(1990)557
- Bruins, C. H. P., see Coenegracht, P. M. J. 550(1991)397
- Brun, M., see Goiffon, J.-P. 537(1991)101
- Brun, P., De Galateo, A., Camporese, A., Cortivo, R. and Abatangelo, G.
Analysis of hyaluronic acid in synovial fluid by reversed-phase liquid chromatography 526(1990)530
- Brun, S., see Larroque, M. 525(1990)249
- Brune, K., see Menzel-Soglowek, S. 532(1990)295
- Brune, K., see Moeller, N. 530(1990)200
- Bruner, F., Crescentini, G., Mangani, F. and Lattanzi, L.
Capillary gas chromatography with graphitized carbon black 517(1990)123
- Bruning, P. F., see Van Tellingen, O. 529(1990)135
- Brunner, G., see Tsikas, D. 545(1991)375
- Brunner, J., see Jungbauer, A. 512(1990)157
- Bruno, A., see Pietta, P. G. 547(1991)439
- Bruno, G., Gasparrini, F., Misiti, D., Arrigoni-Martelli, E. and Bronzetti, M.
High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

- Bruno, G., see Marzo, A. 535(1990)255
Bruno, G., see Marzo, A. 536(1991)327
Bruno, T. J., see Martire, D. E. 545(1991)135
Bruns, A.
Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75
Bruns, M. B., see Lakings, D. B. 526(1990)273
Bruns, R. E., see Faigle, J. F. 539(1991)123
Buchacher, A., see Jungbauer, A. 512(1990)157
Buchanan, D. N., Muenzer, J. and Thoene, J. G.
Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1
Buchberger, W., Haddad, P. R. and Alexander, P. W.
Determination of free nitrilotriacetic acid in environmental water samples by ion chromatography with potentiometric and amperometric detection with a copper electrode 546(1991)311
Buck, C., see Powell, M. L. 529(1990)237
Buck, R. H., Cholewinski, M. and Maxl, F.
Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335
Buckley, J. J. and Wetlaufer, D. B.
Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99
Budovich, V. L., see Adamia, T. V. 540(1991)441
Budzianowski, J.
Separation of flavonoid glucosides from their galactosidic analogues by thin-layer chromatography 540(1991)469
Budzynski, A. Z., see Swadesh, J. K. 502(1990)359
Buedenbender, M., see Bruchelt, G. 545(1991)407
Bugaut, M., see Maniongui, C. 543(1991)81
Bulbena, O., see Ramis, I. 532(1990)217
Bullen, W. W., Chang, T. and Whitfield, L. R.
High-performance liquid chromatographic assay for trimetrexate in human plasma 526(1990)266
Bult, A., see Van der Horst, F. A. L. 507(1990)351
Bünger, H., Meister, A. and Otto, M.
Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383
Burbage, R., see Paul, B. D. 529(1990)103
Burger, B. V., Munro, Z., Smit, D., Schmidt, U., Wu, C.-L. and Tien, F.-C.
Sample introduction in gas chromatography: simple method for the solventless introduction of crude samples of biological origin 518(1990)207
Burger, K., see Péter, A. 507(1990)59
Burgers, I., see Hordijk, C. A. 511(1990)317
Burghardt, C., see Janero, D. R. 526(1990)11
Burgi, D. S., see Salomon, K. 549(1991)375
Bürgy, H. and Calzaferri, G.
Separation of the oligomeric silsesquioxanes (HSiO_{3/2})₈₋₁₈ by size-exclusion chromatography 507(1990)481
Buri, J., see Tomek, W. 521(1990)221
Burini, G. and Damiani, P.
Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection 543(1991)69
Burke, K. A., see Kriil, M. B. 522(1990)227
Burm, A. G. L., see Vletter, A. A. 530(1990)177
Burns, G. P., see Stein, T. A. 507(1990)259
Burr, C. M., see Smith, R. M. 550(1991)335
Burrows, J. L. and Coppin, F. G.
Determination of tenilsetam in human plasma and urine by high-performance liquid chromatography 529(1990)486
Burse, J., see Górski, T. 509(1990)383
Burt, H. M., see Walisser, J. A. 518(1990)179
Burton, L. C., Loftus, N. J., Vere, D. W. and Whelpton, R.
Determination of plasma nefopam by liquid chromatography and electrochemical detection 526(1990)159
Burton, S. J., Stead, C. V. and Lowe, C. R.
Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
Buryan, P., Nabivach, V. M. and Dmitrikov, V. P.
Structure-retention correlations of isomeric alkylphenols in gas-liquid chromatography 509(1990)3
Bus, C. A., see Norwood, D. L. 527(1990)289
Busch, M. P., see Brownlee, R. G. 533(1990)87
Buse, G., see Steffens, G. C. M. 521(1990)291
Bush, E., see Hale, R. C. 539(1991)149
Bush, L. P., see Fannin, F. F. 503(1990)288
Bush, S. G. and Jorgenson, J. W.
Confirmation and application of transmission near infrared absorption technique for absolute quantitation of functional groups on silica gel 503(1990)69

- Busnelli, V., see Farina, M. 507(1990)171
- Bussiere, J. L., see Lartigue-Mattei, C. 529(1990)93
- Buszewski, B.
Properties and biomedical applications of packings with high-density coverage of C₁₈ chemically bonded phase for high-performance liquid chromatography and solid-phase extraction 538(1991)293
- Buszewski, B., Hummel, M. and Bayer, E.
Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237
- Butkiewicz, K., see Cendrowska, I. 509(1990)195
- Buydens, L., see Mulholland, M. 550(1991)257
- Buzanowski, W. C., see Cutié, S. S. 513(1990)93
- Buzzigoli, G., Lanzone, L., Ciociaro, D., Frascerra, S., Cerri, M., Scandroglio, A., Coldani, R. and Ferrannini, E.
Characterization of a reversed-phase high-performance liquid chromatographic system for the determination of blood amino acids 507(1990)85
- Byerley, T. J., see Fanska, C. B. 537(1991)357
- Bykova, T. O., see Eremeeva, T. E. 522(1990)67
- Byrd, G. D., Fowler, K. W., Hicks, R. D., Lovette, M. E. and Borgerding, M. F.
Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359
- C**
- Cabras, P., Meloni, M. and Spanedda, L.
High-performance liquid chromatographic separation of cyromazine and its metabolite melamine 505(1990)413
- Cabras, P., Plumitallo, A. and Spanedda, L.
High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406
- Cacace, M. G., Santin, M. and Sada, A.
Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41
- Caccialanza, G., see Gandini, C. 540(1991)416
- Cachia, C., Flamion, P.-J. and Schreiber, J.-P.
Purification of *E. coli* 30S ribosomal proteins by high-performance liquid chromatography under non-denaturing conditions 539(1991)343
- Cacia, J., see Wu, S.-L. 516(1990)115
- Cadet, J., see Polverelli, M. 539(1991)373
- Cadet, J., see Wagner, J. R. 504(1990)191
- Cahard, C., Rop, P. P., Conquy, T. and Viala, A.
High-performance liquid chromatographic analysis of haloperidol and hydroxyhaloperidol in plasma after solid-phase extraction 532(1990)193
- Cahnmann, H. J., Gonçalves, E., Ito, Y., Fales, H. M. and Sokoloski, E. A.
Synthesis and characterization of N-bromoacetyl-3,3',5-triiodo-L-thyronine 538(1991)165
- Calabrò, G., see Micali, G. 514(1990)317
- Caldarini, R., see Montecucchi, P. C. 512(1990)139
- Calderan, A., Ruzza, P., Marin, O., Secchieri, M., Borin, G. and Marchiori, F.
Separation of acidic peptides by reversed-phase ion-pair chromatography. Analytical application to a series of acidic substrates of casein kinases 548(1991)329
- Caldwell, G. W., Masucci, J. A. and Jones, W. J.
Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377
- Caldwell, K. D., see Li, J. 517(1990)361
- Calemma, V., see Rausa, R. 541(1991)419
- Callaway, J. E., see Patel, A. 510(1990)83
- Calull, M., see Marcé, R. M. 542(1991)277
- Calvino, R., Fruttero, R. and Gasco, A.
Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167
- Calvo, M., see Ena, J. M. 525(1990)442
- Calzaferri, G., see Bürgy, H. 507(1990)481
- Camacho, P. L., Geiger, E., Vigh, G., Webster, R. and Thompson, D. H.
Separation of the enantiomeric intermediates of some platelet-activating factor analogues on a naphthylalanine-type Pirkle column 506(1990)611
- Camenzind, R., see Karlaganis, G. 549(1991)229
- Camilleri, P. and Dyke, C.
Effect of ²H₂O on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277

- Camilleri, P., Dyke, C. A., Eckers, C. and Shaw, A. N.
Chromatographic separation of β -substituted 3-(3,4-dihydroxyphenyl)alanine derivatives 523(1990)300
- Camilleri, P., Murphy, J. A. and Thorpe, C.
Direct chromatographic separation of the enantiomers of oxiracetam 508(1990)208
- Camilleri, P. and Okafo, G.
Capillary electrophoresis in [^2H]water solution 541(1991)489
- Camilleri, P. and Thorpe, C. J.
Fluorescence detection of the enantiomers of halofantrine at picomole levels using chiral high-performance liquid chromatography 519(1990)387
- Camilleri, P., see Okafo, G. N. 547(1991)551
- Camilleri, P., see Okafo, G. N. 549(1991)404
- Cammann, K. and Kleiböhmer, W.
Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267
- Camoin, L., see Dandeu, J. P. 539(1991)475
- Campbell, D. L., Carson, S. and Van Bramer, D.
Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381
- Campbell, D. L., Stillian, J., Carson, S., Joyce, R. and Heberling, S.
Separation and detection of group I and II cations by ion chromatography 546(1991)229
- Campiglia, A. D., Berthod, A. and Winefordner, J. D.
Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37
- Camporese, A., see Brun, P. 526(1990)530
- Campos, A., see Perez-Paya, E. 548(1991)93
- Camps, F., Coll, J., Pilar Marco, M. and Tomás, J.
Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199
- Cañas, B., see Andrés, M. D. 507(1990)399
- Candela, M. E., see Almela, L. 502(1990)95
- Candito, M., Krstulovic, A. M., Sbirazzuoli, V. and Chambon, P.
Proposal for the standardization of the calibration method for the assay of plasma catecholamines 526(1990)194
- Canela, E. I., see Aran, J. M. 532(1990)75
- Canepari, S., see Bertoni, G. 522(1990)285
- Canjura, F. L., see Van Breemen, R. B. 542(1991)373
- Cannell, H., see Whelpton, R. 526(1990)215
- Cann-Moisan, C., Caroff, J. and Girin, E.
Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438
- Canova-Davis, E., Baldonado, I. P. and Teshima, G. M.
Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81
- Cantafora, A., Cardelli, M. and Masella, R.
Separation and determination of molecular species of phosphatidylcholine in biological samples by high-performance liquid chromatography 507(1990)339
- Capangpangan, M. B., see Schnable, J. G. 549(1991)335
- Capdepuy, M., see Fourche, J. 532(1990)209
- Caponecchi, G., see Ossicini, L. 547(1991)283
- Cappenberg, T. E., see Hordijk, C. A. 511(1990)317
- Cappiello, P. E. and Kling, G. J.
Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197
- Cardace, G., see Marzo, A. 527(1990)247
- Cardelli, M., see Cantafora, A. 507(1990)339
- Cardellina, II, J. H., see West, R. R. 539(1991)15
- Cardinali, C., see Viscomi, G. C. 549(1991)175
- Carducci, C., see Moretti, F. 511(1990)131
- Careri, M., see Bolzoni, L. 518(1990)221
- Carfagnini, G., Di Corcia, A., Marchetti, M. and Samperi, R.
Antidepressants in serum determined by isolation with two on-line sorbent cartridges and liquid chromatography 530(1990)359
- Caricato, F., see Benzi, L. 534(1990)37
- Carini, M., see Pietta, P. 537(1991)449
- Carli, G., see Tagliaro, F. 507(1990)253
- Carlson, Å. and Gyllenhaal, O.
Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333
- Carlsson, A., see Tyrefors, N. 502(1990)337
- Carlsson, J., see Brondz, I. 533(1990)141
- Carlucci, G.
High-performance liquid chromatographic assay for nizatidine, a new H_2 blocker, in human plasma and urine using disposable solid-phase extraction columns 525(1990)490

- Carmichael, W. W., see Meriluoto, J. A. O. 509(1990)390
- Carne, S., see Deistung, J. 539(1991)485
- Carner, R. C., see Carvajal, M. 511(1990)379
- Carnevali, O., see Wallace, R. A. 519(1990)75
- Caroff, J., see Cann-Moisán, C. 532(1990)438
- Carpen, M. E., Poplack, D. G., Pizzo, P. A. and Balis, F. M.
High-performance liquid chromatographic method for analysis of 2',3'-dideoxyinosine in human body fluids 526(1990)69
- Carr, P. W., see Blackwell, J. A. 549(1991)43
- Carr, P. W., see Blackwell, J. A. 549(1991)59
- Carr, P. W., see Li, J. 517(1990)103
- Carr, P. W., see Li, J. 550(1991)101
- Carr, P. W., see Park, J. H. 513(1990)107
- Carr, P. W., see Weber, T. P. 519(1990)31
- Carrasquer, A. M., Casals, I. and Alegre, L.
Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459
- Carretero, J. M., see Alonso-Silva, I. J. 507(1990)293
- Carrott, P. J. M. and Sing, K. S. W.
Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53
- Carson, S., see Campbell, D. L. 546(1991)229
- Carson, S., see Campbell, D. L. 546(1991)381
- Carter, A. J. and Müller, R. E.
Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31
- Cartoni, G. P., Coccioli, F., Pontelli, L. and Quattrucci, E.
Separation and identification of free phenolic acids in wines by high-performance liquid chromatography 537(1991)93
- Carvajal, M., Mulholland, F. and Carner, R. C.
Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B₁ in raw ground unskinned peanuts 511(1990)379
- Casals, I., see Carrasquer, A. M. 503(1990)459
- Cashman, J. R. and Yang, Z.-C.
Analysis of amine metabolites by high-performance liquid chromatography on silica gel with a non-aqueous ionic eluent 532(1990)405
- Caslavská, J., Gebauer, P., Odermatt, A. and Thormann, W.
Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315
- Cassidy, R. M., see Bailey, R. 546(1991)17
- Castañeda-Hernández, G., see Flores-Murrieta, F. J. 528(1990)501
- Castellanos, M. A., see Afonso, D. 528(1990)101
- Castello, G., D'Amato, G. and Nicchia, M.
Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99
- Castello, G., Timossi, A. and Gerbino, T. C.
Analysis of haloalkanes on wide-bore capillary columns of different polarity connected in series 522(1990)329
- Castello, G., see Gerbino, T. C. 537(1991)305
- Castells, J., see Velasco, D. 519(1990)228
- Castells, R. C., Arancibia, E. L. and Nardillo, A. M.
Regression against temperature of gas chromatographic retention data 504(1990)45
- Castillo, H., see Ena, J. M. 525(1990)442
- Castledine, J. B., see Fell, A. F. 535(1990)33
- Cataldo, D. A., see Harvey, S. D. 518(1990)361
- Catilina, M. J., see Lartigue-Mattei, C. 529(1990)93
- Catilina, P., see Lartigue-Mattei, C. 529(1990)93
- Catterall, C., see Deistung, J. 539(1991)485
- Caude, M., Tambuté, A. and Siret, L.
Chiral stationary phases derived from tyrosine (Review) 550(1991)357
- Caude, M., see Janicot, J. L. 505(1990)247
- Caude, M., see Siret, L. 540(1991)129
- Caude, M., see Tambuté, A. 541(1991)349
- Cava, M., see Phillips, D. J. 536(1991)95
- Cavalli, S., see Betti, M. 538(1991)365
- Cavazzutti, G., see Gagliardi, L. 508(1990)252
- Cavrini, V., see Gatti, R. 507(1990)451
- Cebrian, M., see Ladrón de Guevara, O. 528(1990)35
- Cecchetti, P., see Benzi, L. 534(1990)37
- Cecchini, D. C., see Al-Deen, A. N. 512(1990)409
- Ceccon, L.
Quantitative determination of free volatile fatty acids from dairy products on a Nukol capillary column 519(1990)369
- Cecilian, F., see Biondi, P. A. 507(1990)333
- Celardo, A. and Bonati, M.
Determination of thiopental measured in human blood by reversed-phase high-performance liquid chromatography 527(1990)220
- Celebuski, J. E., see Morgan, R. L. 536(1991)85
- Cellerino, G. P., see Rizzo, V. 536(1991)229

- Cendrowska, I., Drewnowska, M., Grzeszkiewicz, A. and Butkiewicz, K.
Investigation of the stability of 5-aminosalicylic acid in tablets and suppositories by high-performance liquid chromatography 509(1990)195
- Černay, P., see Lajdová, I. 528(1990)178
- Cerri, M., see Buzzigoli, G. 507(1990)85
- Ceva, P., see Pietta, P. 513(1990)397
- Chabard, J. L., see Andriollo, O. 533(1990)215
- Chabard, J. L., see Lartigue-Mattei, C. 529(1990)93
- Chace, D. H. and Abramson, F. P.
Detection of carbon-14 eluting from a capillary gas chromatograph using chemical reaction interface-mass spectrometry 527(1990)1
- Chadeuf, G., see Toulon, P. 539(1991)493
- Chadha, R. K. and Lawrence, J. F.
Determination of iodide in dairy products and table salt by ion chromatography with electrochemical detection 518(1990)268
- Chalmers, J. M., see Raynor, M. W. 505(1990)179
- Chalom, J., see Tod, M. 542(1991)295
- Chambaz, D., Edder, P. and Haerdi, W.
Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443
- Chamberlain, W. J., Severson, R. F., Chortyk, O. T. and Sisson, V. E.
Determination of solanesol in tobacco by capillary gas chromatography 513(1990)55
- Chambon, P., see Candito, M. 526(1990)194
- Chamkaseem, N., Hill, K. D. and Sewell, G. W.
Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193
- Champluvier, B. and Kula, M.-R.
Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315
- Champney, W. S.
Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Chan, L., see Urech, R. 534(1990)271
- Chandrasekaran, A., see Vetticaden, S. J. 531(1990)215
- Chanev, C., Petsev, N., Topalova, I., Ivanov, S. and Gavrilova, T. B.
Short columns for gas chromatography packed with plasma-modified silica gels 520(1990)33
- Chanev, C., see Gavrilova, T. B. 520(1990)41
- Chang, C. A., Ji, H. and Lin, G.
Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143
- Chang, C.-D., see Armstrong, D. W. 539(1991)83
- Chang, F. C., see Iida, T. 537(1991)345
- Chang, H.-C. K. and Taylor, L. T.
Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491
- Chang, I.-N., see Lin, J.-N. 542(1991)41
- Chang, J., see Geng, X. 507(1990)1
- Chang, J., see Xie, F. 526(1990)109
- Chang, S.-C., see Stalcup, A. M. 513(1990)181
- Chang, S.-C., see Stalcup, A. M. 540(1991)113
- Chang, S.-P., see Hu, O. Y.-P. 532(1990)337
- Chang, T., see Bullen, W. W. 526(1990)266
- Chao, W.-F., Kai, M. and Ohkura, Y.
High-performance liquid chromatographic determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by pre-column fluorescence derivatization 526(1990)77
- Charkhian, B., see Long, A. R. 505(1990)395
- Charleson, S., see Nicoll-Griffith, D. 526(1990)341
- Charrier, J., see Straczek, J. 533(1990)35
- Chase, H. A., see Horstmann, B. J. 516(1990)433
- Chase, H. A., see Skidmore, G. L. 505(1990)329
- Chasseaud, L. F., see Baldock, G. A. 529(1990)113
- Chasseaud, L. F., see Morris, G. R. 530(1990)377
- Chaufer, B., Rollin, M. and Sébille, B.
High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215
- Chaumont, A. J., see Boukhabza, A. 529(1990)210
- Chaumont, A. J., see Kennel, S. 527(1990)169
- Chauret, N., Rho, D. and Archambault, J.
Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99
- Chen, B. H., Yang, S. H. and Han, L. H.
Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147
- Chen, C.-F., see Tsai, T.-H. 542(1991)521

- Chen, C.-Y. and Morris, M. D.
On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355
- Chen, E. C.M., see Wentworth, W.E. 517(1990)87
- Chen, I.-W., Hsieh, J. Y.-K., Lin, J. H. and Duggan, D. E.
High-performance liquid chromatographic determination of cilastatin and its major metabolite N-acetylcilastatin in rat plasma, urine and bile 534(1990)119
- Chen, K.-Y., see Hu, O. Y.-P. 532(1990)337
- Chen, S., see Ahnoff, M. 506(1990)593
- Chen, S.-H., Wu, H.-L., Tanaka, M., Shono, T. and Funazo, K.
Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257
- Chen, S.-T., see Lin, S.-L. 540(1991)392
- Chen, T.-M., see Coutant, J. E. 529(1990)265
- Chen, X., Wijsbeek, J., Van Veen, J., Franke, J. P. and De Zeeuw, R. A.
Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161
- Chen, Y., see Liu, W. 547(1991)509
- Chen, Y. F., see Meng, Q. C. 529(1990)201
- Chen, Y.-H., see Hu, O. Y.-P. 523(1990)321
- Chen, Y.-H., see Oshima, T. 547(1991)175
- Chen, Y.-Y., see Wu, C.-Y. 504(1990)279
- Chen, Z., see Liu, W. 547(1991)509
- Chen, Jr., E. N. and Nero, V. P.
Separation and identification of sulfurized alkylphenols in oil by high-performance liquid chromatography with evaporative light scattering and mass spectrometric detection 549(1991)247
- Chenais, B., Yapo, A., Lepoivre, M. and Tenu, J. P.
High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433
- Cheng, L., Joelsson, M. and Johansson, G.
Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119
- Cheng, L. K., see Greene, S. V. 527(1990)397
- Cheng, M.-C., see Hsu, M.-C. 549(1991)410
- Chenut, A. M., see Straczek, J. 532(1990)237
- Chenut, A. M., see Straczek, J. 533(1990)35
- Chervet, J. P.
Business opportunity report: chromatography—Markets, systems, applications (by R. H. Vermuyten) (Book Review) 504(1990)476
- Chervet, J.-P.
Troubleshooting LC systems: a comprehensive approach to troubleshooting LC equipment and separations (by J.W. Dolan and L. R. Snyder) (Book Review) 539(1991)241
- Chervet, J. P., Van Soest, R. E. J. and Ursem, M.
Z-Shaped flow cell for UV detection in capillary electrophoresis 543(1991)439
- Chervet, J.-P., see Vannoort, R. W. 505(1990)45
- Chesler, S. N., see Munder, A. 521(1990)63
- Chesney, D. J., see Thomson, C. A. 543(1991)187
- Chesson, S. M., see Hsu, R. S. 530(1990)170
- Cheung, A. P. and Kenney, D.
Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119
- Cheung, S.-F., see De Jong, J. 529(1990)359
- Chevalier, A., see Dorbon, M. 509(1990)33
- Cheymol, G., see Poirier, J.-M. 534(1990)223
- Cheyrier, V., see Rigaud, J. 540(1991)401
- Chi, H., Wang, Y.-P., Zhou, T.-H. and Jin, C.-L.
Determination of the anticancer drug bruceoside-A in the Chinese drug Yadanzi (*Brucea javanica* Merr.) 543(1991)250
- Chiancone, E. and Gattoni, M.
Selective extraction of native β -lactoglobulin from whey 539(1991)455
- Chiantore, O., see Belliardo, F. 506(1990)371
- Chiari, M., Ettori, C., Manzocchi, A. and Righetti, P. G.
Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381
- Chiavari, G., see Galletti, G. C. 536(1991)303
- Chiavari, G., see Torsi, G. 518(1990)135
- Chiba, M., see Marvin, C. H. 503(1990)167
- Chiba, M., see Marvin, C. H. 518(1990)242
- Chin, J. R. L.
Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111
- Chiou, S.-H., see Lo, C.-H. 530(1990)129
- Chiou, W. L., see Peng, G. W. 531(1990)3
- Chmelik, J.
Isoelectric focusing field-flow fractionation. Experimental study of the generation of pH gradient 539(1991)111

- Chmelik, J.
Isoelectric focusing field-flow fractionation.
II. Experimental study of focusing of methyl red in the trapezoidal cross-section channel 545(1991)349
- Choi, C. Y. C., see Lie Ken Jie, M. S. F. 543(1991)257
- Cholewinski, M., see Buck, R. H. 548(1991)335
- Chong, N. C., see Ong, C. P. 516(1990)263
- Chong, P., Jackson, G., Cwyk, W. and Klein, M. Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227
- Chortyk, O. T., see Chamberlain, W. J. 513(1990)55
- Chou, T.-H., see Wu, S.-H. 514(1990)325
- Choudhury, S., Karara, A. H., Ace, L. N. and McFarland, V. A.
High-performance liquid chromatographic method for the determination of 3-methylcholanthrene in channel catfish plasma 534(1990)208
- Chow, D., see Lau, S. W. J. 526(1990)87
- Chrétien, J. R., see Righezza, M. 544(1991)393
- Chrin, L. R., see Bigelow, J. C. 533(1990)133
- Christ, B., see Molnar, I. 550(1991)39
- Christen, M. O., see Bodenar, S. 533(1990)275
- Christensen, D. A., see Lin, J.-N. 542(1991)41
- Christensen, S. and Harbak, H.
Serial separation of inositol phosphates including pentakis- and hexakisphosphates on small anion-exchange columns 533(1990)201
- Christie, W. W., see Wretensjö, I. 521(1990)89
- Christophersen, A. S., see Johansen, M. 532(1990)277
- Chu, D. Z. J., see Kuo, K.-W. 543(1991)463
- Chuang, C.-Z., Ragan, Jr., F. A. and Prasad, C.
Optimization of conditions for the simultaneous separation of ten tryptophan metabolites using reversed-phase high-performance liquid chromatography 534(1990)13
- Chui, S. H., Lam, C. W. K., Lewis, W. H. P. and Lai, K. N.
High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219
- Chuiko, A. A., see Basiuk, V. A. 521(1990)29
- Churáček, J., see Jandera, P. 504(1990)297
- Churchill, F. C., see Mount, D. L. 527(1990)51
- Churchill, F. C., see Wages, S. A. 527(1990)115
- Churms, S. C. and Stephen, A. M.
Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519
- Chyr, R. and Shiao, M.-S.
Liquid chromatographic characterization of the triterpenoid patterns in *Ganoderma lucidum* and related species 542(1991)327
- Ciambra, C. M., see Karp, S. 504(1990)434
- Ciardelli, T. L., see Ackland, C. E. 540(1991)187
- Ciavatta, C., Govi, M., Vittori Antisari, L. and Sequi, P.
Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141
- Ciccarone, A. M., see Benzi, L. 534(1990)37
- Ciecierska-Stoklosa, D., see Gorczyńska, K. 509(1990)53
- Cinquanta, S., see Pace, M. 539(1991)517
- Ciociaro, D., see Buzzigoli, G. 507(1990)85
- Cipollaro, M., see Nardi, G. 530(1990)122
- Civaroli, P., see Søndergaard, I. 512(1990)115
- Claereboudt, J., see Van den Eeckhout, E. 504(1990)113
- Claereboudt, J., see Van den Eeckhout, E. 541(1991)317
- Claessens, H. A., see Hetem, M. J. J. 540(1991)53
- Claessens, H. A., see Sparidans, R. W. 508(1990)319
- Claeys, M., see Van den Eeckhout, E. 504(1990)113
- Claeys, M., see Van den Eeckhout, E. 541(1991)317
- Clark, B. J., see Marr, J. G. D. 506(1990)289
- Clark, D. B., see Tharakan, J. P. 522(1990)153
- Claus, R., see Schwidop, W.-D. 520(1990)325
- Clifford, A. A., see Bartle, K. D. 517(1990)459
- Clifford, A. A., see Raynor, M. W. 505(1990)179
- Clifford, A. J., see Furr, H. C. 527(1990)406
- Clonis, Y. D. and Lowe, C. R.
Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103
- Cobb, K. A., see Liu, J. 519(1990)189
- Cobon, G. S., see Sharp, P. J. 512(1990)189
- Coccioli, F., see Cartoni, G. P. 537(1991)93
- Cochet, S., see Algiman, E. 510(1990)165
- Codini, M., Palmerini, C. A., Fini, C., Lucarelli, C. and Floridi, A.
High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337

- Codini, M., see Guida, E. 507(1990)51
- Coene, J., see Van den Eeckhout, E. 541(1991)317
- Coenegracht, P. M. J., Smilde, A. K., Benak, H., Bruins, C. H. P., Metting, H. J., De Vries, H. and Doornbos, D. A.
Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography 550(1991)397
- Coetzee, J., see Uebel, R. A. 526(1990)293
- Cohen, A. S., Najarian, D. R. and Karger, B. L.
Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49
- Cohen, A. S., see Heiger, D. N. 516(1990)33
- Cohen, B. L., see Van Oers, N. S. C. 525(1990)59
- Cohen, P., see Klumpp, S. 521(1990)179
- Cohen, S. A.
Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283
- Colafranceschi, C., see Guinebault, P. 507(1990)221
- Coldani, R., see Buzzigoli, G. 507(1990)85
- Cole, D. E. C., see McPhee, M. D. 527(1990)41
- Cole, W. J., see Brooks, C. J. W. 514(1990)305
- Coleman, P. L., Walker, M. M., Milbrath, D. S., Stauffer, D. M., Rasmussen, J. K., Krepski, L. R. and Heilmann, S. M.
Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345
- Colilla, F. J., Yadav, S. P., Brew, K. and Mendez, E.
Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303
- Coll, J., see Camps, F. 514(1990)199
- Collins, B. J., see Górski, T. 509(1990)383
- Collins, I. J., see Edwardson, P. A. D. 545(1991)79
- Colmsjö, A. L., see Bemgård, A. K. 522(1990)277
- Colombo, L., Marcucci, F., Marini, M. G., Pierfederici, P. and Mussini, E.
Determination of ambroxol in biological material by gas chromatography with electron-capture detection 530(1990)141
- Colón, L. A. and Barry, E. F.
Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159
- Conacher, H. B. S., see Ryan, J. J. 541(1991)131
- Concialini, V., see Galletti, G. C. 507(1990)439
- Condado Rodriguez, J. A., see Contreras de Condado, M. C. 530(1990)164
- Conner, M. K., see Mayernik, J. A. 526(1990)407
- Conquy, T., see Cahard, C. 532(1990)193
- Conquy, T., see Rop, P. P. 532(1990)351
- Conrad-Kessel, W., see Wolf, B. A. 509(1990)325
- Constanzer, M. L., see Matuszewski, B. K. 526(1990)461
- Contreras de Condado, M. C., Quintana de Gainzarain, A., Mendoza Mujica, I. and Condado Rodriguez, J. A.
High-performance liquid chromatography of mexiletine in plasma 530(1990)164
- Conway, W. D.
Counter-current chromatography (Review) 538(1991)27
- Conzentino, P., see Eisenberg, E. J. 530(1990)65
- Cook, J. A., see Crawmer, B. P. 530(1990)407
- Cooper, D. A., see Lurie, I. S. 504(1990)391
- Cooper, T., see Kandiko, C. T. 528(1990)208
- Cooper, T. B., see Suckow, R. F. 528(1990)228
- Coppi, S., see Betti, A. 513(1990)219
- Coppin, F. G., see Burrows, J. L. 529(1990)486
- Coquet, B., see Scappaticci, B. 534(1990)57
- Corasaniti, M. T., Strongoli, M. C. and Nisticò, G.
Determination of paraquat in rat brain using ion-pair solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 527(1990)189
- Cordis, G. A. and Das, D. K.
High-performance liquid chromatographic detection of myocardial prostaglandins and thromboxanes 536(1991)309
- Cordis, G. A., see Das, D. K. 536(1991)273
- Cordonnier, P., see Dutot, C. 528(1990)435
- Corio, R., see Lucarelli, C. 515(1990)415
- Cork, C. M., see Rein, J. 545(1991)149
- Cornaglia-Ferraris, P., see Montaldo, P. G. 525(1990)471
- Corradini, C., see Lucarelli, C. 511(1990)167
- Corran, P. H., see Lovell, G. 525(1990)287
- Cortes, H. J., see Gerhart, B. B. 503(1990)377
- Cortinas de Nava, C., see Ladrón de Guevara, O. 528(1990)35
- Cortivo, R., see Brun, P. 526(1990)530
- Corzett, M., see Stacks, P. C. 528(1990)25
- Cosey, A., see Kirschbaum, J. 507(1990)165

- Cosh, D. G., see Hayball, P. J. 528(1990)526
- Cosseddu, D., see Petrarulo, M. 532(1990)130
- Costa-Ferreira, M. and Duarte, J. C.
Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507
- Cotter, R. J., see Simpson, R. C. 536(1991)143
- Courty, J., see Jacquot Dourges, M. A. 526(1990)35
- Coutant, J. E., Chen, T.-M. and Ackermann, B. L.
Interfacing microbore and capillary liquid chromatography to continuous-flow fast atom bombardment mass spectrometry for the analysis of glycopeptides 529(1990)265
- Coutant, J. E., see Lu, Z. 540(1991)199
- Covey, T. R., see Huang, E. 511(1990)257
- Cox, D. J., see Gjerde, D. T. 546(1991)151
- Cox, G. B., see Edwardson, P. A. D. 545(1991)79
- Cox, G. B., see Snyder, L. R. 511(1990)404
- Cox, G. B., see Snyder, L. R. 537(1991)507
- Cox, G. B., see Snyder, L. R. 540(1991)21
- Cox, J. A. and Dabek-Zlotorzynska, E.
High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226
- Cox, R. P., see Juhler, R. K. 508(1990)232
- Cox, R. P., see Thomsen, J. K. 521(1990)53
- Cox, S., see Harmenberg, J. 508(1990)75
- Cox, W. A., see Kandiko, C. T. 528(1990)208
- Coyard, V., see Duprat, F. 540(1991)157
- Crabtree, D. V. and Adler, A. J.
Derivatization of hydroxyeicosatetraenoic acid methyl esters with pentafluorobenzoic anhydride and analysis with supercritical fluid chromatography-chemical ionization mass spectrometry 543(1991)405
- Cragoe, E. J., see Meng, Q. C. 529(1990)201
- Cramer, H., see Rissler, K. 533(1990)179
- Cramer, S. M., see Kim, Y. J. 549(1991)89
- Cramers, C. A., see Hetem, M. J. J. 540(1991)53
- Cramers, C. A., see Janssen, H.-G. 505(1990)19
- Cramers, C. A., see Van Es, A. J. 517(1990)143
- Crane, L. J., see Narayanan, S. R. 503(1990)93
- Crane, L. J., see Shreedhara Murthy, R. S. 542(1991)205
- Crankshaw, D. P., see Bjorksten, A. R. 533(1990)241
- Crawmer, B. P., Cook, J. A. and Brown, R. R.
Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407
- Creaser, C. S., see Bagheri, H. 547(1991)345
- Crescentini, G., see Bruner, F. 517(1990)123
- Cress, E. A., see Blank, M. L. 508(1990)382
- Crevat, A. D., see Gallice, P. M. 539(1991)449
- Crews, T., see Garland, W. A. 539(1991)133
- Crimmins, D. L. and Emerson Holtzer, M.
Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327
- Crimmins, D. L., see Thoma, R. S. 537(1991)153
- Cristalli, A., see Ossicini, L. 547(1991)283
- Crooks, A. J., Lee, J. M., Dowsett, A. B. and Stephenson, J. R.
Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59
- Crothers, D. M., see Maa, Y.-F. 508(1990)61
- Croucher, M. D., see Xu, R. 547(1991)434
- Crouzet, J., see Salles, C. 522(1990)255
- Csató, E., Fülöp, N. and Szabó, G.
Preparation and comparison of a pentafluorophenyl stationary phase for reversed-phase liquid chromatography 511(1990)79
- Cserhádi, T.
Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425
- Cserhádi, T. and Hauck, H. E.
Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45
- Cserhati, T., Szejtli, J. and Szogyi, M.
Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255
- Cserhádi, T. and Szogyi, M.
Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249
- Cserhádi, T., see Valkó, K. 506(1990)35
- Cserhádi, T., see Valkó, K. 550(1991)667
- Cugier, P., see Morgan, D. 502(1990)351
- Cullen, D. C., see Lowe, C. R. 510(1990)347
- Culling-Berglund, A. J., see Newcomb, S. A. 526(1990)47
- Cummings, J., Matheson, L. M. and Smyth, J. F.
Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

- Cummings, L., see Dunn, L. 548(1991)165
 Cundy, K. C., see Eisenberg, E. J. 530(1990)65
 Currò, P., see Micali, G. 514(1990)317
 Cutié, S. S., Buzanowski, W. C. and Berdasco, J. A.
 Fate of superabsorbents in the environment. Analytical techniques 513(1990)93
 Cwyk, W., see Chong, P. 512(1990)227
 Cysewski, P., Jaulmes, A., Lemque, R., Sébille, B., Vidal-Madjar, C. and Jilge, G.
 Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61
 Czejka, E., see Jäger, W. 532(1990)411
 Czejka, M. J., see Jäger, W. 532(1990)411
 Czerwińska-Bil, U., see Gawdzik, B. 509(1990)135
 Czerwinski, W. and Gromotowicz, W.
 Determination of impurities in thionyl chloride by gas chromatography 520(1990)163
 Czok, M. and Guiochon, G.
 Aligned fiber columns for size-exclusion chromatography 506(1990)303
 Czok, M. and Guiochon, G.
 Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography 537(1991)497
 Czok, M., Katti, A. M. and Guiochon, G.
 Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705
- D**
- Daban Haurou, C., Declercq, G., Ramiandrasoa, P. and Millet, J. L.
 Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31
 Dabek-Zlotorzynska, E., see Cox, J. A. 543(1991)226
 DaCunha, A. R., see Stout, S. J. 504(1990)429
 D'Agostino, P. A., Provost, L. R., Anacleto, J. F. and Brooks, P. W.
 Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259
 D'Agostino, P. A., Provost, L. R. and Brooks, P. W.
 Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry 541(1991)121
 Dahl, S. G., see Loennechen, T. 503(1990)205
 Dahlem, A. M., see Meriluoto, J. A. O. 509(1990)390
 Dahlquist, I., see Dalbacke, J. 507(1990)381
 Dahlquist, I., see Dalbacke, J. 541(1991)383
 Dahmen, N., Kordikowski, A. and Schneider, G. M.
 Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169
 Daidakova, I. V., see Gavrilova, T. B. 520(1990)41
 Dalbacke, J. and Dahlquist, I.
 Determination of vitamin B₁₂ in multivitamin-multimineral tablets by high-performance liquid chromatography after solid-phase extraction 541(1991)383
 Dalbacke, J., Dahlquist, I. and Persson, C.
 Determination of warfarin in drinking water by high-performance liquid chromatography after solid-phase extraction 507(1990)381
 Dalene, M., Skarping, G. and Brorson, T.
 Chromatographic determination of amines in biological fluids with special reference to the biological monitoring of isocyanates and amines. IV. Determination of 1,6-hexamethylenediamine in human urine using capillary gas chromatography and selective ion monitoring 516(1990)405
 Dal Fiume, D., see Lorusso, V. 525(1990)401
 Dalla Libera, L.
 Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45
 Dalla Libera, L.
 Determination of 3-methylhistidine in hydrolysed proteins by fluorescamine derivatization and high-performance liquid chromatography 536(1991)283
 Dallas, A. J., see Li, J. 517(1990)103
 Dallas, A. J., see Li, J. 550(1991)101
 Damani, L. A., see Epemolu, R. O. 519(1990)171
 Damani, L. A., see Stevenson, P. J. 533(1990)248

- D'Amato, G., see Castello, G. 521(1990)99
- Damhof, R. A., see Welling, G. W. 512(1990)337
- Damhof, R. A., see Welling, G. W. 548(1991)235
- Damiani, P., see Burini, G. 543(1991)69
- Damm, P., see Lehr, K. H. 526(1990)497
- Damsma, G., see Teelken, A. W. 529(1990)408
- Dandekar, K. A., see Mulvana, D. E. 527(1990)343
- Dandeu, J.-P., Rabillon, J., Beltrand, M.-J., Lux, M., Duval, R. and David, B. Immobilized metal ion affinity chromatography for the purification of *Fel d* I, a cat major allergen, from a house-dust extract 512(1990)177
- Dandeu, J. P., Rabillon, J., Guillaume, J. L., Camoin, L., Lux, M. and David, B. Isolation and purification of cat albumin from cat serum by copper ion affinity chromatography: further analysis of its primary structure 539(1991)475
- Danehower, D. A. and Kelley, W. T. Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431
- Dang, T. T., see Knight, M. 538(1991)141
- Danielson, N. D., Beaver, L. G. and Wangsa, J. Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187
- Danielson, N. D., see Maki, S. A. 542(1991)101
- Danielson, N. D., see Wangsa, J. 514(1990)171
- Danielsson, Å., see Nyberg, F. 548(1991)311
- Dannecker, W., see Schröder, B. 514(1990)241
- Dantigny, P., Wang, Y., Hubble, J. and Howell, J. A. Optimisation of frontal chromatography by partial loading 545(1991)27
- Da Prada, M., see Zürcher, G. 530(1990)253
- D'Aranno, V., Mancinelli, A., Borsini, F., Furio, M. and Meli, A. Determination of nomifensine in rat brain by high-performance liquid chromatography with fluorescence detection 525(1990)234
- Das, D. K., Cordis, G. A., Rao, P. S., Liu, X. and Maity, S. High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273
- Das, D. K., see Cordis, G. A. 536(1991)309
- Das, H. A., see Veltkamp, A. C. 508(1990)301
- Dasgupta, A., Rosenzweig, I. B., Turgeon, J. and Raisys, V. A. Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260
- Dasgupta, P. K., see Strong, D. L. 546(1991)159
- Daško, Ľ. Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267
- Date, Y., see Tsuruta, Y. 502(1990)178
- Daučík, P., see Drdák, M. 504(1990)207
- Davankov, V. A., see Kurganov, A. 506(1990)391
- Davankov, V. A., see Kurganov, A. A. 548(1991)207
- Davidek, J., see Velišek, J. 502(1990)167
- Davey, J. F. and Ersser, R. S. Amino acids analysis of physiological fluids by high-performance liquid chromatography with phenylisothiocyanate derivatization and comparison with ion-exchange chromatography 528(1990)9
- David, B., see Dandeu, J.-P. 512(1990)177
- David, B., see Dandeu, J. P. 539(1991)475
- David, L., see Auboiron, S. 547(1991)411
- Davies, C. L. Chromatography of β -adrenergic blocking agents 531(1990)131
- Davies, J. R., see Hearn, M. W. 512(1990)23
- Davies, N. W. Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1
- Davies, P. A., see Unarska, M. 519(1990)53
- Davis, J. M. Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521
- Davis, J. M., see Oros, F. J. 550(1991)135
- Davis, T. P., see Newcomb, S. A. 526(1990)47
- Davis Huysmans, K., see Mehra, H. C. 508(1990)265
- Davoudi, H., see Szabo, G. K. 535(1990)279
- Dawkins, J. V., Forrest, M. J. and Shepherd, M. J. Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539
- Dawson, C. M., Belcher, H. J. C. R., Rainbow, S. J. and Tickner, T. R. Measurement of 4-hydroxyanisole in serum by direct injection high-performance liquid chromatography 534(1990)267
- Dawson, C. M., see Rainbow, S. J. 527(1990)389
- Dawson, M. and McGee, C. M. Comparison between ethanol and methanol for the reversed-phase high-performance

- liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379
- Dean, M. A., see Torres, M. C. 522(1990)245
- DeAngelis, R., Loebs, P., Maehr, R., Savarese, J. and Welch, R.
High-performance liquid chromatographic analysis of doxacurium, a new long-acting neuromuscular blocker 525(1990)389
- Debaert, M., see Vaccher, C. 542(1991)502
- De Bettignies-Dutz, A., Reznicek, G., Kopp, B. and Jurenitsch, J.
Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299
- De Biase, D., see Simmaco, M. 504(1990)129
- DeBros, F., Okutani, R., Inada, E. and Lawrence, K.
Determination of alcuronium in plasma and urine by high-performance liquid chromatography 529(1990)449
- De Bruijn, E. A., see Tjaden, U. R. 525(1990)141
- De Bruijn, E. A., see Tjaden, U. R. 531(1990)235
- De Bruyn, A., see Van den Eeckhout, E. 504(1990)113
- Debs, J., see Jehl, F. 525(1990)225
- Declaire, M., see Motte, J. C. 507(1990)321
- Declercq, G., see Daban Haurou, C. 547(1991)31
- Decourt, J. P., Mura, P., Papet, Y., Piriou, A. and Reiss, D.
Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography 527(1990)214
- Deege, A., see Hetem, M. J. J. 540(1991)53
- Deeken, R. A., see Pogány, S. A. 508(1990)179
- De Galateo, A., see Brun, P. 526(1990)530
- De Haan, J. W., see Hetem, M. J. J. 540(1991)53
- Deistung, J., Forde, D. M., O'Connell, J. P., Proudfoot, K. A., Eaton, D., Willenbrock, F., Kingaby, R. O., Hughes, B., Angal, S., Catterall, C., Carne, S. and Emtage, J. S.
Purification of a hybrid plasminogen activator protein 539(1991)485
- De Jong, A. P. J. M., see Hogendoorn, E. A. 511(1990)243
- De Jong, G. J.
Advances in Chromatography, Vol. 30, Selectivity and retention in chromatography (edited by J. C. Giddings, E. Grushka and P. R. Brown) (Book Review) 504(1990)469
- De Jong, G. J., see Kientz, C. E. 550(1991)461
- De Jong, G. J., see Kwakman, P. J. M. 511(1990)155
- De Jong, G. J., see Marko-Varga, G. 523(1990)173
- De Jong, G. J., see Vannoort, R. W. 505(1990)45
- De Jong, J., Maessen, P. A., Akkerdaas, A., Cheung, S.-F., Pinedo, H. M. and Van der Vijgh, W. J. F.
Sensitive method for the determination of daunorubicin and all its known metabolites in plasma and heart by high-performance liquid chromatography with fluorescence detection 529(1990)359
- De Jonge, E., see Te Booy, M. P. W. M. 503(1990)103
- De Kok, A., Hiemstra, M. and Vreeker, C. P.
Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459
- De Leenheer, A. P., see Van Liedekerke, B. M. 528(1990)155
- De Leo, J., see Plat, M. 546(1991)347
- De Ligny, C. L., see Tji, T. G. 504(1990)403
- Dell, D., see Heizmann, P. 527(1990)91
- Dellacherie, E., see Hubert, P. 539(1991)297
- Dellacherie, E., see Mathis, R. 538(1991)456
- Dellacherie, J., see Görner, T. 514(1990)309
- De Lorenzi, E., see Gandini, C. 540(1991)416
- Delvordre, P., see Regnault, C. 547(1991)403
- Demchak, R. J. and MacConnell, J. G.
Normal-phase chromatography and post-column colorimetric detection of abamectin-8,9-oxide 511(1990)353
- De Mey, C., see Meineke, I. 526(1990)240
- Deming, S. N.
Multiple-criteria optimization 550(1991)15
- Demirbüker, M. and Blomberg, L. G.
Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765
- Demiroglou, A. and Jennissen, H. P.
Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1
- Deml, M., see Dolnik, V. 545(1991)249
- Deml, M., see Sudor, J. 545(1991)331
- De Mol, J., see Wauters, D. 516(1990)375
- Deng, J., see Zhang, A. 521(1990)128
- Dengler, H. J., see Fischer, I. U. 525(1990)369
- Denis, M., Blanchardie, P., Orsonneau, J.-L. and Lustenberger, P.
One-step 10⁴-fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

- Denoroy, L., see Straczek, J. 533(1990)35
- De Paoli, M., Taccheo-Barbina, M. and Bontempelli, G.
Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355
- DePetriello, P. B., Swift, R. M., Ambroise, C. and Abernethy, D. R.
High-performance liquid chromatographic determination of 3',5'-cyclic adenosine monophosphate in human platelets 527(1990)421
- Deratani, A., see Thuaud, N. 503(1990)453
- Derendorf, H., see Schaefer, H. G. 527(1990)351
- D'Eril, G. M., see Rizzo, V. 536(1991)229
- Derksen, R. J. A. M., see Gorris, L. G. M. 504(1990)421
- Derneschová, D., see Brandšterová, E. 545(1991)205
- Dernovaya, L. I. and Eltekov, Y. A.
Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47
- De Ruyter-Buitenhuis, A. W., see Dikkeschei, L. D. 529(1990)145
- De Ryckel, B., see Van Damme, J.-C. 518(1990)375
- Desage, M., see Benckekroun, Y. 532(1990)261
- Desage, M., see Scappaticci, B. 534(1990)57
- Desbène, P.-L., see Oliveros, L. 543(1991)277
- De Schepper, P. J., see Verbesselt, R. 526(1990)515
- Deshpande, M. V., Dhume, S. T., Vyas, P. R. and Bhave, M. R.
Determination of 5-methylcytosine content of four Cucurbitaceae species using high-performance liquid chromatography 540(1991)397
- Desiderio, D. M., see Liu, D. 530(1990)235
- Desilets, C. P., Rounds, M. A. and Regnier, F. E.
Semipermeable-surface reversed-phase media for high-performance liquid chromatography 544(1991)25
- Desmazières, B., see Oliveros, L. 543(1991)277
- De Temmerman, L., see Wauters, D. 516(1990)375
- Deterding, L. J., see Moseley, M. A. 516(1990)167
- Deutsch, J., Soncrant, T. T., Greig, N. H. and Rapoport, S. I.
Electron-impact ionization detection of scopolamine by gas chromatography-mass spectrometry in rat plasma and brain 528(1990)325
- Devani, M. B., Shishoo, C. J., Shah, S. A., Soni, K. P. and Shah, R. S.
Localization of amino acids on thin-layer chromatograms with acetylacetone-formaldehyde reagent 537(1991)494
- De Vecchi, E., see Fermo, I. 534(1990)23
- De Vries, H., see Coenegracht, P. M. J. 550(1991)397
- De Vries, J. X. and Völker, U.
Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479
- Dewaele, C., see Lin Ling, B. 514(1990)189
- Dewaele, C., see Praet, A. 507(1990)427
- De Wolff, F. A., see Edelbroek, P. M. 530(1990)347
- Deye, J. F., see Berger, T. A. 547(1991)377
- Deyl, Z.
Advances in chromatography, Vol. 29 (edited by J. C. Giddings, E. Grushka and P. R. Brown) (Book Review) 527(1990)502
- Deyl, Z.
Protein purification. Principles, high resolution methods and applications (edited by J.-C. Janson and L. Rydén) (Book Review) 532(1989)207
- Deyl, Z., Miksik, I. and Struzinsky, R.
Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287
- Diez, M. A., Guillén, M. D., Blanco, C. G. and Bermejo, J.
Chromatographic study of methylocyclopentadiene dimers and isodimers and determination of their boiling points 508(1990)363
- De Zeeuw, R. A.
Analytical aspects of drug testing (Chemical Analysis Series, Vol. 100) (edited by D. G. Deutsch) (Book Review) 529(1990)507
- De Zeeuw, R. A., see Chen, X. 529(1990)161
- De Zeeuw, R. A., see Swart, P. J. 528(1990)464
- De Zeeuw, R. A., see Van den Berg, G. A. 550(1991)239
- Dhermy, D., see Algiman, E. 510(1990)165
- Dhume, S. T., see Deshpande, M. V. 540(1991)397
- Diallo, B., see Jaziri, M. 538(1991)227
- Diamond, A. D. and Hsu, J. T.
Correlation of protein partitioning in aqueous polymer two-phase systems 513(1990)137
- Dias, F., see Roman, M. 546(1991)341
- Di Cianni, G., see Benzi, L. 534(1990)37

- Dickinson, C. M.
Improved high-performance liquid chromatographic method for quantitation of ivermectin in whole blood, serum or muscle tissue 528(1990)250
- Dickinson, R. G., see Hooper, W. D. 529(1990)167
- Di Corcia, A. and Marchetti, M.
Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbo-pack cartridge followed by liquid chromatography 541(1991)365
- Di Corcia, A., see Carfagnini, G. 530(1990)359
- Dierickx, P. J.
Selective elution of soluble rat liver glutathione transferases from a glutathione-Sepharose affinity column 530(1990)263
- Dietzel, K., see Moeller, N. 530(1990)200
- Di Gennaro, P., see Bolzacchini, E. 542(1991)337
- Di Gennaro, P., see Bolzacchini, E. 548(1991)229
- Di Gregorio, G., see Bolzacchini, E. 542(1991)337
- Di Gregorio, G., see Bolzacchini, E. 548(1991)229
- Di Gregorio, G., see Søndergaard, I. 512(1990)115
- Dikkeschei, L. D., Wolthers, B. G., De Ruyter-Buitenhuys, A. W., Nagel, G. T., Sleijfer, D. T., Willemse, P. H. B. and Van der Slik, W.
Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145
- DiLeo, E. M., see Hsu, R. S. 530(1990)170
- Di Maso, M., Purdy, W. C. and McClintock, S. A.
Electrochemical detection system for supercritical fluid chromatography 519(1990)256
- Dimov, N. and Matisová, E.
Improved method for prediction of gas chromatographic retention indices of C₉-C₁₂ alkylbenzenes 549(1991)325
- Di Muccio, A., Santilio, A., Dommarco, R., Rizzica, M., Gambetti, L., Ausili, A. and Vergori, F.
Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333
- Ding, W., Veening, H. and Van Effen, R. M.
Determination of guanidino compounds by anion-exchange chromatography and amperometric detection 526(1990)355
- Ding, Y., see Ye, M. 518(1990)238
- Dingler, E., see Lohmann, A. 529(1990)442
- DiNunzio, J. E. and Gadde, R. R.
Determination of sunscreen compounds in topical sunscreen products 519(1990)117
- DiNunzio, J. E., see Kril, M. B. 522(1990)227
- Diomede, L., see Fermo, I. 534(1990)23
- Dion, D. M., O'Connor, K., Phillips, D., Vella, G. J. and Warren, W.
New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127
- Dionisotti, S., Bamonte, F. and Monopoli, A.
High-performance liquid chromatographic assay of dilevalol, a β -adrenoceptor blocker, in rat and human plasma 530(1990)458
- Dios, C. G., see Sánchez-Rasero, F. 538(1991)480
- Diquet, B., see Lacroix, C. 525(1990)240
- Diwan, A. M., see Elias, C. 537(1991)460
- Djalali, M., Gueant, J.-L., Lambert, D., El Kholty, S., Saunier, M. and Nicolas, J.-P.
High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81
- Djordjevic, N. M., Erni, F., Schreiber, B., Lankmayr, E. P., Wegscheider, W. and Jaufmann, L.
Fully automatic high-performance liquid chromatographic optimization 550(1991)27
- Dmitrenko, A. V., Shadrina, N. E., Ivanchev, S. S., Ulinskaya, N. N. and Volkov, A. M.
Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21
- Dmitrikov, V. P., see Buryan, P. 509(1990)3
- Do, D. D., see James, E. A. 542(1991)19
- Do, D. D., see Yu, Q. 538(1991)285
- Do, L. and Raulin, F.
Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65
- Dobarganes, M. C., see Márquez-Ruiz, G. 514(1990)37
- Dobrowolska, G., Muszyńska, G. and Porath, J.
Model studies on iron(III) ion affinity chromatography. Interaction of immobilized metal ions with nucleotides 541(1991)333
- Doehl, J. and Greibrokk, T.
Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

- Doghieri, P., see Piretti, M. V. 514(1990)334
- Doherty, R. M., see Abraham, M. H. 518(1990)329
- Dohi, T., see Sakuma, I. 506(1990)223
- Dolan, J. W., Lommen, D. C. and Snyder, L. R. High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. I. Theory and verification 535(1990)55
- Dolan, J. W., Snyder, L. R. and Bautz, D. E. Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21
- Dolan, J. W., see Bautz, D. E. 541(1991)1
- Dolan, J. W., see Nugent, K. D. 544(1991)3
- Dolan, J. W., see Snyder, L. R. 535(1990)75
- Dolan, J. W., see Snyder, L. R. 540(1991)21
- Dolan, J. W., see Snyder, L. R. 541(1991)35
- Dolcerocca, P., see Duprat, F. 540(1991)157
- Dolnik, V., Deml, M., Gebauer, P. and Boček, P. Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249
- Dolzine, T. W., see Jakubowski, E. M. 528(1990)184
- Dombek, V. Determination of permethrin and tetramethrin by isotachophoretic analysis of hydrolytic products 545(1991)427
- Domen, P. L., Nevens, J. R., Mallia, A. K., Hermanson, G. T. and Klenk, D. C. Site-directed immobilization of proteins 510(1990)293
- Domenici, E., see Bertucci, C. 506(1990)617
- Dominguez, E., see Marko-Varga, G. 506(1990)423
- Dominguez, E., see Marko-Varga, G. 523(1990)173
- Dommarco, R., see Di Muccio, A. 513(1990)333
- Donaldson, M. J. and Adlard, M. W. Analysis of δ -L- α -aminoadipyl-L-cysteinyl-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347
- Dondi, F., see Pietrogrande, M. C. 522(1990)37
- Donnelly, J. R., Munslow, W. D., Grange, A. H., Pettit, T. L., Simmons, R. D. and Sovocool, G. W. Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293
- Donovan, T. J., see Wedzicha, B. L. 505(1990)357
- Doornbos, D. A., see Coenegracht, P. M. J. 550(1991)397
- Dorbon, M. and Chevalier, A. On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33
- Dorbon, M., see Durand, J. P. 509(1990)47
- Döring, C. E., see Estel, D. 520(1990)175
- Dorizzi, R., see Tagliaro, F. 507(1990)253
- Dose, E. V., see Katti, A. M. 540(1991)1
- Douglas, F. L., see Kuwahara, S. K. 534(1990)260
- Douglas, Jr., F. W., see Sapers, G. M. 503(1990)431
- Doute, M., see Beyne, P. 527(1990)140
- Dovi, R., see Roman, M. 546(1991)341
- Dovich, N. J., see Swerdlow, H. 516(1990)61
- Dower, H. J., see Brown, E. M. 512(1990)203
- Dowsett, A. B., see Crooks, A. J. 502(1990)59
- Doyle, E., McDowall, R. D., Murkitt, G. S., Picot, V. S. and Rogers, S. J. Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67
- Doyle, E., see Huber, R. 529(1990)389
- Doyle, E., see Picot, V. S. 527(1990)454
- Doyle, M. J., see Kaffenberger, R. M. 505(1990)349
- Doyle, M. J., see Kaffenberger, R. M. 527(1990)59
- Drake, P. A., see Smith, R. G. 546(1991)139
- Drawert, F., see Fischer, N. 538(1991)193
- Drawert, F., see Nitz, S. 547(1991)516
- Drdák, M., Daučík, P. and Kubaský, J. Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207
- Drdák, M., see Karovičová, J. 509(1990)283
- Drenth, B. F. H., see Swart, P. J. 528(1990)464
- Dreux, M., see Elfakir, C. 513(1990)354
- Dreux, M., see Herbretreau, B. 505(1990)299
- Dreux, M., see Lafosse, M. 505(1990)191
- Drevin, I. and Johansson, B.-L. Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21
- Drevin, I., Larsson, L., Eriksson, I. and Johansson, B.-L. Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137
- Drewnowska, M., see Cendrowska, I. 509(1990)195
- Drijfhout, J. W., see Welling, G. W. 512(1990)337

- Drijfhout, J. W., see Welling, G. W. 548(1991)235
- Drogue, S., Rolet, M.-C., Thiébaud, D. and Rosset, R.
Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91
- Drohan, W. N., see Tharakan, J. P. 522(1990)153
- Drozd, J., Vodáková, Z. and Koupil, P.
Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1
- D'sa, E. D., see Wentworth, W.E. 517(1990)87
- Duarte, J. C., see Costa-Ferreira, M. 539(1991)507
- Dubin, P. L., Kaplan, J. I., Tian, B.-S. and Mehta, M.
Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37
- Dubois, J. P., see Sioufi, A. 531(1990)459
- Dubrova, M. A., Mindlin, L. O., Shchedrina, M. M., Belfer, A. G., Nikitina, M. A. and Rudenko, B. A.
Headspace gas chromatography with open-tubular columns for determining the evaporation rate of essential oils, perfumery compositions and perfumes 520(1990)169
- Ducharme, J., see Varin, F. 529(1990)319
- Duche, J.-C., see Herve, F. 539(1991)405
- Dudek, S., Friebe, S. and Hermann, P.
High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333
- Dudson, P., see Whelpton, R. 526(1990)215
- Duffield, A. M., Wise, S., Keledjian, J. and Suann, C. J.
Identification using solid phase extraction and gas chromatography-mass spectrometry of timolol in equine urine after intravenous administration 518(1990)215
- Duffy, L. K., Reynolds, R. A. and Harrington, J. P.
High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291
- Duffy, P., see Urech, R. 534(1990)271
- Dufourcq, J., see Perez-Paya, E. 548(1991)351
- Dufresne, M., see Jiménez, J. 511(1990)333
- Duggan, D. E., see Chen, I.-W. 534(1990)119
- Duijsters, P. P. E., see Tock, P. P. H. 506(1990)185
- Dumas, M. L., see Schröder, W. 512(1990)213
- Dunn, B. M., see Haky, J. E. 541(1991)303
- Dunn, L., Abouelezz, M., Cummings, L., Navvab, M., Ordunez, C., Siebert, C. J. and Talmadge, K. W.
Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165
- Du Penhoat, C., see Scalbert, A. 502(1990)107
- Duportail, G., see Rastegar, A. 518(1990)157
- Duprat, F., Coyard, V., Dolcerocca, P. and Gassend, R.
Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157
- Du Preez, J. L., see Bergh, J. J. 513(1990)392
- Durand, A., see Rop, P. P. 527(1990)226
- Durand, A., see Rouchouse, A. 506(1990)601
- Durand, G. and Barceló, D.
Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275
- Durand, J. P., Boscher, Y. and Dorbon, M.
On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47
- Dussert, B., see Schnable, J. G. 513(1990)47
- Duteil, X. P., see Girot, P. 510(1990)213
- Duthel, J. M., see Franceschini, A. 541(1991)109
- Dutot, C., Moreau, J., Cordonnier, P., Spreux-Varoquaux, O., Klein, C., Ostrowski, J., Advenier, C., Gärtner, W. and Pays, M.
Determination of the active metabolite of molsidomine in human plasma by reversed-phase high-performance liquid chromatography 528(1990)435
- Dutta, I., Dutta, P. K., Smith, D. W. and O'Donovan, G. A.
High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237
- Dutta, P. K., Hammons, K., Willibey, B. and Haney, M. A.
Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113
- Dutta, P. K., Shanley, M. S. and O'Donovan, G. A.
Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395
- Dutta, P. K., see Bailey, A. J. 512(1990)403

- Dutta, P. K., see Dutta, I. 536(1991)237
 Duval, L., see Scalbert, A. 502(1990)107
 Duval, R., see Dandeu, J.-P. 512(1990)177
 Duwoos, H., see Lacroix, C. 525(1990)240
 Dvořák, M., see Kmošťák, S. 503(1990)260
 Dyke, C., see Camilleri, P. 518(1990)277
 Dyke, C. A., see Camilleri, P. 523(1990)300
 Dyr, J. E., see Fořtová, H. 523(1990)312
 Dzido, T. H. and Soczewiński, E.
 Modification of a horizontal sandwich chamber for thin-layer chromatography 516(1990)461
 Dzido, T. H., Soczewiński, E. and Gudej, J.
 Computer-aided optimization of high-performance liquid chromatographic analysis of flavonoids from some species of the genus *Althaea* 550(1991)71
 Dzido, T. H., see Markowski, W. 523(1990)81
 Dziwiński, E., see Szymanowski, J. 502(1990)407
 Dziwiński, E., see Szymanowski, J. 511(1990)325
 Džurík, R., see Lajdová, I. 528(1990)178
- E**
- Eastwood, R. J., Bhamra, R. K. and Holt, D. W.
 High-performance liquid chromatographic method for the measurement of buflovedil in plasma and serum 532(1990)187
 Eastwood, R. J., Galustian, C., Bhamra, R. K. and Holt, D. W.
 High-performance liquid chromatographic method for the measurement of nifedipine in plasma or serum 530(1990)463
 Eaton, D., see Deistung, J. 539(1991)485
 Ebenbichler, C., see Bronnenmeier, K. 521(1990)301
 Echizen, H., Nakura, M. and Ishizaki, I.
 Rapid and simple high-performance liquid chromatographic determination of saliva antipyrine for routine antipyrine test 526(1990)296
 Echner, H. F., see Grübler, G. 512(1990)249
 Eckers, C., see Camilleri, P. 523(1990)300
 Ecknig, W., see Luffer, D. R. 505(1990)79
 Edder, P., see Chambaz, D. 541(1991)443
 Edebo, A., see Allenmark, S. 532(1990)203

- Edelbroek, P. M., Van Kempen, G. M. J., Hessing, T. J. and De Wolff, F. A.
 Analysis of phenprocoumon and its hydroxylated and conjugated metabolites in human urine by high-performance liquid chromatography after solid-phase extraction 530(1990)347
 Edfort, M. J., see Keswani, S. R. 534(1990)77
 Edlund, P. O., see Johansen, K. 506(1990)471
 Edmonds, C. G., see Smith, R. D. 516(1990)157
 Edwards, C. and Strange, R. N.
 Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185
 Edwardson, P. A. D., Collins, I. J., Scawen, M. D., Atkinson, T., Cox, G. B., Sivakoff, S. and Stout, R. W.
 Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79
 Eftimiadi, C., see Lucarelli, C. 515(1990)415
 Eggers, H., see Heizmann, P. 527(1990)91
 Egloff, M., see Frémont, S. 526(1990)186
 Egly, J.-M., see Moncollin, V. 510(1990)243
 Eguchi, K., see Morita, I. 526(1990)367
 Eguchi, S., Kloosterboer, J. G., Zegers, C. P. G., Schoenmakers, P. J., Tock, P. P. H., Kraak, J. C. and Poppe, H.
 Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301
 Eguchi, S., see Hirokawa, T. 538(1991)413
 Eguchi, T., Miyazaki, H. and Nakayama, F.
 Simultaneous determination of keto and non-keto bile acids in human serum by gas chromatography with selected ion monitoring 525(1990)25
 Ehninger, G., see Blanz, J. 532(1990)429
 Ehwald, R., Heese, P. and Klein, U.
 Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239
 Eiceman, G. A. and Lara, A. S.
 Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273
 Eiceman, G. A., see Lara, A. S. 549(1991)283
 Eichelbaum, M., see Gross, A. S. 525(1990)183
 Eichhold, T. H., see Kaffenberger, R. M. 505(1990)349
 Eichler, J., see Podzimek, Š. 547(1991)195
 Eick, J. D., see Fanska, C. B. 537(1991)357

- Eickhoff, W. M., Liversidge, G. G. and Mutharasan, R.
Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxy)trialanine methyl ester] phosphazenes] 536(1991)255
- Eigendorf, G. K., see Salari, H. 527(1990)303
- Eisenberg, E. J., Conzentino, P., Liversidge, G. G. and Cundy, K. C.
Simultaneous determination of allopurinol and oxypurinol by liquid chromatography using immobilized xanthine oxidase with electrochemical detection 530(1990)65
- Eisenhandler, R., see Titus, D. C. 534(1990)87
- Eisenthal, R., see Mayes, A. G. 539(1991)245
- Eksteen, R., see Katz, E. D. 512(1990)433
- Elchuk, S., see Lucy, C. A. 546(1991)27
- Elfakir, C., Lafosse, M. and Dreux, M.
Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354
- Elfakir, C., see Lafosse, M. 505(1990)191
- El Fallah, M. Z., Golshan-Shirazi, S. and Guiochon, G.
Theoretical study of the effect of a difference in column saturation capacities for the two components of a binary mixture on their elution band profiles and separation in non-linear chromatography 511(1990)1
- El Fallah, M. Z. and Guiochon, G.
Study of the interaction between two overloaded bands injected successively in non-linear chromatography 522(1990)1
- El Fallah, M. Z., see Golshan-Shirazi, S. 541(1991)195
- Elias, C. and Diwan, A. M.
Behaviour of concanavalin A on DEAE-Sephadex and CM-Sephadex 537(1991)460
- El Kholy, S., see Djalali, M. 529(1990)81
- Ellegren, H., see Kågedal, L. 537(1991)17
- Elling, L., see Kula, M.-R. 548(1991)3
- Ellingsen, T., Aune, O., Ugelstad, J. and Hagen, S.
Monosized stationary phases for chromatography 535(1990)147
- Ellingsen, T., see Kulin, L.-I. 514(1990)1
- Ellouali, M., Khamlichi, S., Jozefonvicz, J. and Muller, D.
Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255
- El Rassi, Z., see Bacolod, M. D. 512(1990)237
- El Rassi, Z., see Nashabeh, W. 514(1990)57
- El Rassi, Z., see Nashabeh, W. 536(1991)31
- Elrod, Jr., L., Linton, C. L., Shelat, B. P. and Wong, C. F.
Determination of minor impurities in temafloxacin hydrochloride by high-performance liquid chromatography 519(1990)125
- El-Sayed Metwally, M.
Stability-indicating high-performance liquid chromatographic assay for α -methyl dopa in sustained-release capsules 549(1991)221
- Elshourbagy, N., see Sweeney, P. J. 539(1991)501
- El Tayar, N., see Bechalany, A. 541(1991)221
- El Tayar, N., see Tsai, R.-S. 538(1991)119
- El Tayar, N., see Vallat, P. 504(1990)411
- Eltekov, Y. A., see Dernovaya, L. I. 520(1990)47
- Eltekova, N. A.
Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335
- Elyas, A. A., Goldberg, V. D. and Patsalos, P. N.
Simple and rapid micro-analytical high-performance liquid chromatographic technique for the assay of oxcarbazepine and its primary active metabolite 10-hydroxycarbazepine 528(1990)473
- Emary, W. B., see Simpson, R. C. 536(1991)143
- Embree, L. and McErlane, K. M.
Electrochemical detection of the 3,5-dinitrobenzoyl derivative of digoxin by high-performance liquid chromatography 526(1990)439
- Emerson, C. S., see Neely, F. L. 523(1990)305
- Emerson Holtzer, M., see Crimmins, D. L. 543(1991)327
- Emmer, Å., Jansson, M. and Roeraade, J.
Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544
- Emmert, J., see Werner, G. 525(1990)265
- Emtage, J. S., see Deistung, J. 539(1991)485
- Ena, J. M., Castillo, H., Sánchez, L. and Calvo, M.
Isolation of human lactoferrin by affinity chromatography using insolubilized bovine β -lactoglobulin 525(1990)442
- Engelhardt, H., Klinkner, R. and Schöndorf, G.
Post-column reaction detection and flow injection analysis 535(1990)41
- Engelhardt, H., Löw, H. and Götzing, W.
Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

- Engelhardt, H., see Schmitz, S. J. 544(1991)381
- Engelke, B. F., see Lydon, J. 536(1991)223
- Engelmann, H., see Novick, D. 510(1990)331
- Engelsma, M., Kok, W. T. and Smit, H. C.
Selective determination of trace levels of phenol in river water using electrochemical concentration modulation correlation chromatography 506(1990)201
- Engewald, W. and Maurer, T.
Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3
- Engewald, W., see Maurer, T. 517(1990)77
- Engineer, M. S. and Newman, R. A.
High-performance liquid chromatographic measurement of (*R*)-4-[3-[(2-hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride (LY195448) and its *p*-hydroxy metabolite in human plasma and urine 527(1990)473
- Englert, D., see Tsai, A. M. 504(1990)89
- Engström, B., see Kågedal, L. 537(1991)17
- Enoki, Y., Ohga, Y., Nagano, R. and Matsumura, K.
Efficient method of haemoglobin F enrichment in adult haemolysate for determination of the γ -chain isoforms by high-performance liquid chromatography 533(1990)63
- Enquist, M. and Hermansson, J.
Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271
- Enquist, M. and Hermansson, J.
Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285
- Entelis, S. G., see Gorshkov, A. V. 523(1990)91
- Epemolu, R. O., Singh, S., Hider, R. C. and Damani, L. A.
Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171
- Eppert, G., Liebscher, G. and Stief, C.
Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149
- Eppelen, J. T., see Giegerich, G. 528(1990)79
- Eray, B., see Kurganov, A. 506(1990)391
- Eremeeva, T. E., Bykova, T. O. and Gromov, V. S.
Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67
- Ericsson, Ö., see Hellgren, U. 528(1990)221
- Ericsson, Ö., see Villén, T. 529(1990)309
- Eriksson, B.-M., Persson, B.-A. and Wikström, M.
Determination of urinary vanillylmandelic acid by direct injection and coupled-column chromatography with electrochemical detection 527(1990)11
- Eriksson, B.-M., see Gustafsson, S. 506(1990)75
- Eriksson, I., see Drevin, I. 514(1990)137
- Eriksson, J. E., see Meriluoto, J. A. O. 509(1990)390
- Erlandsson, P., Isaksson, R., Lorentzon, P. and Lindberg, P.
Resolution of the enantiomers of omeprazole and some of its analogues by liquid chromatography on a trisphenylcarbamoylcellulose-based stationary phase. The effect of the enantiomers of omeprazole on gastric glands 532(1990)305
- Ernemann, U., Schirmer, D., Wöber, A., Langmann, P., Warzecha, K., Joeres, R., Klinker, H. and Richter, E.
Gas chromatographic determination of trimethoprim in plasma during high-dose trimethoprim-sulfamethoxazole treatment for *Pneumocystis carinii* pneumonia 528(1990)243
- Erni, F.
Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141
- Erni, F., see Djordjevic, N. M. 550(1991)27
- Erni, F., see Steuer, W. 507(1990)125
- Ernst, W., see Kattner, G. 513(1990)327
- Erskine, W. A. R., see Janicki, P. K. 518(1990)250
- Ersser, R. S., see Davey, J. F. 528(1990)9
- Escalona, J., see Hernandez, L. 502(1990)247
- Escribano, J., Asunción, M., Miguel, J., Lamas, L. and Méndez, E.
Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255
- Esmans, E., see Van den Eeckhout, E. 541(1991)317
- Esmans, E. L., see Van den Eeckhout, E. 504(1990)113

- Esnouf, M. P., see Unarska, M. 519(1990)53
 Espinosa, J., see Ladrón de Guevara, O.
 528(1990)35
 Espinosa-Crouch, G., see Austin, D.
 527(1990)182
 Essien, H., see Binder, S. R. 550(1991)449
 Estel, D., Ohl, J. and Döring, C. E.
 Packed column gas chromatography–
 capillary column gas chromatography–mass
 spectrometry coupling for the qualitative
 characterization of technical products
 520(1990)175
 Esterbauer, H., see Grune, T. 520(1990)411
 Etcheverry, M. F., see Pierron, C. 511(1990)367
 Ethier, D., see Nicoll-Griffith, D. 526(1990)341
 Eto, K., see Gomita, Y. 528(1990)509
 Ettori, C., see Chiari, M. 548(1991)381
 Ettore, L. S.
 Key moments in the evolution of liquid
 chromatography 535(1990)3
 Euerby, M. R.
 Resolution of the neuroexcitatory N-
 methylaspartic acid (2-methylaminosuccinic
 acid) enantiomers by ligand-exchange thin-
 layer chromatography 502(1990)226
 Evans, C. E. and McGuffin, V. L.
 Evaluation of refractive index artifacts in
 liquid chromatographic absorbance
 detection. Extension to non-ideal injection
 and gradient elution 503(1990)127
 Evans, M. B.
 Principles and practice of chromatography
 (by B. Ravindranath) (Book Review)
 503(1990)471
 Evans, M. B.
 Gas chromatography: A practical course (by
 G. Schomburg) (Book Review)
 542(1991)545
 Evans, P. C., see Young, D. 528(1990)385
 Evans, P. D., see Macfarlane, R. G. 532(1990)1
 Evans, P. D., see Macfarlane, R. G. 532(1990)13
 Evans, S. E., see Lowe, C. R. 510(1990)347
 Everaerts, F. M., see Ackermans, M. T.
 545(1991)283
 Everaerts, F. M., see Ackermans, M. T.
 549(1991)345
 Everaerts, F. M., see Beckers, J. L. 508(1990)3
 Everaerts, F. M., see Beckers, J. L. 508(1990)19
 Everaerts, F. M., see Beckers, J. L. 537(1991)407
 Everaerts, F. M., see Beckers, J. L. 537(1991)429
 Everaerts, F. M., see Van de Goor, T. A. A. M.
 545(1991)379
 Everaerts, F. M., see Verheggen, T. P. E. M.
 503(1990)245
 Evers, P., see König, W. A. 503(1990)256
 Evreinov, V. V., see Gorshkov, A. V.
 523(1990)91
 Ewels, B. A., see Ryan, P. A. 550(1991)549

- Excoffier, J.-L., see Alfredson, T. V.
 507(1990)277

F

- Faber, A., see Te Booy, M. P. W. M.
 503(1990)103
 Fábíán, V., Pintér-Szakács, M. and Molnár-Perl,
 I.
 Gas chromatography of tryptophan together
 with other amino acids in hydrochloric acid
 hydrolysates 520(1990)193
 Facino, R. M., see Pietta, P. 537(1991)449
 Fadeev, A. Y., see Staroverov, S. M.
 544(1991)77
 Fagan, D. T., see MacLeod, S. K. 502(1990)236
 Fagan, P. A. and Haddad, P. R.
 Determination of free cyanide in gold
 cyanidation process liquors by ion-
 interaction chromatography with post-
 column derivatization 550(1991)559
 Faigle, J. F., Poppi, R. J., Scarminio, I. S. and
 Bruns, R. E.
 Multi-component principal component
 regression and partial least-squares analyses
 of overlapped chromatographic peaks
 539(1991)123
 Fajardo, D., see Tápanes, R. D. 532(1990)400
 Fakhry, I., see Farthing, D. 534(1990)228
 Falagiani, P., see Bolzacchini, E. 542(1991)337
 Falagiani, P., see Bolzacchini, E. 548(1991)229
 Falagiani, P., see Søndergaard, I. 512(1990)115
 Fales, H. M., see Cahnmann, H. J. 538(1991)165
 Falk, J. L., see Lau, C. E. 532(1990)95
 Fan, X., see Feng, J. 522(1990)57
 Fanali, S.
 Use of cyclodextrins in capillary zone
 electrophoresis. Resolution of terbutaline
 and propranolol enantiomers 545(1991)437
 Fanali, S., see Foret, F. 516(1990)219
 Fanelli, R., see Bagnati, R. 527(1990)267
 Fanelli, R., see Bagnati, R. 547(1991)325
 Fang, F. W., see Hearn, M. T. W. 548(1991)117
 Fang, J.-N., see Wei, Y.-A. 513(1990)227
 Fang, X., Yu, B., Xiang, B. and An, D.
 Application of pyrolysis–high-resolution gas
 chromatography–pattern recognition to the
 identification of the Chinese traditional
 medicine Mai Dong 514(1990)287

- Fang, Y.-J., see Hu, O. Y.-P. 523(1990)321
- Fannin, F. F., Bush, L. P., Siegel, M. R. and Rowan, D. D.
Analysis of peramine in fungal endophyte-infected grasses by reversed-phase thin-layer chromatography 503(1990)288
- Fanska, C. B., Byerley, T. J. and Eick, J. D.
Indirect determination of isocyanates by gas chromatography 537(1991)357
- Farina, M., Finetti, G. and Busnelli, V.
High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171
- Farina, M., see Perrone, G. 520(1990)373
- Farinotti, R., see Gimenez, F. 529(1990)339
- Farinotti, R., see Tod, M. 542(1991)295
- Farkas, G., see Vigh, G. 502(1990)11
- Farkas, G., see Vigh, G. 506(1990)481
- Farrell, K., see Kassahun, K. 527(1990)327
- Farthing, D., Fakhry, I., Gehr, T. W. B. and Sica, D. A.
Quantitation of metolazone in urine by high-performance liquid chromatography with fluorescence detection 534(1990)228
- Fassina, G., see Zamai, M. 549(1991)195
- Fau, T., see Hudson, M. K. 513(1990)21
- Fauler, J., see Tsikas, D. 545(1991)375
- Faupel, M., see Wenisch, E. 516(1990)133
- Fay, L. and Richli, U.
Location of double bonds in polyunsaturated fatty acids by gas chromatography-mass spectrometry after 4,4-dimethylloxazoline derivatization 541(1991)89
- Feibush, B. and Santasania, C. T.
Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41
- Feibush, B., see Ascah, T. L. 506(1990)357
- Felden, F., see Frémont, S. 526(1990)186
- Feldman, S., see Lau, S. W. J. 526(1990)87
- Fell, A. F., Castledine, J. B., Sellberg, B., Modin, R. and Weinberger, R.
Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33
- Fell, A. F., see Marr, J. G. D. 506(1990)289
- Fellegvári, I., see Valkó, K. 506(1990)35
- Fellin, P., see Williams, D. T. 549(1991)297
- Fellows, R. J., see Harvey, S. D. 518(1990)361
- Feltes, J., Levsen, K., Volmer, D. and Spiekermann, M.
Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21
- Feltl, L., Tajovská, P. and Smolková-Keulemansová, E.
Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas-solid system 520(1990)105
- Feng, J. and Fan, X.
Direct deconvolution of Tung's integral equation using a multi-Gaussian function model for instrumental band broadening in gel-permeation chromatography 522(1990)57
- Fenselau, C. C., see Simpson, R. C. 536(1991)143
- Fenton, M. and Sim, J. S.
Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323
- Fenwick, G. R., see Oleszek, W. 519(1990)109
- Fermo, I., De Vecchi, E., Diomede, L. and Paroni, R.
Serum amino acid analysis with pre-column derivatization: comparison of the *o*-phthalaldehyde and N,N-diethyl-2,4-dinitro-5-fluoroaniline methods 534(1990)23
- Fernández-Sánchez, E., see Becerra, M. R. 547(1991)269
- Fernández-Torres, A., see Becerra, M. R. 547(1991)269
- Ferrannini, E., see Buzzigoli, G. 507(1990)85
- Ferrara, P., see Marchese, E. 504(1990)351
- Ferrari, L., see Maccari, F. 532(1990)124
- Ferraris, S. and Korte Jr., D. W.
Determination of the oximes 2-hydroxyiminomethyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride and 1-[1-(3-butynyloxymethyl)]-2-hydroxyiminomethyl-3-methylimidazolium chloride in plasma by high-performance liquid chromatography 527(1990)361
- Ferraz, C., Sri Widada, J. and Liautard, J.-P.
Purification and characterization of recombinant tropomyosins 539(1991)465
- Ferri, G., see Iadarola, P. 512(1990)165
- Ferrier, D., see Baillet, A. 519(1990)337
- Ferris, R., see Missbichler, A. 510(1990)339
- Ferry, S., see Bouliou, R. 528(1990)542
- Feste, A. S., Turck, D. and Lifschitz, C. H.
High-performance size-exclusion chromatography of porcine colonic mucins. Comparison of Bio-Gel® TSK 40XL and Sepharose® 4B columns 518(1990)349

- Fidge, N., see Meyer, B. 540(1991)386
- Fidge, N., see Tetaz, T. 511(1990)147
- Fiedler, H.-P., Meiwes, J., Werner, I., Konetschny-Rapp, S. and Jung, G. Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255
- Fiedler, H.-P. and Wachter, J. High-performance liquid chromatographic determination of bleomycins 536(1991)343
- Fielden, P. R. and Packham, A. J. Retention of benzo[a]pyrene on cyclodextrin-bonded phases 516(1990)355
- Filip, P., see Vejrosta, J. 518(1990)234
- Filipović, B., see Sokolić, M. 509(1990)189
- Fillion, L., Zee, J. A. and Gosselin, C. Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzylation 547(1991)105
- Filsler, J. G., see Kessler, W. 534(1990)67
- Finetti, G., see Farina, M. 507(1990)171
- Fini, C., see Codini, M. 536(1991)337
- Fini, C., see Guida, E. 507(1990)51
- Finley, B. E., see Wiley, D. M. 533(1990)73
- Finn, N., see Smith, R. M. 537(1991)51
- Firmin, J. L. High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343
- Firouztale, E., see Ladisch, M. R. 540(1991)85
- Fischer, A. M., see Sinniger, V. 539(1991)289
- Fischer, D.-C., see Stöcker, G. 521(1990)311
- Fischer, I. U. and Dengler, H. J. Sensitive high-performance liquid chromatographic assay for the determination of eugenol in body fluids 525(1990)369
- Fischer, N., Weinreich, B., Nitz, S. and Drawert, F. Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193
- Fischer, N. H., see Weidenhamer, J. D. 504(1990)151
- Fischer, P., see Scherberich, J. E. 521(1990)279
- Fischer, W. G. and Kusch, P. Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9
- Fishman, R. M., Moore, G. L., Zegna, A. and Marini, M. A. High-performance liquid chromatographic evaluation of pyridoxyl 5'-phosphate hemoglobin derivatives produced by different reduction procedures 532(1990)55
- Fitzgerald, V., see Blank, M. L. 508(1990)382
- Flaig, K. H., see Hahn, A. 545(1991)91
- Flamion, P.-J., see Cachia, C. 539(1991)343
- Flanigan, E., see Munera, M. E. 536(1991)123
- Flapper, W., Theeuwes, A. G. M., Kierkels, J. T. G., Steenbergen, J. and Hoenders, H. J. Separation of serum proteins by high-performance gel-permeation column systems 533(1990)47
- Fleming, R. A. and Stewart, C. F. Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection 528(1990)517
- Fleminger, G., Solomon, B., Wolf, T. and Hadas, E. Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271
- Fleminger, G., Wolf, T., Hadas, E. and Solomon, B. Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311
- Fleminger, G., see Hadas, E. 510(1990)303
- Fleminger, G., see Solomon, B. 510(1990)321
- Fleminger, G., see Solomon, B. 539(1991)335
- Flodin, P., see Kulin, L.-I. 514(1990)1
- Florance, J. and Konteatis, Z. Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299
- Flores-Murrieta, F. J., Castañeda-Hernández, G. and Hong, E. Determination of pelanserin in human plasma by high-performance liquid chromatography with amperometric detection 528(1990)501
- Floridi, A., see Codini, M. 536(1991)337
- Floridi, A., see Guida, E. 507(1990)51
- Flouquet, N., see Vaccher, C. 542(1991)502
- Födösch, H. J., see Bessems, G. J. H. 529(1990)277
- Fogl, U., see Jäger, W. 532(1990)411
- Folchitto, G., see Giacobbe, S. 548(1991)289
- Folchitto, G., see Miraglia, N. 512(1990)123
- Forciniti, D., see Walsdorf, A. 523(1990)103
- Ford, S. H., Gallery, J., Nichols, A. and Shambee, M. High-performance liquid chromatographic analysis of the (cyanoaquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

- Ford, S. H., Nichols, A. and Gallery, J. M.
Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185
- Forde, D. M., see Deistung, J. 539(1991)485
- Foret, F., Fanali, S. and Boček, P.
Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins 516(1990)219
- Foret, F., see Křivánková, L. 545(1991)307
- Foret, F., see Šustáček, V. 545(1991)239
- Forgács, E., see Valkó, K. 550(1991)667
- Fornstedt, T., Westerlund, D. and Sokolowski, A.
Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61
- Fornstedt, T., Westerlund, D. and Sokolowski, A.
Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93
- Forrest, M. J., see Dawkins, J. V. 550(1991)539
- Först, C., see Liebich, H. M. 525(1990)1
- Forsyth, D. A., see Mahmoud, M. E. 549(1991)416
- Fořtová, H., Dyr, J. E. and Suttnar, J.
Isolation of a fibrinogen-converting enzyme ficyzyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312
- Foster, R. T., see Piquette-Miller, M. 526(1990)129
- Foster, R. T., see Piquette-Miller, M. 533(1990)300
- Foth, H., see Frijus-Plessen, N. 534(1990)101
- Foth, H., see Michaelis, H. C. 527(1990)201
- Fourche, J., Capdepu, M., Maugein, J. and Le Moigne, F.
Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209
- Fourmy, D., see Jiménez, J. 511(1990)333
- Fourtillan, J. B., see Girault, J. 518(1990)41
- Fourtillan, J. B., see Girault, J. 530(1990)295
- Fowler, K. W., see Byrd, G. D. 503(1990)359
- Fowler, K. W., see Nanni, E. J. 505(1990)365
- France, J. E., Snyder, J. M. and King, J. W.
Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271
- Franceschini, A., Duthel, J. M. and Vallon, J. J.
Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109
- Franco, R., see Aran, J. M. 532(1990)75
- Frank, H., see Senf, L. 520(1990)131
- Frank, H., see Welsch, T. 506(1990)97
- Franke, J. P., see Chen, X. 529(1990)161
- Frankenberger, Jr., W. T., Mehra, H. C. and Gjerde, D. T.
Environmental applications of ion chromatography (Review) 504(1990)211
- Frankenberger, Jr., W. T., see Martens, D. A. 546(1991)297
- Frankenberger, Jr., W. T., see Mehra, H. C. 508(1990)265
- Franklin, M.
Determination of plasma buspirone by high-performance liquid chromatography with coulometric detection 526(1990)590
- Fransson, B., Lurdes S. Almeida, M., Grehn, L. and Ragnarsson, U.
Separation of spermidine derivatives by reversed-phase high-performance liquid chromatography using a UV-absorbing counter ion 508(1990)229
- Frascerca, S., see Buzzigoli, G. 507(1990)85
- Fratarcangeli, R., see Bertoni, G. 522(1990)285
- Frech, W., see Stupar, J. 541(1991)243
- Fréchet, J. M. J., see Rolls, W. A. 504(1990)97
- Frei, R. W., see Marko-Varga, G. 523(1990)173
- Freiser, H., see Muralidharan, S. 513(1990)370
- Freiser, H. H. and Gooding, K. M.
Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125
- Frémont, S., Guéant, J.-L., Felden, F., Egloff, M., Gérard, A. and Nicolas, J.-P.
Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186
- Frenz, J., Bourell, J. and Hancock, W. S.
High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299
- Freysz, L., see Rastegar, A. 518(1990)157
- Frezza, J. E., see Ackland, C. E. 540(1991)187
- Fridman, M., Aguilar, M. I. and Hearn, M. T. W.
High-performance liquid chromatography of

- amino acids, peptides and proteins. XCIX.
Comparative study of the equilibrium
refolding of bovine, porcine and human
growth hormone by size-exclusion
chromatography 512(1990)57
- Friebe, S., see Dudek, S. 520(1990)333
- Friedrich, J. P., see King, J. W. 517(1990)449
- Friis, J. M., see Lakings, D. B. 526(1990)273
- Frijus-Plessen, N., Michaelis, H. C., Foth, H. and
Kahl, G. F.
Determination of 3'-azido-3'-
deoxythymidine, 2',3'-dideoxycytidine,
3'-fluoro-3'-deoxythymidine and 2',3'-
dideoxyinosine in biological samples by
high-performance liquid chromatography
534(1990)101
- Frisina, G., see Testoni, F. 509(1990)101
- Fritsche, B., see Kenndler, E. 514(1990)383
- Fritz, J. S.
Principles and applications of ion-exclusion
chromatography (Review) 546(1991)111
- Fritz, J. S., see Strasburg, R. F. 547(1991)11
- Fritz, J. S., see Sun, J. J. 522(1990)95
- Fritzler, M. J., see Gohill, J. 502(1990)47
- Frölich, J. C., see Tsikas, D. 545(1991)375
- Fruttero, R., see Calvino, R. 547(1991)167
- Fu, R., see Zhang, A. 521(1990)128
- Fu, R., see Zhu, P. 511(1990)390
- Fuchiwaki, T., see Kawai, S. 514(1990)29
- Fügedi, A., see Horváthová, M. 509(1990)213
- Fuhrer, J. P.
Rapid analysis of membrane glycopeptides
by gel permeation high-performance liquid
chromatography 528(1990)65
- Fujii, J., Inotsume, N., Nakano, M., Matsukane,
I., Higashi, A., Matsuda, I., Sudo, Y. and
Takahata, Y.
Rapid determination of serum oxatamide
levels with on-line precolumn solid-phase
extraction 530(1990)469
- Fujii, Y., Ikeda, Y., Okamoto, I. and Yamazaki,
M.
Separation and determination of lanatosides
in *Digitalis lanata* leaves by high-
performance liquid chromatography
508(1990)241
- Fujimori, H., Sasaki, T., Hibi, K., Senda, M. and
Yoshioka, M.
Direct injection of blood samples into a
high-performance liquid chromatographic
adenine analyser to measure adenine,
adenosine and the adenine nucleotides with
fluorescence detection 515(1990)363
- Fujimori, H., Sasaki, T., Hibi, K., Senda, M. and
Yoshioka, M.
Measurement of adenine nucleotide levels
with an adenine analyser as an index of
freshness of porgy 528(1990)305
- Fujimori, M., see Abe, J. 526(1990)562
- Fujimoto, C., see Jinno, K. 506(1990)443
- Fujimoto, T., see Shoshihara, M. 529(1990)473
- Fujimura, N., see Nishi, H. 539(1991)71
- Fujita, K., see Giegerich, G. 528(1990)79
- Fujita, M., see Oka, H. 538(1991)149
- Fujita, T., see Iida, J. 515(1990)503
- Fujiwara, H., see Yamada, T. 515(1990)475
- Fujiwara, S., see Adachi, J. 538(1991)331
- Fukasawa, K., see Harada, M. 527(1990)158
- Fukasawa, K., see Harada, M. 530(1990)116
- Fukasawa, K. M., see Harada, M. 527(1990)158
- Fukasawa, K. M., see Harada, M. 530(1990)116
- Fuks, R., see Khamlichi, S. 510(1990)123
- Fukuda, E. K., see Garland, W. A.
539(1991)133
- Fukuda, T., Kohara, N., Onogi, Y. and Inagaki,
H.
Separation of simple ions by gel
chromatography. I. Simple model of
separation for single-salt systems
511(1990)59
- Fukuda, T., see Gomita, Y. 528(1990)509
- Fukui, S., Morishima, M., Ogawa, S. and
Hanazaki, Y.
Determination of dimethyl sulphate in air by
gas chromatography with flame photometric
detection 541(1991)459
- Fukui, Y., Ichida, A., Shibata, T. and Mori, K.
Optical resolution of racemic compounds on
chiral stationary phases of modified
cellulose 515(1990)85
- Fukui, Y., see Sakuma, I. 506(1990)223
- Fukushi, K. and Hiroy, K.
Use of cyclodextrins in the isotachophoretic
determination of various inorganic anions
518(1990)189
- Fukushi, K. and Hiroy, K.
Use of crown ethers in the isotachophoretic
determination of metal ions 523(1990)281
- Fukushima, S., see Akane, A. 529(1990)155
- Fukuyama, T., see Nishi, H. 513(1990)279
- Fukuyama, T., see Nishi, H. 515(1990)233
- Fukuyama, T., see Nishi, H. 515(1990)245
- Fukuyama, T., see Nishi, H. 539(1991)71
- Fukuyama, T., see Terabe, S. 545(1991)359
- Fülöp, N., see Csató, E. 511(1990)79
- Fulton, S. P., Afeyan, N. B., Gordon, N. F. and
Regnier, F. E.
Very high speed separation of proteins with
a 20- μ m reversed-phase sorbent
547(1991)452
- Fulton, S. P., see Afeyan, N. B. 519(1990)1
- Fulton, S. P., see Afeyan, N. B. 544(1991)267
- Fulzele, D. P., see Sipahimalani, A. T.
538(1991)452
- Funae, Y., see Abe, J. 526(1990)562

- Funazo, K., see Chen, S.-H. 502(1990)257
- Funkenbusch, E. F., see Weber, T. P. 519(1990)31
- Furio, M., see D'Aranno, V. 525(1990)234
- Furr, H. C., Zeng, S., Clifford, A. J. and Olson, J. A.
Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406
- Furton, K. G., see Rein, J. 545(1991)149
- Furuno, K., see Gomita, Y. 528(1990)509
- Furusawa, M., see Kiba, N. 537(1991)443
- Furusawa, M., see Kiba, N. 549(1991)127
- Furuta, T., Kusano, K. and Kasuya, Y.
Simultaneous measurements of endogenous and deuterium-labelled tracer variants of androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15
- Fuse, H., see Kiba, N. 549(1991)127
- G**
- Gabriel, J., Vacek, O., Kubátová, E. and Volc, J.
High-performance liquid chromatographic determination of the antibiotic corticosterone 542(1991)200
- Gadde, R. R., see DiNunzio, J. E. 519(1990)117
- Gadde, R. R., see Kril, M. B. 522(1990)227
- Gadzikowska, M., see Bieganska, M. L. 520(1990)403
- Gagliardi, L., Cavazzutti, G., Turchetto, L., Manna, F. and Tonelli, D.
Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252
- Gahl, W. A., see Blom, H. J. 533(1990)11
- Gaitonde, C. D. and Pathak, P. V.
Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330
- Gaitonde, C. D. and Pathak, P. V.
Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389
- Gaitonde, C. D. and Pathak, P. V.
Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407
- Gaitonde, C. D. and Pathak, P. V.
Rapid liquid chromatographic method for the estimation of isoniazid and pyrazinamide in plasma and urine 532(1990)418
- Gál, S., Tar, A., Toth-Martinez, B. L. and Hernadi, F. J.
Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 545(1991)189
- Galensa, R., see Krause, M. 502(1990)287
- Galensa, R., see Krause, M. 514(1990)147
- Gallagher, K., see Hale, R. C. 539(1991)149
- Gallagher, M. M., McMinn, D. G. and Hill, Jr., H. H.
Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297
- Gallant, J. and Leblanc, R. M.
Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307
- Gallego, M., see Ballesteros, E. 518(1990)59
- Gallery, J., see Ford, S. H. 537(1991)235
- Gallery, J. M., see Ford, S. H. 536(1991)185
- Galletti, G. C. and Chiavari, G.
Size-exclusion chromatography of lignocelluloses in wheat straw 536(1991)303
- Galletti, G. C., Piccaglia, R. and Concialini, V.
Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439
- Galliano, M., see Iadarola, P. 512(1990)165
- Gallice, P. M., Crevat, A. D. and Berland, Y. F.
Scaling up in isolation of medium-size uraemic toxins 539(1991)449
- Gallion, C., see Jehl, F. 525(1990)225
- Gallion, C., see Jehl, F. 531(1990)509
- Galmier, M. J., see Andriollo, O. 533(1990)215
- Galoux, M., see Van Damme, J.-C. 518(1990)375
- Galushko, S. V., Shishkina, I. P. and Alekseeva, I. V.
Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

- Galushko, S. V., Shishkina, I. P., Soloshonok, V. A. and Kukhar, V. P.
Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115
- Galustian, C., see Eastwood, R. J. 530(1990)463
- Galvez-Sinibaldi, A., see Philp, R. P. 550(1991)193
- Gambertoglio, J. G., see Hassanzadeh, M. K. 525(1990)133
- Gambetti, L., see Di Muccio, A. 513(1990)333
- Games, D. E., see Perkins, J. R. 540(1991)239
- Games, D. E., see Perkins, J. R. 540(1991)257
- Gami-Yilinkou, R. and Kaliszan, R.
Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573
- Gamoh, K., Sawamoto, H., Takatsuto, S., Watabe, Y. and Arimoto, H.
Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227
- Ganchev, G., see Kovacheva, E. 509(1990)79
- Gandini, C., Caccialanza, G., Kitsos, M., Massolini, G. and De Lorenzi, E.
Determination of 5-aminosalicylic acid and related compounds in raw materials and pharmaceutical dosage forms by high-performance liquid chromatography 540(1991)416
- Gandini, C., see Biondi, P. A. 507(1990)333
- Ganeshraj, S. P., see Govindachari, T. R. 513(1990)389
- Ganzler, K., Szinai, I. and Salgó, A.
Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257
- Gao, C. X. and Krull, I. S.
Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography-ultraviolet/fluorescence detection 515(1990)337
- Gao, J.-P., see Leff, V. 547(1991)462
- Garaj, J., see Brandšterová, E. 502(1990)214
- García, L., see Ladrón de Guevara, O. 528(1990)35
- García-Domínguez, J. A., see Becerra, M. R. 547(1991)269
- García-Pérez, A.-I., Sancho, P. and Luque, J.
Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79
- Gardana, C., see Pietta, P. 537(1991)449
- Gardana, C., see Pietta, P. G. 547(1991)439
- Garkavaya, N. N., see Balyatinskaya, L. N. 509(1990)107
- Garland, W. A., Crews, T. and Fukuda, E. K.
Effect of noise on peak heights calculated using an exponentially modified gaussian peak shape model 539(1991)133
- Garner, T. W. and Yeung, E. S.
Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639
- Garrigues, P., see Wise, S. A. 514(1990)111
- Gärtner, G., see Huse, K. 502(1990)171
- Gärtner, W., see Dutot, C. 528(1990)435
- Gaš, B., Vacík, J. and Zelenský, I.
Computer-aided simulation of electromigration 545(1991)225
- Gasa, S., see Kato, N. 549(1991)133
- Gasa, S., see Saga, Y. 513(1990)379
- Gasco, A., see Calvino, R. 547(1991)167
- Gasparič, J.
Benzodiazepines II—a handbook (by H. Schütz) (Book Review) 529(1990)263
- Gasparrini, F., Misiti, D., Villani, C. and La Torre, F.
Chromatographic resolution of 1,2-amino alcohols on a chiral stationary phase containing N,N'-(3,5-dinitrobenzoyl)-*trans*-1,2-diaminocyclohexane. Theoretical and practical aspects 539(1991)25
- Gasparrini, F., see Bruno, G. 504(1990)319
- Gassend, R., see Duprat, F. 540(1991)157
- Gassmann, E., see Steiner, V. 530(1990)273
- Gastaldo, L., see Zanol, M. 536(1991)211
- Patrone, R. C., Rickert, P. G., Horwitz, E. P., Smith, B. F., Bartholdi, C. S. and Martinez, A. M.
Analysis of *n*-octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide and TRUEX process solvent by gas and liquid chromatography 516(1990)395
- Gatti, R., Cavrini, V., Roveri, P. and Pinzauti, S.
High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451
- Gattoni, M., see Chiancone, E. 539(1991)455
- Gaur, R. K.
High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207
- Gaur, R. K., see Gupta, K. C. 541(1991)341
- Gauthier, S., see Maniongui, C. 543(1991)81
- Gavlick, W. K., Stuff, J. R. and Uden, P. C.
Comparison of discharge tubes for deuterium-specific gas chromatographic

- detection with a microwave-induced plasma
508(1990)187
- Gavrichev, V. S., Voloshina, N. V., Berezkin, V. G., Korolev, A. A., Malisova, A. D., Okhotnikov, B. P. and Simongauz, S. E.
Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59
- Gavrichev, V. S., see Berezkin, V. G.
509(1990)85
- Gavrichev, V. S., see Berezkin, V. G.
520(1990)91
- Gavrilova, T. B., Daidakova, I. V., Petsev, N., Topalova, I., Ivanov, S. and Chaney, C.
Gas chromatographic properties of modified boron nitride 520(1990)41
- Gavrilova, T. B., see Chaney, C. 520(1990)33
- Gawdzik, B.
Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41
- Gawdzik, B.
Comparison of the selectivity of di-(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77
- Gawdzik, B., Gawdzik, J. and Czerwińska-Bil, U.
Use of polymeric sorbents for the off-line preconcentration of priority pollutant phenols from water for high-performance liquid chromatographic analysis 509(1990)135
- Gawdzik, J., see Gawdzik, B. 509(1990)135
- Gayden, R. H., Watts, III, B. A., Beach, R. E. and Benedict, C. R.
Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265
- Gaydou, E. M., Berahia, T., Wallet, J.-C. and Bianchini, J.-P.
Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils 549(1991)440
- Gazdag, M., Babják, M., Kemenes-Bakos, P. and Görög, S.
Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639
- Ge, H., Teasdale, P. R. and Wallace, G. G.
Electrochemical chromatography—packings, hardware and mechanisms of interaction (Review) 544(1991)305
- Ge, J., see Zhang, A. 521(1990)128
- Gebauer, P. and Thormann, W.
Isotachopheresis in open-tubular fused-silica capillaries with on-column multi-wavelength detection 545(1991)299
- Gebauer, P., see Caslavská, J. 545(1991)315
- Gebauer, P., see Dolnik, V. 545(1991)249
- Geerdink, R. B.
Direct determination of metamitron in surface water by large sample volume injection 543(1991)244
- Geerdink, R. B., Graumans, A. M. B. C. and Viveen, J.
Determination of phenoxyacid herbicides in water 547(1991)478
- Gehas, J. and Wetlaufer, D. B.
Isocratic hydrophobic interaction chromatography of dansyl amino acids. Correlation of hydrophobicity and retention parameters 511(1990)123
- Gehr, T. W. B., see Farthing, D. 534(1990)228
- Geiger, E., see Camacho, P. L. 506(1990)611
- Geisslinger, G., see Menzel-Soglowek, S. 532(1990)295
- Geisslinger, G., see Moeller, N. 530(1990)200
- Gelpi, E.
Liquid chromatography—mass spectrometry: applications in agricultural, pharmaceutical, and environmental chemistry (edited by M. A. Brown) (Book Review) 538(1991)510
- Gelpi, E., see Ramis, I. 532(1990)217
- Gelsema, W. J., see Tji, T. G. 504(1990)403
- Gemeiner, P., see Mislovičová, D. 510(1990)197
- Geng, W., see Michaelis, H. C. 527(1990)201
- Geng, X., Guo, L. and Chang, J.
Study of the retention mechanism of proteins in hydrophobic interaction chromatography 507(1990)1
- Genka, S., see Greig, N. H. 534(1990)279
- Gennaro, M. C. and Bertolo, P. L.
Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147
- Gennaro, M. C., Bertolo, P. L. and Marengo, E.
Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149
- Georgakopoulos, P. P., see Kountourellis, J. E. 502(1990)189
- Gérard, A., see Frémont, S. 526(1990)186
- Gerard, M., see Moncollin, V. 510(1990)243
- Gerber, G., see Grune, T. 520(1990)411
- Gerbino, T. C. and Castello, G.
Gas chromatographic identification of

- complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305
- Gerbino, T. C., see Castello, G. 522(1990)329
- Gerhart, B. B. and Cortes, H. J.
Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377
- Germain, P., see Sentier, L. 547(1991)531
- Gescher, A., see Shaw, A. J. 505(1990)402
- Geschier, C., see Straczek, J. 532(1990)237
- Geschke, R., see Heizmann, P. 534(1990)233
- Getek, T. A., see Billedeau, S. M. 534(1990)151
- Getek, T. A., see Hornedo-Nuñez, A. 503(1990)217
- Geurts, T., see Welling, G. W. 512(1990)337
- Ghatge, B. B. and Bhalerao, N. V.
Application of substituted liquid crystals as stationary phases in gas-liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423
- Ghogare, A. B., see Sadana, G. S. 542(1991)515
- Ghose, S. and Mattiasson, B.
Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145
- Giacobbe, S., Miraglia, N., Rindone, B., Folchitto, G. and Antonelli, G.
High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289
- Giam, C. S., see Mayernik, J. A. 526(1990)407
- Giambenedetti, M., see Lucarelli, C. 511(1990)167
- Giddings, J. C.
Two-dimensional field-flow fractionation 504(1990)247
- Giddings, J. C., see Moon, M. H. 517(1990)423
- Giddings, J. C., see Williams, P. S. 550(1991)787
- Giegerich, G., Pette, M., Fujita, K., Wekerle, H., Epplen, J. T. and Hinkkanen, A.
Rapid method based on reversed-phase high-performance liquid chromatography for purification of human myelin basic protein and its thrombic and endoproteinase Lys-C peptides 528(1990)79
- Giese, R. W., see Al-Deen, A. N. 512(1990)409
- Giese, R. W., see Bakthavachalam, J. 538(1991)447
- Gigante, B., Barros, A. M. V., Teixeira, A. and Marcelo-Curto, M. J.
Separation and simultaneous high-performance liquid chromatographic determination of benzocaine and benzyl benzoate in a pharmaceutical preparation 549(1991)217
- Gilbert, J., see Perkins, J. R. 540(1991)239
- Gilbert, J., see Perkins, J. R. 540(1991)257
- Gilbert, J., see Sharman, M. 543(1991)220
- Gill, R., see Smith, R. M. 514(1990)97
- Gilmore, A. M. and Yamamoto, H. Y.
Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C₁₈ high-performance liquid chromatographic column 543(1991)137
- Gilpin, R. K., Jaroniec, M. and Martin-Hopkins, M. B.
Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1
- Gimenez, F., Farinotti, R., Thuillier, A., Hazebroucq, G. and Wainer, I. W.
Determination of the enantiomers of mefloquine in plasma and whole blood using a coupled achiral-chiral high-performance liquid chromatographic system 529(1990)339
- Giovannoni, G., see Betti, M. 546(1991)259
- Girardot, R., see Baldacini, O. 528(1990)357
- Girault, J. and Fourtillan, J. B.
Determination of clenbuterol in bovine plasma and tissues by gas chromatography-negative-ion chemical ionization mass spectrometry 518(1990)41
- Girault, J., Gobin, P. and Fourtillan, J. B.
Determination of calcium acetylhomotaurinate in human plasma and urine by combined gas chromatography-negative-ion chemical ionization mass spectrometry 530(1990)295
- Girbig, F., see Kramer, W. 521(1990)199
- Girin, E., see Cann-Moisan, C. 532(1990)438
- Girometta, M.A., Loschi, L. and Ventura, P.
High-performance liquid chromatographic determination of the mucoregulatory drug CO/1408 in rat plasma and urine 507(1990)227
- Giroto, P., Moroux, Y., Duteil, X. P., Nguyen, C. and Boschetti, E.
Composite affinity sorbents and their cleaning in place 510(1990)213
- Giroto, P., see Boschetti, E. 523(1990)35
- Giroto, P., see Hulak, I. 539(1991)355
- Gjerde, D. T., Cox, D. J., Jandik, P. and Li, J. B.
Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151
- Gjerde, D. T., see Frankenberger, Jr., W. T. 504(1990)211
- Gjerde, D. T., see Jackson, P. E. 546(1991)189

- Glajch, J. L., see Ryan, P. A. 550(1991)549
- Glatz, Z., Tomandl, J., Janiczek, O. and Marek, A.
Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197
- Glavas, S., see Mineshos, G. 541(1991)99
- Glennon, J. D. and Senior, A. T.
Simultaneous determination of desferrioxamine and ferrioxamine by high-performance liquid chromatography with amperometric detection 527(1990)481
- Glick, M., see Berthod, A. 502(1990)305
- Glöckner, G. and Van den Berg, J. H. M.
Separation of copolymers according to composition with special emphasis on the effect of block structure 550(1991)629
- Gluch, S., see Knight, M. 538(1991)141
- Gluck, S. J. and Wingeier, M. P.
Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69
- Gober, K. H., see Molnar, I. 550(1991)39
- Gobie, W. A. and Ivory, C. F.
Thermal model of capillary electrophoresis and a method for counteracting thermal band broadening 516(1990)191
- Gobin, P., see Girault, J. 530(1990)295
- Godin, J.
High-performance liquid chromatographic method for the determination of vanadium in serum 532(1990)445
- Goebel, L. K., see Rasmussen, H. T. 517(1990)549
- Goebel, W., see Schmitt, W. 521(1990)211
- Goehl, T. J., see Górski, T. 509(1990)383
- Goetschel, J. D., see Schmitt, S. 510(1990)239
- Gohill, J., Pauls, J. D. and Fritzer, M. J.
Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47
- Goiffon, J.-P., Brun, M. and Bourrier, M.-J.
High-performance liquid chromatography of red fruit anthocyanins 537(1991)101
- Goitom, Z., see Acevedo, F. 545(1991)343
- Golay, M. J. E., see Van Es, A. J. 517(1990)143
- Goldberg, V. D., see Elyas, A. A. 528(1990)473
- Goldstein, L., Niv, A. and Yankofsky, S. A.
Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23
- Golovnya, R. V. and Polanuer, B. M.
Comparison of methods for the determination of the polarity and selectivity of stationary phases in gas chromatography from a thermodynamic point of view 517(1990)51
- Golshan-Shirazi, S., El Fallah, M. Z. and Guiochon, G.
Effect of the intersection of the individual isotherms in displacement chromatography 541(1991)195
- Golshan-Shirazi, S. and Guiochon, G.
Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495
- Golshan-Shirazi, S. and Guiochon, G.
Influence of pressure on the maximum production rate in preparative liquid chromatography 511(1990)402
- Golshan-Shirazi, S. and Guiochon, G.
Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229
- Golshan-Shirazi, S. and Guiochon, G.
Dependence of the production rate on the relative retention of two components in preparative chromatography 523(1990)1
- Golshan-Shirazi, S. and Guiochon, G.
Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57
- Golshan-Shirazi, S. and Guiochon, G.
Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1
- Golshan-Shirazi, S., see El Fallah, M. Z. 511(1990)1
- Golshan-Shirazi, S., see Jacobson, S. 522(1990)23
- Golshan-Shirazi, S., see Lin, B. 508(1990)27
- Gomita, Y., Furuno, K., Eto, K., Fukuda, T., Araki, Y., Yamori, M. and Oishi, R.
Rapid and simple detection of nicorandil in rat plasma using a solid-phase extraction column 528(1990)509
- Gonçalves, E., see Cahnmann, H. J. 538(1991)165
- Gondolf, K. B., Batsford, S. R. and Vogt, A.
Isolation of an outer membrane protein complex from *Borrelia burgdorferi* by *n*-butanol extraction and high-performance ion-exchange chromatography 521(1990)325
- González, L. M., see González-Lara, R. 541(1991)453
- González, M. J., see Jiménez, B. 523(1990)265
- González-Lara, R. and González, L. M.
Analysis of the soluble proteins in grape must by two-dimensional electrophoresis 541(1991)453

- Goodall, D. M., see Wu, Z. 513(1990)209
- Gooding, K. M., see Freiser, H. H. 544(1991)125
- Gooijer, C.
Chemiluminescence and photochemical reaction detection in chromatography (edited by J. W. Birks) (Book Review) 504(1990)473
- Gora, R., see Heizmann, P. 527(1990)91
- Gorbunov, A. A., see Skvortsov, A. M. 507(1990)487
- Gorbunov, A. A., see Tennikov, M. B. 509(1990)219
- Gorczyńska, K., Kreczmer, T., Ciecierska-Stokłosa, D. and Utnik, A.
Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53
- Gordon, E. R., see Goresky, C. A. 528(1990)123
- Gordon, N. F., see Afeyan, N. B. 519(1990)1
- Gordon, N. F., see Fulton, S. P. 547(1991)452
- Gordon, S. M.
Identification of exposure markers in smokers' breath 511(1990)291
- Gorecki, D. K. J., Hindmarsh, K. W., Hall, C. A., Mayers, D. J. and Sankaran, K.
Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333
- Goresky, C. A. and Gordon, E. R.
High-performance liquid chromatographic separation of bilirubin conjugates: the effects of change in molarity and pH 528(1990)123
- Görner, T., Dellacherie, J. and Perrut, M.
Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309
- Görög, S., see Gazdag, M. 550(1991)639
- Goronowicz, J., see Ochocka, R. J. 543(1991)171
- Goronowicz, J., see Ossicini, L. 547(1991)283
- Gorris, L. G. M., Korteland, J., Derksen, R. J. A. M., Van der Drift, C. and Vogels, G. D.
Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421
- Gorshkov, A. V., Much, H., Becker, H., Pasch, H., Evreinov, V. V. and Entelis, S. G.
Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91
- Górski, L., see Grochowalski, A. 502(1990)160
- Gorski, R. J., Morgan, D. K., Sarocka, C. and Plasz, A. C.
Estimation and identification of non-polar compounds in clarithromycin bulk drug by high-performance liquid chromatography 540(1991)422
- Górski, T., Goehl, T. J., Jameson, C. W., Collins, B. J., Bursey, J. and Moseman, R.
Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383
- Gorton, L., see Marko-Varga, G. 506(1990)423
- Gorton, L., see Marko-Varga, G. 523(1990)173
- Goss, T. A., Bard, M. and Jarrett, H. W.
High-performance affinity chromatography of DNA 508(1990)279
- Gosselin, C., see Fillion, L. 547(1991)105
- Goto, J., see Iida, T. 537(1991)345
- Goto, M., Miyahara, H. and Ishii, D.
Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213
- Gotoh, T., see Murakita, H. 515(1990)527
- Gotoh, Y., see Imamura, Y. 526(1990)282
- Göttinger, W., see Baier, G. 525(1990)319
- Gottsegen, A., see Antus, S. 508(1990)212
- Götzinger, W., see Engelhardt, H. 544(1991)371
- Gould, D. H., see Savage, J. C. 526(1990)540
- Gourley, G. R., see Odell, G. B. 529(1990)287
- Goví, M., see Ciavatta, C. 509(1990)141
- Govindachari, T. R., Sandhya, G. and Ganeshraj, S. P.
Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389
- Govindraj, N., see Singhal, R. P. 543(1991)17
- Goyal, S. S., Hafez, A. and Rains, D. W.
Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269
- Goyal, S. S., see Hafez, A. A. 546(1991)387
- Graeve, M., see Kattner, G. 513(1990)327
- Graham, E. E., see Tsai, A. M. 504(1990)89
- Grandmaison, J. L.
Calcul de la composition, avec une constante de proportionnalité, de mélanges à partir du chromatogramme obtenu par détection partagée entre deux détecteurs 519(1990)159

- Grandmaison, J. L. and Kaliaguine, S.
Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225
- Grange, A. H., see Donnelly, J. R. 540(1991)293
- Grant, I., see Steuer, W. 507(1990)125
- Grases, F., see Millán, A. 529(1990)402
- Grases, J. M., see Millán, A. 529(1990)402
- Graumans, A. M. B. C., see Geerdink, R. B. 547(1991)478
- Gray, D. O., see Grosvenor, P. W. 504(1990)456
- Grayesi, M. L., see Koziol, T. R. 513(1990)145
- Grazia Castelli, M., see Bagnati, R. 527(1990)267
- Green, A., see Ahnoff, M. 506(1990)593
- Green, G. A., see Baldacini, O. 528(1990)357
- Greenaway, W. and Whatley, F. R.
Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145
- Greenaway, W. and Whatley, F. R.
Synthesis of esters of acetyloxycaffeic acids and their occurrence in poplar bud exudates 543(1991)113
- Greenblatt, D. J., Javaid, J. I., Locniskar, A., Harmatz, J. S. and Shader, R. I.
Gas chromatographic analysis of alprazolam in plasma: replicability, stability and specificity 534(1990)202
- Greene, D., see Patel, A. 510(1990)83
- Greene, S. V., Krebs, H. A., Lemieux, R. E. and Cheng, L. K.
Determination of a new anti-allergenic agent, 1-[4-[3-[4-[bis-(4-fluorophenyl)-hydroxymethyl]-1-piperidinyl]propoxy]-3-methoxyphenyl]ethanone, and its active acidic metabolite in plasma by high-performance liquid chromatography 527(1990)397
- Grego, B., see Tetaz, T. 511(1990)147
- Grehn, L., see Fransson, B. 508(1990)229
- Greibrokk, T.
Supercritical fluid extraction and chromatography (ACS Symposium Series, No. 366) (edited by B. A. Charpentier and M. R. Sevenants) (Book Review) 503(1990)475
- Greibrokk, T., Berg, B.E., Hoffmann, S., Norli, H.R. and Ying, Q.
Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283
- Greibrokk, T., see Doehl, J. 529(1990)21
- Greig, N. H., Stahle, P. L., Shetty, H. U., Genka, S., John, V., Soncrant, T. T. and Rapoport, S. I.
High-performance liquid chromatographic analysis of chlorambucil *tert*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279
- Greig, N. H., see Deutsch, J. 528(1990)325
- Greig, N. H., see Phelan, D. G. 533(1990)264
- Greiner, M. and Winkelmann, G.
Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437
- Gresti, J., see Maniongui, C. 543(1991)81
- Grill, C. M., see Amari, J. V. 517(1990)219
- Gristwood, W. E.
Determination of fluparoxan (GR50360) in plasma by gas chromatography 527(1990)436
- Grobecker, H., see Kees, F. 525(1990)484
- Grochowalski, A., Górski, L., Śliwka, I. and Lasa, J.
Gas chromatographic determination of polychlorinated dibenzo-*p*-dioxins in wood preservatives 502(1990)160
- Groenland, W. P. T., see Verhaar, L. A. T. 549(1991)113
- Gromotowicz, W., see Czerwinski, W. 520(1990)163
- Gromov, V. S., see Eremeeva, T. E. 522(1990)67
- Grönberg, L., see Gyllenhaal, O. 511(1990)303
- Gröningsson, K., see Svensson, M. 521(1990)141
- Gross, A. S., Borstel, B. and Eichelbaum, M.
Determination of gallopamil in serum by gas chromatography-mass spectrometry 525(1990)183
- Grossi, F., see Segatti, M. P. 536(1991)319
- Grossi, G., Bargossi, A. M., Lucarelli, C., Paradisi, R., Sprovieri, C. and Sprovieri, G.
Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273
- Grossi, G., see Lucarelli, C. 541(1991)285
- Grossklaus, R., see Klingebiel, L. 527(1990)238
- Grosvenor, P. W. and Gray, D. O.
2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456
- Grote, A. A., see Kennedy, E. R. 522(1990)303
- Grotjan, H. E., Schanbacher, B. D. and Keel, B. A.
Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

- Grotjan, H. E. and Zalesky, D. D.
Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153
- Grover, E. R., see Phillips, D. J. 536(1991)95
- Grübler, G., Gutjahr, F., Echner, H. F., Voelter, W. and Bauer, H.
High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249
- Gruetter, M., see Steiner, V. 530(1990)273
- Grundevik, I., see Ahnoff, M. 506(1990)593
- Grune, T., Siems, W., Werner, A., Gerber, G., Kostić, M. and Esterbauer, H.
Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411
- Grune, T., see Werner, A. 507(1990)311
- Grushka, E., see Jang, N.-I. 550(1991)507
- Grushka, E., see Woolfson-Bartfeld, D. 517(1990)305
- Grzeszkiewicz, A., see Cendrowska, I. 509(1990)195
- Grzywnowicz, K., see Łobarzewski, J. 520(1990)223
- Gu, G. and Lim, C. K.
Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183
- Guan, Z., see Zhang, A. 521(1990)128
- Guaraldo Goncalves, L. A., see Aitzetmüller, K. 519(1990)349
- Gübitz, G., see Aichinger, I. 523(1990)163
- Gudej, J., see Dzido, T. H. 550(1991)71
- Gueant, J.-L., see Djalali, M. 529(1990)81
- Guéant, J.-L., see Frémont, S. 526(1990)186
- Guelen, P. J. M., see Lansdorp, D. 528(1990)487
- Guenzi, A. and Zanetti, M.
Determination of aniracetam and its main metabolite, N-anisoyl-GABA, in human plasma by high-performance liquid chromatography 530(1990)397
- Guerra, M. C., see Biagi, G. L. 504(1990)163
- Guerra, M. C., see Biagi, G. L. 547(1991)523
- Guerrier, L., see Boschetti, E. 523(1990)35
- Guglya, E. B. and Zhukhovitskii, A. A.
Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157
- Guida, E., Codini, M., Palmerini, C. A., Fini, C., Lucarelli, C. and Floridi, A.
Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51
- Guillaume, J. L., see Dandeu, J. P. 539(1991)475
- Guillén, M. D., see Blanco, C. G. 539(1991)157
- Guillén, M. D., see Díez, M. A. 508(1990)363
- Guinebault, P., Colafranceschi, C. and Bianchetti, G.
Determination of mephenesin in plasma by high-performance liquid chromatography with fluorimetric detection 507(1990)221
- Guinebault, P., Haddouche, A. and Bianchetti, G.
High-performance liquid and gas chromatographic methods for the determination of cicloprolol 525(1990)359
- Guiochon, G., see Aubel, M. T. 514(1990)11
- Guiochon, G., see Czok, M. 506(1990)303
- Guiochon, G., see Czok, M. 537(1991)497
- Guiochon, G., see Czok, M. 550(1991)705
- Guiochon, G., see El Fallah, M. Z. 511(1990)1
- Guiochon, G., see El Fallah, M. Z. 522(1990)1
- Guiochon, G., see Golshan-Shirazi, S. 506(1990)495
- Guiochon, G., see Golshan-Shirazi, S. 511(1990)402
- Guiochon, G., see Golshan-Shirazi, S. 517(1990)229
- Guiochon, G., see Golshan-Shirazi, S. 523(1990)1
- Guiochon, G., see Golshan-Shirazi, S. 536(1991)57
- Guiochon, G., see Golshan-Shirazi, S. 541(1991)195
- Guiochon, G., see Golshan-Shirazi, S. 545(1991)1
- Guiochon, G., see Huang, J.-X. 504(1990)335
- Guiochon, G., see Jacobson, S. 522(1990)23
- Guiochon, G., see Katti, A. M. 540(1991)1
- Guiochon, G., see Lin, B. 508(1990)27
- Guiochon, G., see Lin, B. 542(1991)1
- Guiochon, G., see Newburger, J. 523(1990)63
- Guiochon, G. A.
Process chromatography, a practical guide (by G. K. Sofer and L. E. Nystrom) (Book Review) 509(1990)411
- Gulino, D., see Jacquot Dourges, M. A. 526(1990)35
- Gülz, P.-G., see Vogt, T. 537(1991)453
- Gunawan, S., Walton, N. Y. and Treiman, D. M.
High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177
- Gundersen, J. L., see Hale, R. C. 539(1991)149

- Guo, B. and Wan, H.
Rapid determination of caffeine in green tea by gas-liquid chromatography with nitrogen-phosphorus-selective detection 505(1990)435
- Guo, D. and Horak, A.
Purification of the subunits of pea mitochondrial F₁-ATPase by high-performance liquid chromatography 521(1990)43
- Guo, L., see Geng, X. 507(1990)1
- Guo, R. and Lim, C. K.
Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603
- Guo, Y.-Y., see Qian, X.-X. 515(1990)257
- Gupta, K. C., Gaur, R. K. and Sharma, P.
Use of the 4-methoxy-4'-octyloxytrityl group as an affinity handle for the purification of synthetic oligonucleotides 541(1991)341
- Gupta, N., see Upadhyay, R. K. 542(1991)531
- Gupta, R. N.
Improved stability of phenylbutazone for its determination by liquid chromatography 530(1990)160
- Gustafsson, B., see Polacek, J. 526(1990)151
- Gustafsson, L. L., see Villén, T. 529(1990)309
- Gustafsson, S., Eriksson, B.-M. and Nilsson, I.
Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75
- Gustavsson, B. and Betnér, I.
Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67
- Gutierrez, L., see Rustum, A. M. 503(1990)115
- Gutjahr, F., see Grübler, G. 512(1990)249
- Gutjahr, U., see Kramer, W. 521(1990)199
- Gutmann, V., see Han, L.-F. 543(1991)123
- Guzman, N. A., see Hernandez, L. 502(1990)247
- Gyllenhaal, O., Grönberg, L. and Vessman, J.
Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303
- Gyllenhaal, O. and Vessman, J.
Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415
- Gyllenhaal, O., see Carlsson, Å. 508(1990)333
- Ha, P. T., see Volmut, J. 527(1990)428
- Ha, S. C., see Abidi, S. L. 522(1990)179
- Haas, H. J., see Assmann, B. 525(1990)277
- Haas, H. J., see Klein, C. M. 529(1990)431
- Haas, III, J. W. and Uden, P. C.
Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609
- Haasnoot, W., Ploum, M. E., Paulussen, R. J. A., Schilt, R. and Huf, F. A.
Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323
- Haberland, D., see Thede, R. 520(1990)109
- Hack, M. H. and Helmy, F. M.
Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339
- Hada, T., see Ikarashi, Y. 533(1990)23
- Hadas, E., Koppel, R., Schwartz, F., Raviv, O. and Fleminger, G.
Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303
- Hadas, E., see Fleminger, G. 510(1990)271
- Hadas, E., see Fleminger, G. 510(1990)311
- Hadas, E., see Solomon, B. 539(1991)335
- Haddad, P. R., see Buchberger, W. 546(1991)311
- Haddad, P. R., see Fagan, P. A. 550(1991)559
- Haddad, P. R., see Marheni 546(1991)221
- Haddad, P. R., see Sosimenko, A. D. 546(1991)37
- Haddouche, A., see Guinebault, P. 525(1990)359
- Haen, E., Hagenmaier, H. and Remien, J.
Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514
- Haerdi, W., see Chambaz, D. 541(1991)443
- Haerdi, W., see Veuthey, J.-L. 515(1990)385
- Häfele, R., see Oefner, P. 516(1990)251
- Hafez, A., see Goyal, S. S. 537(1991)269
- Hafez, A. A., Goyal, S. S. and Rains, D. W.
Use of ion chromatography in agricultural research (Review) 546(1991)387

- Haff, L. A., see Katz, E. D. 512(1990)433
- Hagedorn, H. H., see Wheelock, G. D. 542(1991)508
- Hagen, S., see Ellingsen, T. 535(1990)147
- Hagenmaier, H., see Haen, E. 537(1991)514
- Haginaka, J. and Nishimura, Y.
Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87
- Haginaka, J. and Wakai, J.
Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317
- Haginaka, J., Wakai, J. and Yasuda, H.
Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163
- Haginaka, J., Wakai, J., Yasuda, H. and Kimura, Y.
Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455
- Haginaka, J., Wakai, J., Yasuda, N., Yasuda, H. and Kimura, Y.
Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59
- Haglund, P., Asplund, L., Järnberg, U. and Jansson, B.
Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl)ethyltrimethylsilylated silica column 507(1990)389
- Hahn, A., Flaig, K. H. and Rehner, G.
Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91
- Hahn, A., Stein, J., Rump, U. and Rehner, G.
Optimized high-performance liquid chromatographic procedure for the separation and quantification of the main folacins and some derivatives. I. Chromatographic system 540(1991)207
- Hahne, F., Kraus, G. and Zschke, H.
Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85
- Hahn-Hägerdal, B., see Marko-Varga, G. 506(1990)423
- Hahn-Hägerdal, B., see Marko-Varga, G. 523(1990)173
- Haken, J. K.
Inverse GC characterization of polymers and other materials (edited by D. R. Lloyd, T. C. Ward and H. P. Schreiber) (Book Review) 503(1990)473
- Haken, J. K.
Polymer thermodynamics by GC (by R. Vilcu and M. Leca) (Book Review) 542(1991)549
- Haken, J. K. and Abraham, F.
Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155
- Hakusui, H., see Nakaoka, M. 526(1990)254
- Haky, J. E., Raghani, A. and Dunn, B. M.
Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303
- Haky, J. E., Vemulapalli, S. and Wieserman, L. F.
Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307
- Halbrügge, M. and Walter, U.
Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335
- Hale, R. C., Bush, E., Gallagher, K., Gundersen, J. L. and Mothershead, II, R. F.
Separation of polychlorinated terphenyls from lipoidal material by preparative gel permeation chromatography and gas chromatography 539(1991)149
- Hall, C. A., see Gorecki, D. K. J. 528(1990)333
- Hall, C. D., see Marvin, C. H. 503(1990)167
- Hall, C. D., see Marvin, C. H. 518(1990)242
- Hall, J. E., see Meyer, J. C. 522(1990)213
- Hall, K. W., see Valentin, J. R. 518(1990)199
- Hall, S. D., see Rudy, A. C. 528(1990)395
- Halline, A. G. and Brasitus, T. A.
Reversed-phase high-performance liquid chromatographic method for the measurement of polyamine oxidase activity 533(1990)187
- Hamada, N., see Horie, M. 502(1990)371
- Hamano, T., Mitsuhashi, Y., Aoki, N., Yamamoto, S., Tsuji, S., Ito, Y. and Oji, Y.
Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

- Hambling, S. G., see Lisseter, S. G. 539(1991)207
- Hamid, H. A., see Al-Ammar, A. S. 537(1991)287
- Hamm, K., see Mross, K. 530(1990)192
- Hammons, K., see Dutta, P. K. 536(1991)113
- Han, L.-F., Nowicky, W. and Gutmann, V. Reversed-phase high-performance liquid chromatographic separation of tertiary and quaternary alkaloids from *Chelidonium majus* L. 543(1991)123
- Han, L. H., see Chen, B. H. 543(1991)147
- Hanada, Y., see Terashi, A. 503(1990)369
- Hanai, T. Structure-retention correlation in liquid chromatography (Review) 550(1991)313
- Hanai, T., see Hirukawa, M. 507(1990)95
- Hanaoka, N. Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155
- Hanazaki, Y., see Fukui, S. 541(1991)459
- Hancock, F. E., see Lindsay Smith, J. R. 547(1991)447
- Hancock, J. R. and Peters, G. R. Retention index monitoring of compounds of chemical defence interest using thermal desorption gas chromatography 538(1991)249
- Hancock, W. S., see Frenz, J. 512(1990)299
- Hancock, W. S., see Wu, S.-L. 516(1990)115
- Haney, M. A., see Dutta, P. K. 536(1991)113
- Hannan, R. M. and Hill, Jr., H. H. Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393
- Hansel, S. B., see Morris, M. E. 532(1990)285
- Hansen, B., see Linde, S. 530(1990)29
- Hansen, D., see Zhu, M. 516(1990)123
- Hansen, M. E. and Short, D. C. Optimization study of octane-in-water emulsions by sedimentation field-flow fractionation 517(1990)333
- Hansen, P., see Porath, J. 550(1991)751
- Hansen, S. H., Helboe, P. and Thomsen, M. Bare silica, dynamically modified with long-chain quaternary ammonium ions – the technique of choice for more reproducible selectivity in reversed-phase high-performance liquid chromatography (Review) 544(1991)53
- Hansen, S. H., see Tjørnelund, J. 530(1990)227
- Hanson, M., Unger, K. K. and Schomburg, G. Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269
- Hara, S., see Uchida, T. 506(1990)327
- Harada, K., see Nishimura, K. 525(1990)176
- Harada, K., see Sugii, A. 544(1991)219
- Harada, K.-I., Ikai, Y., Yamazaki, Y., Oka, H., Suzuki, M., Nakazawa, H. and Ito, Y. Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203
- Harada, K.-I., see Ikai, Y. 541(1991)393
- Harada, K.-I., see Meriluoto, J. A. O. 509(1990)390
- Harada, K.-I., see Oka, H. 538(1991)149
- Harada, K.-I., see Oka, H. 538(1991)213
- Harada, M., Fukasawa, K. M., Hiraoka, B. Y., Fukasawa, K. and Mogi, M. High-performance liquid chromatographic procedure for the determination of serum prolidase activity 530(1990)116
- Harada, M., Mogi, M., Hiraoka, B. Y., Fukasawa, K., Fukasawa, K. M., Takagi, T. and Sasaki, S. Determination of proline iminopeptidase activity in bovine dental germs by high-performance liquid chromatography 527(1990)158
- Haraguchi, H., see Takeuchi, T. 517(1990)257
- Harbak, H., see Christensen, S. 533(1990)201
- Harding, D. R. K., see Poll, D. J. 539(1991)37
- Hardy, J. A., see Ryan, J. J. 541(1991)131
- Hardy, M., see Weitzhandler, M. 510(1990)225
- Hargiss, L. O., see Kalinoski, H. T. 505(1990)199
- Hargitai, T., Reinholdsson, P., Törnell, B. and Isaksson, R. Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145
- Harima, N., see Takamura, K. 543(1991)241
- Harimoto, T., see Nishioka, R. 526(1990)210
- Harino, H., Kimura, K., Tanaka, M. and Shono, T. Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107
- Harke, H., see Swerdlow, H. 516(1990)61
- Härmälä, P., Vuorela, H., Lehtonen, P. and Hiltunen, R. Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367
- Harmatz, J. S., see Greenblatt, D. J. 534(1990)202
- Harmenberg, J., Cox, S. and Åkesson-Johansson, A. Improved sample preparation method for high-performance liquid chromatography of

- deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75
- Harrington, J. P., see Duffy, L. K. 512(1990)291
- Hart, B. T., see Beckett, R. 517(1990)435
- Hart, R. W., see Martinez, G. 533(1990)235
- Hartling, S. G., see Linde, S. 548(1991)371
- Hartman, P. A., see Stodola, J. D. 502(1990)401
- Hartmann, D. J., see Ricard-Blum, S. 530(1990)432
- Hartnack, S., see Meineke, I. 526(1990)240
- Harter, E., see Missbichler, A. 510(1990)339
- Hartvig, P. and Långström, B.
Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303
- Hartwick, R. A., see Wang, T. 523(1990)23
- Harvey, G. A., see Rackham, D. M. 542(1991)189
- Harvey, S.
Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125
- Harvey, S.
Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209
- Harvey, S. D., Fellows, R. J., Cataldo, D. A. and Bean, R. M.
Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361
- Hasegawa, A., see Teramachi, S. 547(1991)429
- Hashimoto, H., see Katayama, N. 519(1990)221
- Hashimoto, T.
Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249
- Hashimoto, T.
Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257
- Hashimoto, T., see Kato, Y. 502(1990)416
- Hashimoto, T., see Kato, Y. 513(1990)384
- Hashimoto, T., see Nakamura, K. 510(1990)101
- Hashimoto, T., see Nakamura, K. 513(1990)367
- Hashimoto, Y., see Nakanuma, R. 527(1990)208
- Hashizume, K., see Tanaka, N. 544(1991)319
- Hasler, A., Sticher, O. and Meier, B.
High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236
- Hassan, N. A., Al-Ani, M. R., Lafta, A. M. and Kassir, Z. A.
Value of breath hydrogen test in detection of hypolactasia in patients with chronic diarrhoea 530(1990)102
- Hassanzadeh, M. K., Aweeka, F. T., Wu, S., Jacobson, M. A. and Gambertoglio, J. G.
Determination of phosphonoformic acid in human plasma and urine by high-performance liquid chromatography with electrochemical detection 525(1990)133
- Hasson, H. and Warshawsky, A.
High-performance liquid chromatographic determination of *cis*-diamminedichloro-platinum(II) (cisplatin) as the *o*-phenylenediamine complex 530(1990)219
- Hasunuma, R., Ogawa, T., Ishii, J. and Kawanishi, Y.
Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397
- Hata, T., see Takada, K. 530(1990)212
- Hatada, K., see Okamoto, Y. 513(1990)375
- Hatano, H., see Naikwadi, K. P. 511(1990)281
- Hatta, Y., see Tomita, M. 526(1990)174
- Hattori, H., Takashima, E., Yamada, T. and Suzuki, O.
Detection of tricyclic antidepressants in body fluids by gas chromatography with a surface ionization detector 529(1990)189
- Hattori, M., see Morita, I. 526(1990)367
- Hauck, H. E., see Cserháti, T. 514(1990)45
- Hauksdottir, R., see Stevenson, P. J. 533(1990)248
- Haven, M. C., see Markin, R. S. 525(1990)464
- Hawkins, M. E., Poplack, D. G., Pizzo, P. A. and Balis, F. M.
High-performance liquid chromatographic method for the analysis of 2',3'-dideoxycytidine in human plasma 532(1990)442
- Hawthorne, S. B., Miller, D. J., Walker, D. D., Whittington, D. E. and Moore, B. L.
Quantitative extraction of linear alkylbenzenesulfonates using supercritical carbon dioxide and a simple device for adding modifiers 541(1991)185
- Hawtrey, A. O., see Uebel, R. A. 526(1990)293
- Hayakawa, J., see Ikai, Y. 541(1991)393
- Hayakawa, J., see Oka, H. 538(1991)149
- Hayakawa, K., Imaizumi, N., Ishikura, H., Minogawa, E., Takayama, N., Kobayashi, H. and Miyazaki, M.
Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459
- Hayakawa, K., see Oizumi, J. 529(1990)55
- Hayashi, M., see Iida, J. 515(1990)503

- Hayashi, S., see Usui, H. 515(1990)375
- Hayashi, T., Todoriki, H. and Iida, Y.
Highly sensitive method for the determination of 1-methyl-1,2,3,4-tetrahydro- β -carboline using combined capillary gas chromatography and negative-ion chemical ionization mass spectrometry 528(1990)1
- Hayashi, Y. and Matsuda, R.
Information theory of column chromatography on the basis of the information measure FUMI 513(1990)349
- Hayashibara, M., see Naora, K. 530(1990)186
- Hayashida, M., Nihira, M., Watanabe, T. and Jinno, K.
Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133
- Hayball, P. J., Cosh, D. G. and Wrobel, J.
Rapid, sensitive determination of human serum midazolam by high-performance liquid chromatography 528(1990)526
- Hayes, G. E.
Direct determination of corrosion inhibitor in aviation fuel by a column-switching technique using gel-permeation chromatography 508(1990)259
- Haynes, P. A., Sheumack, D., Kibby, J. and Redmond, J. W.
Amino acid analysis using derivatisation with 9-fluorenylmethyl chloroformate and reversed-phase high-performance liquid chromatography 540(1991)177
- Häyri, L., see Vainiotalo, S. 523(1990)273
- Hazai, I. and Ledniczy, L.
Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149
- Hazebroucq, G., see Gimenez, F. 529(1990)339
- Hazum, E.
Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233
- He, L.-Y., see Niu, C.-Q. 542(1991)193
- He, L.-Y., see Oshima, T. 547(1991)175
- He, Y., see Hu, H. 547(1991)494
- Hearn, M. T. W. and Davies, J. R.
Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23
- Hearn, M. T. W., Hodder, A. N., Fang, F. W. and Aguilar, M. I.
High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117
- Hearn, M. T. W., see Fridman, M. 512(1990)57
- Hearn, M. T. W., see Hodder, A. N. 506(1990)17
- Hearn, M. T. W., see Hodder, A. N. 507(1990)33
- Hearn, M. T. W., see Hodder, A. N. 512(1990)41
- Hearn, M. T. W., see Hodder, A. N. 517(1990)317
- Hearn, M. T. W., see Janzen, R. 522(1990)77
- Hearn, M. T. W., see Johnston, A. 512(1990)101
- Hearn, M. T. W., see Johnston, A. 548(1991)127
- Hearn, M. T. W., see Mao, Q. M. 548(1991)147
- Hearn, M. T. W., see Wilce, M. C. J. 536(1991)165
- Hearn, M. T. W., see Wilce, M. C. J. 548(1991)105
- Hearn, M. T. W., see Wirth, H. J. 550(1990)383
- Heberling, S., see Campbell, D. L. 546(1991)229
- Heble, M. R., see Sipahimalani, A. T. 538(1991)452
- Heckenberg, A. L., see Jackson, P. E. 546(1991)405
- Heese, P., see Ehwald, R. 542(1991)239
- Heidrich, S., see Zobel, H. 509(1990)27
- Heiger, D. N., Cohen, A. S. and Karger, B. L.
Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33
- Heilmann, S. M., see Coleman, P. L. 512(1990)345
- Heine, A., see Heitefuss, S. 532(1990)374
- Heitefuss, S., Heine, A. and Seifert, H. S. H.
Detection of non-volatile organic acids by head-space gas chromatography 532(1990)374
- Heizmann, P., Dell, D., Eggers, H. and Gora, R.
Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91
- Heizmann, P., Geschke, R. and Zinapold, K.
Determination of ornidazole and its main metabolites in biological fluids 534(1990)233
- Hejzlar, J., see Kopáček, P. 545(1991)461
- Hekster, Y. A., see Vree, T. B. 526(1990)581
- Helboe, P.
Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

- Helboe, P., see Hansen, S. H. 544(1991)53
 Helboe, P., see Kryger, S. 539(1991)186
 Helligren, U., Villén, T. and Ericsson, Ö.
 High-performance liquid chromatographic determination of quinine in plasma, whole blood and samples dried on filter paper 528(1990)221
 Helling, C. S., see Lydon, J. 536(1991)223
 Hellman, U., see Renlund, S. 512(1990)325
 Helmer, J. C., see Salomon, K. 549(1991)375
 Helms, M., see Zobel, H. 509(1990)27
 Helmy, F. M., see Hack, M. H. 525(1990)339
 Hempenius, J., see Wieling, J. 545(1991)101
 Henderson, I. K., Saari-Nordhaus, R. and Anderson, Jr., J. M.
 Sample preparation for ion chromatography by solid-phase extraction 546(1991)61
 Henderson, I. K., see Saari-Nordhaus, R. 546(1991)89
 Henderson, L., see Powell, M. L. 529(1990)237
 Hendle, J., see Kalisz, H. M. 521(1990)245
 Hendrickson, R. L., see Ladisch, M. R. 540(1991)85
 Hendriks, H. E. J., see Verhaar, L. A. T. 549(1991)113
 Henion, J., see Huang, E. 511(1990)257
 Henion, J. D., see McLaughlin, L. G. 529(1990)1
 Henke, W., Nickel, E. and Jung, K.
 Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498
 Henry, M. P.
 Design requirements of silica-based matrices for biopolymer chromatography 544(1991)413
 Heping, W., Pacáková, V., Štulík, K. and Barth, T.
 Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244
 Herbreteau, B., Lafosse, M., Morin-Allory, L. and Dreux, M.
 Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299
 Herd, B., see Kamali, F. 530(1990)222
 Herlin, C., see Jehl, F. 525(1990)225
 Herma, H., see Krause, E. 520(1990)263
 Hermann, P., see Dudek, S. 520(1990)333
 Hermanson, G. T., see Domen, P. L. 510(1990)293
 Hermansson, J., see Enquist, M. 519(1990)271
 Hermansson, J., see Enquist, M. 519(1990)285
 Hermezc, I., see Papp, O. 537(1991)365
 Hermezc, I., see Papp, O. 537(1991)377
 Hernadi, F. J., see Gál, S. 545(1991)189
 Hernandez, L., Marquina, R., Escalona, J. and Guzman, N. A.
 Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247
 Hernández, L. M., see Jiménez, B. 523(1990)265
 Herold, M. and Leistler, B.
 Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383
 Herranen, J., see Parviainen, M. T. 525(1990)193
 Herrera, R. J., see Leff, V. 547(1991)462
 Herron, J. N., see Lin, J.-N. 542(1991)41
 Herslöf, B. G., see Olsson, U. 505(1990)385
 Herterich, R.
 Gas chromatographic determination of nitrophenols in atmospheric liquid water and airborne particulates 549(1991)313
 Hertz, C. D., see Schnabel, J. G. 513(1990)47
 Herve, F., Duche, J.-C., Sportes, N. and Tillement, J.-P.
 High-performance anion-exchange chromatographic study of desialylated human α_2 -acid glycoprotein variants. Development of a fractionation method for the protein slow variants 539(1991)405
 Herzig, C., see Scherberich, J. E. 521(1990)279
 Herzogová, G., see Hušek, P. 533(1990)166
 Hesse, W. H., Schweer, H., Seyberth, H. W. and Peskar, B. A.
 Separation and determination of prostaglandin E, metabolites by high-performance liquid chromatography 533(1990)159
 Hesse, G. A., see Matuszewski, B. K. 526(1990)461
 Hessing, T. J., see Edelbroek, P. M. 530(1990)347
 Hetem, M. J. J., De Haan, J. W., Claessens, H. A., Cramers, C. A., Degee, A. and Schomburg, G.
 Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53
 Heulin, M. H., see Straczek, J. 532(1990)237
 Heulin, M. H., see Straczek, J. 533(1990)35
 Hevesi, T., Krupčík, J. and Sandra, P.
 Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

- Heyes, M. P. and Quearry, B. J.
Quantification of kynurenic acid in cerebrospinal fluid: effects of systemic and central L-kynurenine administration 530(1990)108
- Heyworth, P., see Leoni, P. 527(1990)152
- Hibi, K., see Fujimori, H. 515(1990)363
- Hibi, K., see Fujimori, H. 528(1990)305
- Hibi, K., see Higashidate, S. 515(1990)577
- Hibi, K., see Kurosu, Y. 515(1990)407
- Hicks, K. B., see Sapers, G. M. 503(1990)431
- Hicks, R. D., see Byrd, G. D. 503(1990)359
- Hicks, R. D., see Nanni, E. J. 505(1990)365
- Hidaka, T., see Suemitsu, R. 539(1991)211
- Hider, R. C., see Epemolu, R. O. 519(1990)171
- Hiemstra, M., see De Kok, A. 507(1990)459
- Higashi, A., see Fujii, J. 530(1990)469
- Higashi, T., see Kawai, S. 514(1990)29
- Higashidate, S., Hibi, K., Senda, M., Kanda, S. and Imai, K.
Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577
- Higashidate, S., Yamauchi, Y. and Saito, M.
Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295
- Higashiyama, K., see Kataoka, H. 528(1990)172
- Higuchi, S., see Soeishi, Y. 533(1990)291
- Higuchi, S., see Teramura, T. 528(1990)191
- Higuchi, S., see Watari, N. 530(1990)438
- Hiiro, K., see Fukushi, K. 518(1990)189
- Hiiro, K., see Fukushi, K. 523(1990)281
- Hill, D. A., Mace, P. and Moore, D.
Frontal chromatographic techniques in preparative chromatography 523(1990)111
- Hill, H. M., see Martinez, G. 533(1990)235
- Hill, H. M., see Selinger, K. 526(1990)597
- Hill, K. D., see Chamkasem, N. 536(1991)193
- Hill, T. L. and Mayhew, J. W.
Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415
- Hill, Jr., H. H., see Gallagher, M. M. 518(1990)297
- Hill, Jr., H. H., see Hannan, R. M. 547(1991)393
- Hill, Jr., H. H., see Morrissey, M. A. 505(1990)215
- Hille, J.
Enrichment and mass spectrometric analysis of trace impurity concentrations in gases 502(1990)265
- Hiltunen, R., see Härmälä, P. 507(1990)367
- Hiltunen, R., see Seppänen-Laakso, T. 530(1990)94
- Himmel, M., see Huse, K. 502(1990)171
- Hina, T., see Kuno, Y. 537(1991)489
- Hindmarsh, K. W., see Gorecki, D. K. J. 528(1990)333
- Hindriks, H., see Maris, F. A. 547(1991)45
- Hindriks, H., see Mulholland, M. 550(1991)257
- Hindriks, R., see Maris, F. 506(1990)211
- Hinkkanen, A., see Giegerich, G. 528(1990)79
- Hinneburg, D., see Popp, P. 520(1990)97
- Hiranuma, T., Horigome, T. and Sugano, H.
Separation of membrane protein-sodium dodecyl sulphate complexes by high-performance liquid chromatography on hydroxyapatite 515(1990)399
- Hiraoka, B. Y., see Harada, M. 527(1990)158
- Hiraoka, B. Y., see Harada, M. 530(1990)116
- Hirata, N., see Noguchi, K. 506(1990)145
- Hirata, Y., Minami, M., Naoi, M. and Nagatsu, T.
Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189
- Hirayama, C., Ihara, H. and Li, X.
Removal of endotoxins using macroporous spherical poly(γ -methyl L-glutamate) beads and their derivatives 530(1990)148
- Hirayama, F., see Oshima, T. 547(1991)175
- Hirayama, N. and Kuwamoto, T.
Influence of dissociation equilibria on the elution behaviour of the sample anion in anion chromatography 508(1990)51
- Hirayama, N., Maruo, M., Shiota, A. and Kuwamoto, T.
Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257
- Hiro, T., Kadofuku, T., Makino, Y. and Sato, T.
Detection of the exercise-associated changes in serum proteins by two-dimensional electrophoresis under non-denaturing conditions 528(1990)315
- Hirokami, M., see Matsumoto, M. 526(1990)1
- Hirokawa, T., Hu, J.-Y., Eguchi, S., Nishiyama, F. and Kiso, Y.
Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

- Hirokawa, T., Hu, J.-Y., Umeda, K., Kimura, G., Ikeda, H., Nishiyama, F. and Kiso, Y. Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297
- Hirokawa, T., Yokota, Y. and Kiso, Y. Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403
- Hirokawa, T., Yokota, Y. and Kiso, Y. Effect of sample composition on the separation efficiency of isotachopheresis 545(1991)267
- Hirose, S., see Kito, M. 528(1990)91
- Hirose, S., see Yoshida, S. 530(1990)57
- Hiršl-Starčević, S., see Alebić-Kolbah, T. 526(1990)556
- Hirukawa, M., Maeda, M., Tsuji, A. and Hanai, T. Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution 507(1990)95
- Hiyama, J. and Renwick, A. G. C. Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33
- Hjerpe, A., see Karamanos, N. K. 503(1990)421
- Hjertén, S. and Kiessling-Johansson, M. High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811
- Ho, J. W. Separation of porphyrins on cyclodextrin-bonded phases with a novel mobile phase 508(1990)375
- Ho, J. W. Micro assay for urinary δ -aminolevulinic acid and porphobilinogen by high-performance liquid chromatography with pre-column derivatization 527(1990)134
- Hoang, T. P., see Lacroix, C. 525(1990)240
- Hobbs, T. R., see Krueger, R. J. 543(1991)451
- Hobo, T., see Ogino, H. 541(1991)75
- Hobo, T., see Qian, X.-X. 515(1990)257
- Hocke, G., Kaffarnik, H., Münscher, G. and Steinmetz, A. Purification of human serum amyloid A by anion-exchange fast protein liquid chromatography 526(1990)203
- Hodder, A. N., Aguilar, M. I. and Hearn, M. T. W. High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17
- Hodder, A. N., Aguilar, M. I. and Hearn, M. T. W. High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41
- Hodder, A. N., Machin, K. J., Aguilar, M. I. and Hearn, M. T. W. High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33
- Hodder, A. N., Machin, K. J., Aguilar, M. I. and Hearn, M. T. W. High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317
- Hodder, A. N., see Hearn, M. T. W. 548(1991)117
- Hodges, R. S., Lorne Burke, T. W. and Mant, C. T. Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267
- Hodges, R. S., see Zhou, N. E. 548(1991)179
- Hodges, R. S., see Zhu, B.-Y. 548(1991)13
- Hoenders, H. J., see Flapper, W. 533(1990)47
- Hoff, D., see Rimmel, R. P. 534(1990)109
- Hoffman, T., see Brando, C. 529(1990)65
- Hoffmann, S., see Greibrokk, T. 505(1990)283
- Höflacher, B., see Soutschek, E. 521(1990)267
- Hofmann, D., see Bessems, G. J. H. 529(1990)277
- Hofmann, E., see Huse, K. 502(1990)171
- Hofmann, K. Method for long-term preservation of thin-layer polyacrylamide gels by producing a gelatine coating 538(1991)504
- Hofmann, U., Holzer, S. and Meese, C. O. Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

- Hogendoorn, E. A., De Jong, A. P. J. M., Van Zoonen, P. and Brinkman, U. A. T.
Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds.
Application to chloroallyl alcohol in ground water 511(1990)243
- Holden, C. L., see Laizure, S. C. 528(1990)235
- Holder, C. L., see Billedeau, S. M. 534(1990)151
- Holder, G. M., see Sugiyanto, 530(1990)337
- Holgersson, J., see Strömqvist, M. 548(1991)293
- Holick, M. F., see Young, D. C. 522(1990)295
- Hollinger, T. G., see Wallace, R. A. 519(1990)75
- Hollosi, M., see Otvos, Jr., L. 512(1990)265
- Holt, D. W., see Eastwood, R. J. 530(1990)463
- Holt, D. W., see Eastwood, R. J. 532(1990)187
- Holthuis, J. J. M., see Van der Horst, F. A. L. 507(1990)351
- Holzer, S., see Hofmann, U. 508(1990)349
- Homann, M. J., see Vail, R. B. 535(1990)317
- Homma, M., see Kouno, Y. 515(1990)321
- Honda, A., see Ukai, S. 513(1990)338
- Honda, M., see Okamoto, Y. 513(1990)375
- Honda, S., Suzuki, K., Kataoka, M., Makino, A. and Kakehi, K.
Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653
- Honda, S., Suzuki, S., Zaiki, S. and Kakehi, K.
Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189
- Honda, S., see Kakehi, K. 502(1990)297
- Hondmann, D. H. A. and Visser, J.
Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155
- Hong, E., see Flores-Murrieta, F. J. 528(1990)501
- Hooper, W. D., Kavanagh, M. C. and Dickinson, R. G.
Determination of gabapentin in plasma and urine by capillary column gas chromatography 529(1990)167
- Hooper, W. D., see Treston, A. M. 526(1990)59
- Hopkins, W. A. and Lauren, D. R.
Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442
- Hor, T. S. A., see Lim, K. B. H. 538(1991)492
- Horak, A., see Guo, D. 521(1990)43
- Hordijk, C. A., Burgers, I., Phylipsen, G. J. M. and Cappenberg, T. E.
Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317
- Hori, S., Ohtani, S., Miyasaka, K., Ishikawa, T. and Tanabe, H.
Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611
- Hori, S., Ohtani-Senuma, K., Ohtani, S., Miyasaka, K. and Ishikawa, T.
Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67
- Hori, T., see Tatsuhara, T. 526(1990)507
- Horie, M., Saito, K., Hoshino, Y., Nose, N., Hamada, N. and Nakazawa, H.
Identification and determination of sulphamethazine and N⁴-acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371
- Horie, M., Saito, K., Hoshino, Y., Nose, N., Nakazawa, H. and Yamane, Y.
Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484
- Horie, M., see Saito, K. 508(1990)141
- Horigome, T., see Hiranuma, T. 515(1990)399
- Horimoto, S., see Banno, K. 525(1990)255
- Horiuchi, K., see Suemitsu, R. 503(1990)282
- Horiuchi, K., see Suemitsu, R. 539(1991)211
- Horiuchi, M., see Morishima, K. 527(1990)381
- Horiuchi, M., see Suemitsu, R. 539(1991)211
- Hornedo-Nuñez, A., Getek, T. A., Korfmacher, W. A. and Simenthal, F.
High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217
- Horstmann, B. J., Chase, H. A. and Kenney, C. N.
Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised hapten 516(1990)433
- Horváth, A., see Szöke, B. 547(1991)121
- Horváth, C., see Antia, F. D. 550(1991)411
- Horváth, C., see Maa, Y.-F. 508(1990)61
- Horváthová, M., Šoltés, L., Mislovičová, D., Žúbor, V. and Fűgedi, A.
High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213
- Horváthová, M., see Mislovičová, D. 510(1990)197
- Horwitz, E. P., see Gatrone, R. C. 516(1990)395
- Hoshino, H., Nakano, K. and Yotsuyanagi, T.
Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-

- spectrophotometric system for trace metal determination 515(1990)603
- Hoshino, H., see Takamura, K. 543(1991)241
- Hoshino, H., see Takamura, K. 545(1991)201
- Hoshino, T., Takahashi, Y. and Suzuki, M.
Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531
- Hoshino, Y., see Horie, M. 502(1990)371
- Hoshino, Y., see Horie, M. 538(1991)484
- Hoshino, Y., see Saito, K. 508(1990)141
- Hosoe, M., see Kawada, K. 538(1991)355
- Hosono, K., see Yamazaki, Y. 542(1991)129
- Hosotsubo, H., see Hosotsubo, K. K. 529(1990)223
- Hosotsubo, K. K., Hosotsubo, H., Nishijima, M. K., Okada, T., Taenaka, N. and Yoshiya, I.
Rapid determination of serum levels of a new antifungal agent, fluconazole, by high-performance liquid chromatography 529(1990)223
- Hosoya, E., see Takeda, S. 530(1990)447
- Hosoya, K., see Kimata, K. 515(1990)73
- Hosoya, K., see Tanaka, N. 535(1990)13
- Hosoya, K., see Tanaka, N. 549(1991)29
- Hosoya, K., see Terabe, S. 516(1990)23
- Hossfeld, D. K., see Mross, K. 530(1990)192
- Hostettmann, K.
Counter-current chromatography: apparatus, theory and applications (by W. D. Conway) (Book Review) 547(1991)560
- Hostettmann, K., see Vallat, P. 504(1990)411
- Hotchin, D. M., see Beckett, R. 517(1990)435
- Hou, K. C. and Zaniewski, R.
Purification of urokinase by combined cation exchanger and affinity chromatographic cartridges 525(1990)297
- Houbová, H., see Stehlik, P. 529(1990)245
- Houbová, H., see Stehlik, P. 529(1990)251
- Houen, G.
Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146
- Houle, J. M., see Martinez, G. 533(1990)235
- Houngbedji, N. and Waisser, K.
Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400
- Housaki, T., see Nishikida, K. 517(1990)209
- Howard, S., see Bauer, J. F. 514(1990)348
- Howell, J. A., see Dantigny, P. 545(1991)27
- Howell, J. A., see Ming, F. 539(1991)255
- Hrabák, P., see Tvrzická, E. 530(1990)424
- Hradil, J., Švec, F., Aratskova, A. A., Belyakova, L. D. and Orlov, V. I.
Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369
- Hrinyo-Pavlina, T., see Tian, Z. 541(1991)297
- Hruby, V. J., see Toth, G. 504(1990)450
- Hsieh, J. Y.-K., see Chen, I.-W. 534(1990)119
- Hsieh, L. C., see Long, A. R. 505(1990)395
- Hsieh, Y., see Xie, F. 526(1990)109
- Hsu, C. L. and Walters, R. R.
Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621
- Hsu, J. T., see Diamond, A. D. 513(1990)137
- Hsu, M.-C. and Cheng, M.-C.
High-performance liquid chromatographic method for the determination of cloxacillin in commercial preparations and for stability studies 549(1991)410
- Hsu, R. S., DiLeo, E. M. and Chesson, S. M.
High-performance liquid chromatography for the determination of tacrine and its metabolites in plasma 530(1990)170
- Hu, C., see Lian, D.-X. 542(1991)526
- Hu, H., Zhu, M., He, Y. and Sun, K.
Study of large sample volume injection in a capillary gas chromatographic-Fourier transform infrared system using a retention gap column 547(1991)494
- Hu, J.-Y., see Hirokawa, T. 513(1990)297
- Hu, J.-Y., see Hirokawa, T. 538(1991)413
- Hu, O. Y.-P., Chang, S.-P., Song, Y.-B., Chen, K.-Y. and Law, C.-K.
Novel assay method for mitoxantrone in plasma, and its application in cancer patients 532(1990)337
- Hu, O. Y.-P., Wang, S.-Y., Fang, Y.-J., Chen, Y.-H. and King, M.-L.
Simultaneous determination of thimerosal and chlorhexidine in solutions for soft contact lenses and its applications in stability studies 523(1990)321
- Hu, W., see Takeuchi, T. 517(1990)257
- Hu, Y., see Xu, R. 547(1991)434
- Hua, S., see Lian, D.-X. 542(1991)526
- Hua, X., see Li, P. 538(1991)219
- Huang, E., Henion, J. and Covey, T. R.
Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257
- Huang, E. C., see Sumpter, S. R. 517(1990)503

- Huang, H.-P. and Morgan, E. D.
Analysis of azadirachtin by supercritical-
fluid chromatography 519(1990)137
- Huang, I.-Y., see Swadesh, J. K. 502(1990)359
- Huang, J.-X., Schudel, J. and Guiochon, G.
Adsorption behaviour of albumin and
conalbumin on TSK-DEAE 5PW anion
exchanger 504(1990)335
- Huang, S.-H., see Remmel, R. P. 534(1990)109
- Huang, S. S.
Evaluation of chemical structural
heterogeneity of cationic acrylamide
copolymers by high-performance liquid
chromatography 536(1991)203
- Huang, X. and Ohms, J. I.
Non-uniform electrical field effect caused by
different concentrations of electrolyte in
capillary zone electrophoresis 516(1990)233
- Huang, X. and Zare, R. N.
Continuous sample collection in capillary
zone electrophoresis by coupling the outlet
of a capillary to a moving surface
516(1990)185
- Huang, Z., see Zhang, A. 521(1990)128
- Hubbard, J. W., see Srinivas, N. R.
530(1990)327
- Hubble, J., see Dantigny, P. 545(1991)27
- Hubble, J., see Mayes, A. G. 539(1991)245
- Huber, R., Müller, W., Banks, M. C., Rogers, S.
J., Norwood, P. C. and Doyle, E.
High-performance liquid chromatographic
determination of the H⁺/K⁺ ATPase
inhibitor (BY 1023/SK&F 96 022) and its
sulphone metabolite in serum or plasma by
direct injection and fully automated pre-
column sample clean-up 529(1990)389
- Hubert, P., Mathis, R. and Dellacherie, E.
Polymer ligands for mild hydrophobic
interaction chromatography—principles,
achievements and future trends (Review)
539(1991)297
- Hubert, P., see Mathis, R. 538(1991)456
- Hudson, M. K., Fau, T., Underhill, K. and
Appelquist, S.
Flame infrared emission-flame ionization
detector for gas chromatography
513(1990)21
- Huf, F. A., see Haasnoot, W. 519(1990)323
- Huffer, M. and Schreier, P.
High-resolution gas chromatographic
resolution of chiral primary alcohols and
acids as their diastereomeric 1-phenylethyl
amides 519(1990)263
- Hughes, B., see Deistung, J. 539(1991)485
- Huguet, C., see Said, R. 530(1990)11
- Huhtikangas, A., see Martinsen, A.
539(1991)232
- Huhtikangas, A., see Ylinen, M. 505(1990)429
- Huisden, R. E., Kraak, J. C. and Poppe, H.
Modification of silica with glucose for the
separation of proteins by high-performance
liquid chromatography 508(1990)289
- Huisden, R. E., Kraak, J. C. and Poppe, H.
Method for the characterization of
stationary phases for the separation of
proteins by high-performance liquid
chromatography 537(1991)1
- Hulak, I., Nguyen, C., Girot, P. and Boschetti, E.
Immobilized Cibacron Blue—leachables,
support stability and toxicity on cultured
cells 539(1991)355
- Hulst, A. G., see Wils, E. R. J. 523(1990)151
- Hummel, M., see Buszewski, B. 520(1990)237
- Hummel, M., see Koppenhoefer, B.
547(1991)239
- Humphries, C. A., see Moody, J. P. 530(1990)19
- Hupé, M., see Ng, L.-K. 513(1990)61
- Hurtubise, R. J., see Mohseni, R. M.
514(1990)19
- Hurtubise, R. J., see Mohseni, R. M.
537(1991)61
- Husain, S., Alvi, S. N. and Rao, R. N.
High-performance liquid chromatographic
separation and determination of quinalphos
in technical and commercial formulations
502(1990)208
- Husain, S., Nageswara Sarma, P., Sajjad, S. M.,
Narsimha, R. and Subrahmanyam, M.
Determination of 2-methylpyrazine and
pyrazinamide in reaction mixtures by gas
and high-performance liquid
chromatography 513(1990)83
- Husain, S., Nageswara Sarma, P., Swami, G. Y.
S. K. and Narsimha, R.
Determination of chloropyridine isomers by
gas chromatography and high-performance
liquid chromatography in chlorpyrifos
process development 540(1991)331
- Huse, K., Himmel, M., Gärtner, G.,
Kopperschläger, G. and Hofmann, E.
Use of an activated nylon membrane
(Immunodyne) as an affinity adsorbent for
the purification of phosphofructokinase and
phosphoglycerate kinase from yeast
502(1990)171
- Hušek, P.
Simple approach for reversal of the
epinephrine-norepinephrine elution order in
ion-pair reversed-phase liquid
chromatography 532(1990)394
- Hušek, P.
Derivatization and gas chromatographic
determination of hydroxycarboxylic acids
treated with chloroformates 547(1991)307

- Hušek, P., Malíková, J. and Herzogová, G.
Determination of plasma catecholamines via
condensation with diphenylethylenediamine:
simplification of the procedure
533(1990)166
- Hussam, A., see Martire, D. E. 545(1991)135
- Hutchens, T. W. and Yip, T.-T.
Metal ligand-induced alterations in the
surface structures of lactoferrin and
transferrin probed by interaction with
immobilized copper(II) ions 536(1991)1
- Huth, J. A., see Markin, R. S. 525(1990)464
- Hutta, M., Marák, J. and Kaniansky, D.
Some possibilities of combining high-
performance liquid chromatography with
isotachopheresis for the trace determination
of ionogenic compounds present in complex
matrices 509(1990)271
- Hütz, A., Leyendecker, D., Schmitz, F. P. and
Klesper, E.
Isocratic networks in supercritical fluid
chromatography. III. Dependence of
capacity factor, selectivity and resolution on
temperature, pressure, density and free
volume of pentane as shown in multi-
dimensional plots 505(1990)99
- Huyghens, L., see Rosseel, M. T. 533(1990)224
- Huynh, O. T., see Tran, A. D. 542(1991)459
- Hwa Han, J., see Lavine, B. K. 542(1991)29
- Hynning, P.-Å., see Remberger, M.
508(1990)159
- Hyver, K. J., see Wilson, W. H. 540(1991)77
- I
- Iadarola, P., Zapponi, M. C., Minchiotti, L.,
Meloni, M. L., Galliano, M. and Ferri, G.
Separation of fragments from human serum
albumin and its charged variants by
reversed-phase and cation-exchange high-
performance liquid chromatography
512(1990)165
- Ichida, A., see Fukui, Y. 515(1990)85
- Ichikawa, N., see Naora, K. 530(1990)186
- Idei, M., see Szöke, B. 547(1991)121
- Ihara, H., see Hirayama, C. 530(1990)148
- Iida, J., Hayashi, M., Murata, T., Ono, M.,
Inoue, K. and Fujita, T.
Identification of a new minor iridoid
glycoside in *Symplocos glauca* by
thermospray liquid chromatography-mass
spectrometry 515(1990)503
- Iida, K. and Kajiwara, M.
Isolation of the insect metabolite trehalose
by high-performance liquid
chromatography 515(1990)573
- Iida, T., Komatsubara, I., Chang, F. C., Goto, J.
and Nambara, T.
Capillary gas chromatographic behavior of
stereoisomeric bile acids with a *vicinal* glycol
structure by their "mixed" alkylboronate
derivatives 537(1991)345
- Iida, Y., see Hayashi, T. 528(1990)1
- Ikai, Y., Oka, H., Kawamura, N., Hayakawa, J.,
Yamada, M., Harada, K.-I., Suzuki, M. and
Nakazawa, H.
Improvement of chemical analysis of
antibiotics. XVII. Application of an amino
cartridge to the determination of residual
sulphonamide antibacterials in meat, fish
and egg 541(1991)393
- Ikai, Y., see Harada, K.-I. 538(1991)203
- Ikai, Y., see Oka, H. 538(1991)149
- Ikarashi, Y., Hada, T., Way, E. L. and
Maruyama, Y.
Determination of succinylcholine hydrolytic
enzyme activity in human plasma
533(1990)23
- Ikeda, H., see Hirokawa, T. 513(1990)297
- Ikeda, K., Suzuki, S. and Watanabe, Y.
Determination of sunscreen agents in
cosmetic products by gas chromatography
and gas chromatography-mass
spectrometry 513(1990)321
- Ikeda, Y., see Fujii, Y. 508(1990)241
- Ikemoto, S., see Isoda, N. 527(1990)315
- Ikemoto, S., see Isoda, N. 534(1990)47
- Ikemoto, S., see Kajii, E. 533(1990)207
- Ikesaki, T., see Ngan, F. 537(1991)385
- Ilg, M., Maier-Rosenkranz, J., Müller, W. and
Bayer, E.
Magnetic resonance imaging in reversed-
phase liquid chromatography 517(1990)263
- Imai, K., see Higashidate, S. 515(1990)577
- Imaizumi, N., see Hayakawa, K. 515(1990)459
- Imamura, T., Nagata, T., Kudo, K., Kimura, K.
and Noda, M.
Sensitive detection and determination of
cimetidine in human tissues with high-
performance liquid chromatography
534(1990)253

- Imamura, Y., Shibasaki, S., Kubo, T., Kogure, M., Ishii, Y., Gotoh, Y., Asai, S. and Ishikawa, K.
High-performance liquid chromatographic determination of *cis*-N-(1-benzyl-2-methylpyrrolidin-3-yl)-5-chloro-2-methoxy-4-methylaminobenzamide in rat blood and brain using electrochemical detection 526(1990)282
- Imanari, T., see Koshiishi, I. 532(1990)37
- Imaoka, S., see Abe, J. 526(1990)562
- Imazawa, M., see Shimamura, M. 526(1990)535
- Inaba, T., see Tyndale, R. F. 529(1990)182
- Inada, E., see DeBros, F. 529(1990)449
- Inagaki, H., see Fukuda, T. 511(1990)59
- Incorvia Mattina, M. J.
Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237
- Inczédy, J. and Szokoli, F.
Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309
- Inotsume, N., see Fujii, J. 530(1990)469
- Inotsume, N., see Okamoto, Y. 513(1990)375
- Inoue, K., see Iida, J. 515(1990)503
- Inoue, S. and Ohtaki, N.
Binding capacities of hydroxyapatite for globular proteins 515(1990)193
- Inoue, T., see Ohta, T. 543(1991)59
- Iozzi, L. C., see Benzi, L. 534(1990)37
- Irgens, L. H., see Vigh, G. 502(1990)11
- Irth, H., see Marko-Varga, G. 523(1990)173
- Irth, H., see Stegehuis, D. S. 538(1991)393
- Isaksson, R., see Erlandsson, P. 532(1990)305
- Isaksson, R., see Hargitai, T. 540(1991)145
- Isemura, T., see Terabe, S. 515(1990)667
- Ishida, K., Ninomiya, S., Uchida, Y. and Osawa, M.
Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium (IV) on silica gel in mineral acid-hydrogen peroxide media 539(1991)169
- Ishigami, A., see Kawasaki, N. 503(1990)237
- Ishihama, Y., see Terabe, S. 545(1991)359
- Ishii, D., see Goto, M. 515(1990)213
- Ishii, D., see Takeuchi, T. 517(1990)257
- Ishii, J., see Hasunuma, R. 537(1991)397
- Ishii, S.-I., see Abe, Y. 510(1990)95
- Ishii, Y., see Imamura, Y. 526(1990)282
- Ishikawa, K., see Imamura, Y. 526(1990)282
- Ishikawa, K., see Shibasaki, S. 532(1990)249
- Ishikawa, N., see Sato, Y. 507(1990)25
- Ishikawa, T., see Hori, S. 515(1990)67
- Ishikawa, T., see Hori, S. 515(1990)611
- Ishikawa, T., see Yamakawa, Y. 506(1990)319
- Ishikawa, T., see Yamakawa, Y. 515(1990)563
- Ishikura, C., see Kouno, Y. 515(1990)321
- Ishikura, H., see Hayakawa, K. 515(1990)459
- Ishizaki, I., see Echizen, H. 526(1990)296
- Ishizaki, T., see Kubota, K. 533(1990)255
- Isimer, A., see Basci, N. E. 527(1990)174
- Islam, M. R., see Aboul-Enein, H. Y. 511(1990)109
- Isobe, T., see Matsuoka, K. 515(1990)313
- Isobe, T., see Usui, H. 515(1990)375
- Isoda, N., Kajii, E., Ikemoto, S. and Kimura, K.
Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis 527(1990)315
- Isoda, N., Kajii, E., Ikemoto, S. and Kimura, K.
Two-dimensional polyacrylamide gel electrophoretic pattern of duodenal tumour proteins 534(1990)47
- Itakura, K., see Verbesselt, R. 526(1990)515
- Italia, A., Schiavi, M. and Ventura, P.
Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266
- Ito, H., Yamamoto, H., Kimura, Y., Kambe, H., Okochi, T. and Kishimoto, S.
Affinity chromatography of human plasma gelsolin with polyphosphate compounds on immobilized Cibacron Blue F3GA 526(1990)397
- Ito, K., Shoto, E. and Sunahara, H.
Ion chromatography of inorganic iodine species using C_{18} reversed-phase columns coated with cetyltrimethylammonium 549(1991)265
- Ito, K. and Sunahara, H.
Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121
- Ito, Y.
Recent advances in counter-current chromatography (Review) 538(1991)3
- Ito, Y.
Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). II. Speculation on the hydrodynamic mechanism in stationary phase retention 538(1991)67
- Ito, Y., Kitazume, E., Bhatnagar, M. and Trimble, F. D.
Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). I. Design of the apparatus and studies on retention of stationary phase 538(1991)59

- Ito, Y., Kitazume, E. and Slemp, J. L.
Improved high-speed counter-current chromatograph with three multilayer coils connected in series. IV. Evaluation of preparative capability with large multilayer coils 538(1991)81
- Ito, Y., see Apud, J. A. 538(1991)177
- Ito, Y., see Cahnmann, H. J. 538(1991)165
- Ito, Y., see Hamano, T. 541(1991)265
- Ito, Y., see Harada, K.-I. 538(1991)203
- Ito, Y., see Kitazume, E. 538(1991)133
- Ito, Y., see Li, P. 538(1991)219
- Ito, Y., see Oka, F. 538(1991)99
- Ito, Y., see Oka, H. 538(1991)149
- Ito, Y., see Oka, H. 538(1991)213
- Ito, Y., see Shibusawa, Y. 550(1991)695
- Ito, Y., see Tsai, R.-S. 538(1991)119
- Ito, Y., see Weisz, A. 538(1991)157
- Itoh, K., see Jinno, K. 517(1990)193
- Itoh, T., see Kamisaki, Y. 529(1990)417
- Itokawa, H., see Oshima, T. 547(1991)175
- Ivanchev, S. S., see Dmitrenko, A. V. 520(1990)21
- Ivanov, A., see Kamberov, E. 525(1990)307
- Ivanov, S., see Chaney, C. 520(1990)33
- Ivanov, S., see Gavriloova, T. B. 520(1990)41
- Ivanova, I., see Kovacheva, E. 509(1990)79
- Ivanova, L. A., see Karabanov, N. T. 508(1990)193
- Ivory, C. F., see Gobie, W. A. 516(1990)191
- Iwaki, K., Okumura, N., Yamazaki, M., Nimura, N. and Kinoshita, T.
Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359
- Iwamoto, K., see Naora, K. 530(1990)186
- Iwamoto, K., see Seno, M. 508(1990)127
- Iwamoto, K., see Seno, M. 523(1990)293
- Iwamoto, S., see Kajii, E. 533(1990)207
- Izquierdo, R. C., see Andrés, M. D. 507(1990)399
- Izu, H., see Uchida, T. 506(1990)327
- J**
- Jackson, G., see Chong, P. 512(1990)227
- Jackson, P. E., Jandik, P., Li, J. B., Krol, J., Bondoux, G. and Gjerde, D. T.
Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189
- Jackson, P. E. and Jones, W. R.
Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497
- Jackson, P. E., Krol, J., Heckenberg, A. L., Mientjes, M. and Staal, W.
Determination of total nitrogen in food, environmental and other samples by ion chromatography after Kjeldahl digestion 546(1991)405
- Jackson, P. E., see Romano, J. 546(1991)411
- Jackson, P. E., see Wildman, B. J. 546(1991)459
- Jacob, III, P., see Zhang, Y. 525(1990)349
- Jacobson, M. A., see Hassanzadeh, M. K. 525(1990)133
- Jacobson, S., Golshan-Shirazi, S. and Guiochon, G.
Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23
- Jacquot-Dourges, M. A., Gulino, D., Courty, J., Badet, J., Barritault, D. and Jozefonvicz, J.
Affinity chromatography of fibroblast growth factors on substituted polystyrene 526(1990)35
- Jacquot-Dourges, M. A., Muller, D., Barritault, D. and Jozefonvicz, J.
High-performance affinity chromatography of basic fibroblast growth factor on polystyrene sulphonate resins modified with serine 510(1990)141
- Jacquot-Dourges, M. A., Zhou, F. L., Muller, D. and Jozefonvicz, J.
Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417
- Jadaud, P., see Silan, L. 532(1990)227
- Jaenisch, R., see Ruprecht, R. M. 528(1990)371
- Jafar, S. A., see Bartle, K. D. 517(1990)459
- Jäger, W., Czejka, M. J., Schüller, J., Fogl, U., Czejka, E. and Lackner, H.
Rapid and simple high-performance liquid chromatographic assay for 5'-fluorouracil in plasma for bioavailability studies 532(1990)411

- Jakovlev, S. A., see Adamia, T. V. 540(1991)441
- Jakubowski, E. M., Woodard, C. L., Mershon, M. M. and Dolzine, T. W.
Quantification of thiodiglycol in urine by electron ionization gas chromatography-mass spectrometry 528(1990)184
- Jallageas, J.-C., see Salles, C. 522(1990)255
- Jalonen, H., see Örn, G. 506(1990)627
- Jamali, F., see Piquette-Miller, M. 526(1990)129
- Jamaluddin, A. B. M., Sarwar, G., Rahim, M. A. and Rahman, M. K.
High-performance liquid chromatographic assay of rifampicin in human serum 525(1990)495
- James, E. A. and Do, D. D.
Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19
- James, I. T., Perrett, D. and Thompson, P. W.
Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43
- James, M. F. M., see Janicki, P. K. 518(1990)250
- Jameson, C. W., see Górski, T. 509(1990)383
- Jandera, P.
High performance liquid chromatography (edited by P. R. Brown and R. A. Hartwick) (Book Review) 509(1990)413
- Jandera, P.
Selectivity and detectability optimizations in HPLC (edited by S. Ahuja) (Book Review) 516(1990)480
- Jandera, P. and Prokeš, B.
Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495
- Jandera, P., Urbánek, J., Prokeš, B. and Churáček, J.
Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297
- Jandik, P. and Jones, W. R.
Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431
- Jandik, P., see Gjerde, D. T. 546(1991)151
- Jandik, P., see Jackson, P. E. 546(1991)189
- Jandik, P., see Jones, W. R. 546(1991)445
- Jandik, P., see Li, J. B. 546(1991)395
- Jandik, P., see Romano, J. 546(1991)411
- Janero, D. R. and Burghardt, C.
Solid-phase extraction on silica cartridges as an aid to platelet-activating factor enrichment and analysis 526(1990)11
- Jang, M. D., see Park, J. H. 513(1990)107
- Jang, N.-I., Brown, P. R. and Grushka, E.
Chromatographic characterization of some dideoxynucleosides 550(1991)507
- Janicki, P. K., Erskine, W. A. R. and James, M. F. M.
High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250
- Janicot, J. L., Caude, M., Rosset, R. and Veuthey, J. L.
Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247
- Janiczek, O., see Glatz, Z. 503(1990)197
- János, E. and Oros, G.
Reversed-phase thin-layer and gas chromatographic retention behaviour of triphenylmethane derivatives 520(1990)217
- Janoš, P.
Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473
- Janssen, H.-G. and Cramers, C. A.
Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19
- Janssen, H.-G., see Schoenmakers, P. J. 506(1990)563
- Janssen, M. G. A., see Wuis, E. W. 526(1990)575
- Janssen, P. S. L., see Van de Goor, T. A. A. M. 545(1991)379
- Janssen, T. J., see Lansdorp, D. 528(1990)487
- Jansson, B., see Haglund, P. 507(1990)389
- Jansson, M., see Emmer, Å. 547(1991)544
- Jansson, S. O., see Arvidsson, E. 506(1990)579
- Janzen, R., Unger, K. K., Müller, W. and Hearn, M. T. W.
Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77
- Janzsó, G., see Körtvélyessy, G. 507(1990)409
- Japp, M., see Weston, S. I. 538(1991)277
- Järnberg, U., see Haglund, P. 507(1990)389
- Jaroniec, M., see Gilpin, R. K. 513(1990)1
- Jarrett, H. W., see Goss, T. A. 508(1990)279
- Jarrett, H. W., see Lee, H. G. 511(1990)69
- Jarvi, E. J., see Patrick, K. S. 528(1990)214
- Jaufmann, L., see Djordjevic, N. M. 550(1991)27
- Jaulmes, A., see Cysewski, P. 548(1991)61
- Jaulmes, A., see Vidal-Madjar, C. 548(1991)81
- Javaid, J. I., see Greenblatt, D. J. 534(1990)202
- Jaziri, M., Diallo, B. and Vanhaelen, M.
Separation of quassinoids from *Ailanthus altissima* by high-speed counter-current chromatography 538(1991)227

- Jehl, F., Debs, J., Herlin, C., Quoix, E., Gallion, C. and Monteil, H.
Determination of navelbine and desacetylnavelbine in biological fluids by high-performance liquid chromatography 525(1990)225
- Jehl, F., Gallion, C. and Monteil, H.
High-performance liquid chromatography of antibiotics 531(1990)509
- Jen, S.-C. D. and Pinto, N. G.
Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87
- Jennissen, H. P., see Demiroglou, A. 521(1990)1
- Ji, H., see Chang, C. A. 522(1990)143
- Jiang, J., see Xie, F. 526(1990)109
- Jiang, X., see Kessler, W. 534(1990)67
- Jilge, G., see Cysewski, P. 548(1991)61
- Jiménez, B., González, M. J. and Hernández, L. M.
Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265
- Jiménez, J., Dufresne, M., Poirot, S., Vaysse, N. and Fourmy, D.
Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor 511(1990)333
- Jimenez-Conde, F., see Ling, C. F. 519(1990)359
- Jin, C.-L., see Chi, H. 543(1991)250
- Jin, H. L., see Armstrong, D. W. 502(1990)154
- Jin, H. L., see Li, W.-Y. 509(1990)303
- Jinno, K. and Fujimoto, C.
Coupling of microcolumn high-performance liquid chromatography with Fourier transform infrared spectrometry 506(1990)443
- Jinno, K., Yamamoto, K., Nagashima, H., Ueda, T. and Itoh, K.
Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193
- Jinno, K. and Yokoyama, Y.
Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325
- Jinno, K., see Hayashida, M. 506(1990)133
- Jinno, K., see Okamoto, M. 515(1990)43
- Joelsson, M., see Cheng, L. 523(1990)119
- Joelsson, M., see Johansson, G. 537(1991)219
- Joeres, R., see Ernemann, U. 528(1990)243
- Johansen, K. and Edlund, P. O.
Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471
- Johansen, M., Rasmussen, K. E. and Christophersen, A. S.
Determination of pholcodine and its metabolites in urine by capillary gas chromatography 532(1990)277
- Johansson, B.-L., see Drevin, I. 514(1990)137
- Johansson, B.-L., see Drevin, I. 547(1991)21
- Johansson, G. and Joelsson, M.
Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219
- Johansson, G., see Blennow, A. 522(1990)235
- Johansson, G., see Cheng, L. 523(1990)119
- Johansson, G., see Muñio Blanco, M. T. 547(1991)79
- John, V., see Greig, N. H. 534(1990)279
- Johnson, B. J.
Sulfite-disulfite equilibrium on an ion chromatography column 508(1990)271
- Johnson, K. A., see Straka, R. J. 530(1990)83
- Johnston, A. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101
- Johnston, A., Mao, Q. M. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127
- Johnston, A., see Mao, Q. M. 548(1991)147
- Johnston, A., see Saleh, S. 528(1990)531
- Joly, J.-P. and Moll, N.
Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134
- Jones, E. A., Bezuidenhout, H. S. and Van Staden, J. F.
Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277
- Jones, H. K., Nguyen, N. T. and Smith, R. D.
Variance contributions to band spread in capillary zone electrophoresis 504(1990)1
- Jones, W. J., see Caldwell, G. W. 514(1990)377
- Jones, W. R. and Jandik, P.
Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445
- Jones, W. R., see Jackson, P. E. 538(1991)497
- Jones, W. R., see Jandik, P. 546(1991)431

- Jones, W. R., see Romano, J. 546(1991)411
 Jones, W. R., see Wildman, B. J. 546(1991)459
 Jonker, H. D., see Trieling, R. G. 545(1991)475
 Jonkman, J. H. G., see Wieling, J. 545(1991)101
 Jönsson, J. Å., see Lindegård, B. 514(1990)293
 Jonzon, B., see Svensson, J.-O. 529(1990)437
 Jopski, B., see Bruchelt, G. 545(1991)407
 Jordan, E. D., see Weidenhamer, J. D.
 504(1990)151
 Jørgensen, A., see Rop, P. P. 527(1990)226
 Jorgenson, J. W., see Bush, S. G. 503(1990)69
 Jorgenson, J. W., see Moseley, M. A.
 516(1990)167
 Josić, D., Zeilinger, K., Reutter, W., Böttcher, A.
 and Schmitz, G.
 High-performance capillary electrophoresis
 of hydrophobic membrane proteins
 516(1990)89
 Jung, C. U., see Strong, D. L. 546(1991)159
 Joyce, R., see Campbell, D. L. 546(1991)229
 Jozefonvicz, J., see Ellouali, M. 548(1991)255
 Jozefonvicz, J., see Jacquot-Dourges, M. A.
 510(1990)141
 Jozefonvicz, J., see Jacquot Dourges, M. A.
 526(1990)35
 Jozefonvicz, J., see Jacquot-Dourges, M. A.
 539(1991)417
 Jozefonvicz, J., see Khamlichi, S. 510(1990)123
 Jozefonvicz, J., see Sinniger, V. 539(1991)289
 Jozefonvicz, J., see Zhou, F. L. 510(1990)71
 Juhler, R. K. and Cox, R. P.
 High-performance liquid chromatographic
 determination of chloroplast pigments with
 optimized separation of lutein and
 zeaxanthin 508(1990)232
 Julkunen-Tiitto, R., see Vainiotalo, P.
 547(1991)367
 Jung, G., see Fiedler, H.-P. 513(1990)255
 Jung, K., see Henke, W. 527(1990)498
 Jungbauer, A., Tauer, C., Wenisch, E., Uhl, K.,
 Brunner, J., Purtscher, M., Steindl, F. and
 Buchacher, A.
 Isolation of isoproteins from monoclonal
 antibodies and recombinant proteins by
 chromatofocusing 512(1990)157
 Jungbauer, A., see Wenisch, E. 516(1990)133
 Juntheikki, M.-R., see Vainiotalo, P.
 547(1991)367
 Jurado, M. C., see Martínez, D. 528(1990)459
 Jurczak, J., see Sybilska, D. 543(1991)397
 Jurenitsch, J., see De Bettignies-Dutz, A.
 547(1991)299
 Jurzysta, M., see Oleszek, W. 519(1990)109
 Jusiak, L., see Matsysik, G. 518(1990)273
 Juvancz, Z., see Bradshaw, J. S. 540(1991)279

K

- Kabasawa, Y., see Takeuchi, T. 538(1991)125
 Kadaba, P. K., see Stevenson, P. J.
 533(1990)248
 Kadir, F. and Zuidema, J.
 High-performance liquid chromatographic
 method for the determination of carazolol in
 serum or plasma of pigs 527(1990)461
 Kadofuku, T., see Hiro, T. 528(1990)315
 Kadoya, T.
 High-performance liquid chromatography of
 proteins on a ceramic hydroxyapatite with
 volatile buffers 515(1990)521
 Kaffarnik, H., see Hocke, G. 526(1990)203
 Kaffenberger, R. M. and Doyle, M. J.
 Determination of menthol and menthol
 glucuronide in human urine by gas
 chromatography using an enzyme-sensitive
 internal standard and flame ionization
 detection 527(1990)59
 Kaffenberger, R. M., Eichhold, T. H. and Doyle,
 M. J.
 Determination of tebufelone (a new anti-
 inflammatory drug) strength and stability in
 bulk drug, dosage formulations and feed
 admixtures by reversed-phase high-
 performance liquid chromatography
 505(1990)349
 Kågedal, B. and Olsson, B.
 Determination of creatinine in serum by
 high-performance liquid chromatography: a
 comparison of three ion-exchange methods
 527(1990)21
 Kågedal, L., Engström, B., Ellegren, H., Lieber,
 A.-K., Lundström, H., Sköld, A. and
 Schenning, M.
 Chemical, physical and chromatographic
 properties of Superdex 75 prep grade and
 Superdex 200 prep grade gel filtration
 media 537(1991)17
 Kagels, F., see Zurth, C. 532(1990)115
 Kagi, R. I., see Alexander, R. 538(1991)424
 Kahie, Y. D., see Lodi, G. 545(1991)214
 Kahl, G. F., see Frijus-Plessen, N. 534(1990)101
 Kahl, G. F., see Michaelis, H. C. 527(1990)201
 Kahn, R. A., see Knight, M. 538(1991)141
 Kahn, R. S., see Suckow, R. F. 528(1990)228
 Kai, M., see Chao, W.-F. 526(1990)77
 Kailas, T., see Kuningas, K. 520(1990)137
 Kajji, E., Iwamoto, S. and Ikemoto, S.
 Chronic myelogenous leukaemia-associated
 polypeptide in platelets detected by two-

- dimensional polyacrylamide gel electrophoresis 533(1990)207
- Kajii, E., see Isoda, N. 527(1990)315
- Kajii, E., see Isoda, N. 534(1990)47
- Kajima, T., see Oda, Y. 541(1991)411
- Kajiwara, M., see Iida, K. 515(1990)573
- Kakehi, K., Kojima, Y., Suzuki, S. and Honda, S.
Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297
- Kakehi, K., see Honda, S. 515(1990)653
- Kakehi, K., see Honda, S. 523(1990)189
- Kakihana, H., see Kawada, K. 538(1991)355
- Kakita, H., Nakamura, K., Kato, Y., Oda, Y., Shimura, K. and Kasai, K.-I.
High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315
- Kalambet, Y. A., Kozmin, Y. P. and Perelroyen, M. P.
Computer spectrochromatography. Principles and practice of multi-channel chromatographic data processing 542(1991)247
- Kalász, H., Báthori, M. and Matkovic, B.
Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287
- Kalbacher, H. and Kropshofer, H.
Non-radioactive detection of MHC class II-peptide antigen complexes in the sub-picomole range by high-performance size-exclusion chromatography with fluorescence detection 548(1991)343
- Kal'chenko, O. I. and Svitel'sky, W. P.
Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65
- Kaliaguine, S., see Grandmaison, J. L. 540(1991)225
- Kalinowski, H. T. and Hargiss, L. O.
Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199
- Kalisz, H. M., Hendle, J. and Schmid, R. D.
Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245
- Kaliszan, R. and Ośmiałowski, K.
Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3
- Kaliszan, R., see Gami-Yilinkou, R. 550(1991)573
- Kaljurand, M., see Küllik, E. 517(1990)175
- Kalkote, U. R., see Ayyangar, N. R. 519(1990)250
- Kállay, Z., see Weber, H. 525(1990)459
- Kallio, H. and Laakso, P.
Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69
- Kalra, R. L., see Singh, P. P. 540(1991)464
- Kalvinš, I., see Shatz, V. D. 521(1990)19
- Kamada, M., see Konishi, T. 515(1990)279
- Kamahori, M., Watanabe, Y., Miyagi, H., Ohki, H. and Miyake, R.
Two-dimensional viscous flow analysis in a micro flow-cell of an ultraviolet absorption detector for high-performance liquid chromatography 549(1991)101
- Kamali, F. and Herd, B.
Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222
- Kamali, F. and Rawlins, M. D.
Simple and rapid assay for zidovudine and zidovudine glucuronide in plasma using high-performance liquid chromatography 530(1990)474
- Kambe, H., see Ito, H. 526(1990)397
- Kamberov, E. and Ivanov, A.
Purification of phospholipase-C from *Bacillus cereus* by affinity chromatography on 2-(4-aminophenylsulphonyl)ethyl-cellulose 525(1990)307
- Kameyama, K., see Lundahl, P. 518(1990)111
- Kamisaki, Y., Takao, Y., Itoh, T., Shimomura, T., Takahashi, K., Uehara, N. and Yoshino, Y.
Determination of γ -aminobutyric acid in human cerebrospinal fluid by isocratic high-performance liquid chromatography 529(1990)417
- Kamiyama, S., see Nagai, T. 525(1990)203
- Kanai, Y., see Manabe, S. 529(1990)125
- Kanazawa, H., Nagata, Y., Matsushima, Y., Tomoda, M. and Takai, N.
Simultaneous determination of ginsenosides and saikosaponins by high-performance liquid chromatography 507(1990)327
- Kanazawa, H., Nagata, Y., Matsushima, Y., Tomoda, M. and Takai, N.
Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

- Kanazawa, T., see Yamano, Y. 528(1990)199
- Kanda, S., see Higashidate, S. 515(1990)577
- Kandiko, C. T., Browning, S., Cooper, T. and Cox, W. A.
Detection of low nanogram quantities of phencyclidine extracted from human urine.
Preparation of an acetylated column packing material for use in gas chromatography with nitrogen-phosphorus detection
528(1990)208
- Kanemitsu, F. and Okigaki, T.
Clinical application of subforms of creatine kinase MM and macro creatine kinases
526(1990)423
- Kaneta, T., Tanaka, S. and Yoshida, H.
Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385
- Kaneta, T., see Tanaka, S. 521(1990)158
- Kaneta, T., see Tanaka, S. 540(1991)475
- Kaneuchi, F., see Yoshioka, M. 515(1990)205
- Kanhere, S. R. and Scott, P. M.
Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384
- Kaniansky, D., Zelenský, I., Valášková, I., Marák, J. and Zelenská, V.
Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143
- Kaniansky, D., see Hutta, M. 509(1990)271
- Kaniansky, D., see Kenndler, E. 508(1990)203
- Kaniansky, D., see Kopáček, P. 545(1991)461
- Kaniansky, D., see Marák, J. 509(1990)287
- Kaouadji, N. and Lafont, R.
Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408
- Kapetanovic, I. M.
Analysis of antiepileptic drugs
531(1990)421
- Kaphalia, B. S.
Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85
- Kaplan, J. I., see Dubin, P. L. 515(1990)37
- Kapalos, J., see Stolyarov, B. V. 550(1991)181
- Karabanov, N. T., Vetrova, Z. P., Ivanova, L. A., Schuvalova, T. N. and Yashin, Y. I.
Modified sorbents in binary stationary phase systems in gas chromatography
508(1990)193
- Karageorgiev, D., see Neicheva, A. 509(1990)263
- Karaiskakis, G., see Koliadima, A. 517(1990)345
- Karaiskakis, G., see Koliadima, A. 550(1991)171
- Karamanos, N. K., Wikström, B., Antonopoulos, C. A. and Hjerpe, A.
Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection
503(1990)421
- Karangwa, E., Mitchell, Jr., G. E. and Tucker, R. E.
High-performance liquid chromatographic determination of 4-methylimidazole in sheep plasma and in ammoniated tall fescue hay
532(1990)105
- Karara, A. H., see Choudhury, S. 534(1990)208
- Karasek, F. W., see Naikwadi, K. P. 511(1990)281
- Kargas, G., Rudy, T., Spennetta, T., Takayama, K., Querishi, N. and Shrago, E.
Separation and quantitation of long-chain free fatty acids in human serum by high-performance liquid chromatography
526(1990)331
- Karger, B. L., see Cohen, A. S. 516(1990)49
- Karger, B. L., see Heiger, D. N. 516(1990)33
- Karger, B. L., see Lin, S. 536(1991)17
- Karger, B. L., see Terabe, S. 516(1990)23
- Karlaganis, G., Von Arx, R., Ammon, H. U. and Camenzind, R.
High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229
- Karlsson, A. and Pettersson, C.
Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287
- Karnes, H. T., see Mallikaarjun, K. R. 531(1990)407
- Karol, P. J.
Equilibrium elution chromatography. The column-origin boundary condition
550(1991)247
- Karovičová, J., Drdák, M. and Polonský, J.
Utilization of capillary isotachopheresis in the determination of organic acids in food
509(1990)283
- Karovičová, J., Polonský, J., Pribela, A. and Šimko, P.
Isotachopheresis of some synthetic colorants in foods 545(1991)413
- Karp, S., Ciambra, C. M. and Miklean, S.
High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

- Kasai, K.-I., see Kakita, H. 543(1991)315
Kasai, K.-I., see Nakamura, K. 510(1990)101
Kasai, K.-I., see Nakamura, K. 513(1990)367
Kasai, M., see Noguchi, K. 506(1990)145
Kasai, M., see Ohtani, T. 515(1990)175
Kasai, M., see Uchida, T. 506(1990)327
Kasche, V., Löffler, F., Scholzen, T., Krämer, D. M. and Boller, T.
Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149
Kase, K., see Shoshihara, M. 529(1990)473
Kassahun, K., Farrell, K., Zheng, J. and Abbott, F.
Metabolic profiling of valproic acid in patients using negative-ion chemical ionization gas chromatography-mass spectrometry 527(1990)327
Kassir, Z. A., see Hassan, N. A. 530(1990)102
Kasuya, Y., see Furuta, T. 525(1990)15
Katagiri, Y., see Naora, K. 530(1990)186
Katakawa, J., see Yasaka, Y. 508(1990)133
Kataoka, H., Higashiyama, K., Okazaki, T. and Makita, M.
Determination of isethionic acid by gas chromatography with flame photometric detection 528(1990)172
Kataoka, M., see Honda, S. 515(1990)653
Katase, T., see Raynor, M. W. 505(1990)179
Katayama, N., Hashimoto, H., Koyama, Y. and Shimamura, T.
High-performance liquid chromatography of *cis-trans* isomers of neurosporene: discrimination of *cis* and *trans* configurations at the end of an open conjugated chain 519(1990)221
Katinger, H., see Wenisch, E. 516(1990)133
Kato, J., see Banno, K. 525(1990)255
Kato, N., Gasa, S., Makita, A. and Oguchi, H.
Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133
Kato, Y., Nakatani, S., Kitamura, T., Onaka, A. and Hashimoto, T.
High-performance ion-exchange chromatography of peptides on a pellicular ion exchanger 513(1990)384
Kato, Y., Nakatani, S., Kitamura, T., Yamasaki, Y. and Hashimoto, T.
Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416
Kato, Y., see Kakita, H. 543(1991)315
Kato, Y., see Matsuoka, K. 515(1990)313
Kato, Y., see Nakamura, K. 510(1990)101
Kato, Y., see Nakamura, K. 513(1990)367
Katsanos, N. A., see Stolyarov, B. V. 550(1991)181
Katsumata, Y., see Moore, C. M. 539(1991)215
Katti, A. M., Dose, E. V. and Guiochon, G.
Comparison of the performances of overloaded elution and displacement chromatography for a given column 540(1991)1
Katti, A. M., see Czok, M. 550(1991)705
Kattner, G., Graeve, M. and Ernst, W.
Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327
Katz, E. D., Haff, L. A. and Eksteen, R.
Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433
Kauffman, G. B., see Ray, R. K. 504(1990)464
Kaufmann, P., see Olsson, U. 505(1990)385
Kaul, S., see Mulvana, D. E. 527(1990)343
Kavanagh, M. C., see Hooper, W. D. 529(1990)167
Kavanagh, P. E., see Shalliker, R. A. 543(1991)157
Kavrakova, I., see Palamareva, M. D. 545(1991)161
Kawachi, M., see Niwa, T. 533(1990)145
Kawada, K., Oi, T., Hosoe, M. and Kakhana, H.
Fractionation of potassium isotopes in cation-exchange chromatography 538(1991)355
Kawahara, M., Nakamura, H. and Nakajima, T.
Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149
Kawahara, Y., see Naganuma, H. 530(1990)387
Kawahara, Y., see Naganuma, H. 532(1990)65
Kawai, S., Fuchiwaki, T., Higashi, T. and Tomita, M.
High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29
Kawai, S., Uno, B. and Tomita, M.
Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411
Kawai, S., see Koh, S. 549(1991)434
Kawai, S., see Takayama, Y. 514(1990)259
Kawai, S., see Tomita, M. 515(1990)391
Kawai, S., see Tomita, M. 526(1990)174

- Kawamoto, M., see Morita, I. 526(1990)367
- Kawamura, N., see Ikai, Y. 541(1991)393
- Kawamura, N., see Oka, H. 538(1991)149
- Kawanishi, Y., see Hasunuma, R. 537(1991)397
- Kawasaki, H., Maeda, N. and Yuki, H.
Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450
- Kawasaki, N., Ishigami, A., Tanimoto, T. and Tanaka, A.
Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of ceruloplasmin 503(1990)237
- Kawasaki, T.
Hydroxyapatite as a liquid chromatographic packing (Review) 544(1991)147
- Kawasaki, T., Niikura, M. and Kobayashi, Y.
Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91
- Kawasaki, T., Niikura, M. and Kobayashi, Y.
Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125
- Kayaalp, S. O., see Basci, N. E. 527(1990)174
- Kaye, P. T. and Learmonth, R. A.
Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437
- Kazemifard, A. G. and Moore, D. E.
Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125
- Kazemifard, A. G. and Morgan, D. J.
Determination of busulfan in plasma by high-performance liquid chromatography 528(1990)274
- Kecorius, E., see Meyer, B. 540(1991)386
- Kecorius, E., see Tetaz, T. 511(1990)147
- Keel, B. A., see Grotjan, H. E. 549(1991)141
- Kees, F., Raasch, W., Steger, M. and Grobecker, H.
High-performance liquid chromatographic assay for cefotiam and d3-cefotiam in human serum 525(1990)484
- Keizer, H., see Roemen, T. H. M. 528(1990)447
- Keledjian, J., see Duffield, A. M. 518(1990)215
- Keler, T., see Somlyo, B. 525(1990)329
- Kelley, W. T., see Danehower, D. A. 502(1990)431
- Kelly, M. T., Smyth, M. R. and Ruskin, H.
Evaluation of drug-free plasma profiles by high-performance liquid chromatography following on-line solid-phase extraction 528(1990)277
- Kelly, M. T., see Turley, D. J. 513(1990)263
- Kemenes-Bakos, P., see Gazdag, M. 550(1991)639
- Kemmelmeier, C., see Paterson, R. R. M. 511(1990)195
- Kemp, D. H., see Sharp, P. J. 512(1990)189
- Kemper, A., see Wilhelm, D. 525(1990)218
- Kenndler, E. and Schmidt-Beiwil, K.
Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397
- Kenndler, E., Schwer, C., Fritsche, B. and Pöhm, M.
Determination of arbutin in *Uvae-ursi folium* (bearberry leaves) by capillary zone electrophoresis 514(1990)383
- Kenndler, E., Schwer, C. and Kaniansky, D.
Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203
- Kenndler, E., see Widhalm, A. 549(1991)446
- Kennedy, E. R., O'Connor, P. F. and Grote, A. A.
Application of multidimensional gas chromatography-mass spectrometry to the determination of glycol ethers in air 522(1990)303
- Kennel, S., Kintz, P., Tracqui, A., Mangin, P., Lugnier, A. A. and Chaumont, A. J.
Identification and quantification in plasma of zopiclone by gas chromatography with nitrogen-phosphorus detection 527(1990)169
- Kenney, B. F.
Determination of organic acids in food samples by capillary electrophoresis 546(1991)423
- Kenney, C. N., see Horstmann, B. J. 516(1990)433
- Kenney, D., see Cheung, A. P. 506(1990)119
- Kerby, N. W., see Powell, H. A. 502(1990)201
- Keresztes, P., see Papp, E. 506(1990)157
- Kergueris, M. F., see Thomare, P. 529(1990)494
- Kéri, G., see Szöke, B. 547(1991)121
- Kern, J. R.
Chromatographic separation of the optical isomers of naproxen 543(1991)355
- Kessler, R., see Zeller, M. 545(1991)421

- Kessler, W., Jiang, X. and Filser, J. G.
Direct determination of styrene-7,8-oxide in blood by gas chromatography with flame ionization detection 534(1990)67
- Keswani, S. R., Edfort, M. J., Wilhelm, J. A., Kvalo, L. T. and Venturella, V. S.
Sensitive method for the determination of pentamorphone in serum by liquid chromatography-mass spectrometry with thermospray interface 534(1990)77
- Keukens, H. J., see Binnendijk, G. M. 541(1991)401
- Keymeulen, R., Van Langenhove, H. and Schamp, N.
Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83
- Khaledi, M. G., see Strasters, J. K. 511(1990)17
- Khamlichi, S., Muller, D., Fuks, R. and Jozefonvicz, J.
Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123
- Khamlichi, S., see Ellouali, M. 548(1991)255
- Khan, M. R., Ong, C. P., Li, S. F. Y. and Lee, H. K.
Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360
- Khan, M. R., see Lim, K. B. H. 538(1991)492
- Khatter, N., see Ngo, T. T. 510(1990)281
- Kiba, N., Shitara, K., Furusawa, M. and Takata, Y.
Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443
- Kiba, N., Shitara, K., Fuse, H., Furusawa, M. and Takata, Y.
Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127
- Kibby, J., see Haynes, P. A. 540(1991)177
- Kido, A., see Terashi, A. 503(1990)369
- Kientz, C. E., De Jong, G. J. and Brinkman, U. A. T.
Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461
- Kierkels, J. T. G., see Flapper, W. 533(1990)47
- Kiessling-Johansson, M., see Hjertén, S. 550(1991)811
- Kihara, K., see Rokushika, S. 514(1990)355
- Kiho, T., see Ukai, S. 513(1990)338
- Kikawa, Y., Nakai, A., Shigematsu, Y. and Sudo, M.
Extraction of urinary leukotriene E₄ by the combined use of octadecyl reversed-phase and NH₂ normal-phase extraction columns 532(1990)387
- Kikkawa, K., see Takechi, T. 532(1990)144
- Kikuchi, K., see Kubota, K. 533(1990)255
- Kikuchi, T., see Takatsuki, K. 508(1990)357
- Kikuta, C., see Mascher, H. 506(1990)417
- Kilár, F.
Determination of pI by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms 545(1991)403
- Kim, C., see Annan, R. S. 526(1990)228
- Kim, C.-H., Kim, D.-S., Taniguchi, H. and Maruyama, Y.
Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131
- Kim, D.-S., see Kim, C.-H. 512(1990)131
- Kim, D. S., see Park, J. H. 513(1990)107
- Kim, H.-J.
Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466
- Kim, Y. J. and Cramer, S. M.
Metal affinity displacement chromatography of proteins 549(1991)89
- Kimata, K., Tsuboi, R., Hosoya, K., Tanaka, N. and Araki, T.
Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 515(1990)73
- Kimata, K., see Tanaka, N. 535(1990)13
- Kimata, K., see Tanaka, N. 544(1991)319
- Kimata, K., see Tanaka, N. 549(1991)29
- Kimura, G., see Hirokawa, T. 513(1990)297
- Kimura, K., see Harino, H. 522(1990)107
- Kimura, K., see Imamura, T. 534(1990)253
- Kimura, K., see Isoda, N. 527(1990)315
- Kimura, K., see Isoda, N. 534(1990)47
- Kimura, Y., see Haginaka, J. 515(1990)59
- Kimura, Y., see Haginaka, J. 529(1990)455
- Kimura, Y., see Ito, H. 526(1990)397
- King, J. W. and Friedrich, J. P.
Quantitative correlations between solute molecular structure and solubility in supercritical fluids 517(1990)449
- King, J. W., see France, J. E. 540(1991)271
- King, M.-L., see Hu, O. Y.-P. 523(1990)321
- Kingaby, R. O., see Deistung, J. 539(1991)485

- Kinoshita, M., Yoshimura, N., Ogata, H., Tsujino, D., Takahashi, T., Takahashi, S., Wada, Y., Someya, K., Ohno, T., Masuhara, K. and Tanaka, Y.
High-performance liquid chromatographic analysis of unchanged *cis*-diamminedichloroplatinum (cisplatin) in plasma and urine with post-column derivatization 529(1990)462
- Kinoshita, T., see Iwaki, K. 504(1990)359
- Kinoshita, T., see Nishikida, K. 517(1990)209
- Kinoshita, T., see Yokoyama, T. 518(1990)141
- Kinoshita, T., see Yokoyama, T. 542(1991)365
- Kintz, P., see Boukhabza, A. 529(1990)210
- Kintz, P., see Kennel, S. 527(1990)169
- Kintz, P., see Tracqui, A. 529(1990)369
- Kira, R., see Ôi, N. 515(1990)441
- Kira, R., see Ôi, N. 535(1990)213
- Kirii, N., see Shinohara, Y. 525(1990)93
- Kirkland, J. J., Boone, L. S. and Yau, W. W.
Retention effects in thermal field-flow fractionation 517(1990)377
- Kirkland, J. J. and Yau, W. W.
Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799
- Kirkland, J. J., see Zhou, N. E. 548(1991)179
- Kirkland, K. M., Neilson, K. L. and McCombs, D. A.
Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43
- Kirschbaum, J., Noroski, J., Cosey, A., Mayo, D. and Adamovics, J.
High-performance liquid chromatography of the drug fosinopril 507(1990)165
- Kisfaludy, L., see Péter, A. 507(1990)59
- Kishimoto, S., see Ito, H. 526(1990)397
- Kiso, Y., see Hirokawa, T. 513(1990)297
- Kiso, Y., see Hirokawa, T. 538(1991)403
- Kiso, Y., see Hirokawa, T. 538(1991)413
- Kiso, Y., see Hirokawa, T. 545(1991)267
- Kissinger, P. T., see Mazzeo, J. R. 550(1990)585
- Kitahara, H., see Ôi, N. 515(1990)441
- Kitahara, H., see Ôi, N. 535(1990)213
- Kitamura, T., see Kato, Y. 502(1990)416
- Kitamura, T., see Kato, Y. 513(1990)384
- Kitazawa, T., see Okamura, N. 542(1991)317
- Kitazume, E., Bhatnagar, M. and Ito, Y.
Separation of rare earth elements by high-speed counter-current chromatography 538(1991)133
- Kitazume, E., see Ito, Y. 538(1991)59
- Kitazume, E., see Ito, Y. 538(1991)81
- Kithinji, J. P., see Bartle, K. D. 517(1990)459
- Kito, M., Tawa, R., Takeshima, S. and Hirose, S.
Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91
- Kito, M., see Yoshida, S. 530(1990)57
- Kitsos, M., see Gandini, C. 540(1991)416
- Kitts, D. D., see Walisser, J. A. 518(1990)179
- Kleiböhmer, W., see Cammann, K. 522(1990)267
- Kleiman, R., see Abbott, T. P. 538(1991)109
- Klein, C., see Dutot, C. 528(1990)435
- Klein, C. M. and Haas, H. J.
New high-performance liquid chromatographic method for the determination of low activities of dihydropyrimidine dehydrogenase 529(1990)431
- Klein, M., see Chong, P. 512(1990)227
- Klein, U., see Ehwald, R. 542(1991)239
- Klein, U., see Schröder, W. 512(1990)213
- Kleinmann, I., see Plicka, J. 523(1990)139
- Kleinmann, I., see Šmidl, P. 523(1990)131
- Klenk, D. C., see Domen, P. L. 510(1990)293
- Klesper, E., see Hütz, A. 505(1990)99
- Klesper, E., see Küppers, S. 505(1990)109
- Klick, S., see Abrahamsson, K. 513(1990)39
- Kline, W. F., Matuszewski, B. K. and Bayne, W. F.
Determination of 4-amino-1-hydroxybutane-1,1-bisphosphonic acid in urine by automated pre-column derivatization with 2,3-naphthalene dicarboxyaldehyde and high-performance liquid chromatography with fluorescence detection 534(1990)139
- Kling, G. J., see Cappiello, P. E. 504(1990)197
- Klingebl, L., Krüger, D. and Grossklaus, R.
Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238
- Klinker, H., see Ernemann, U. 528(1990)243
- Klinkner, R., see Engelhardt, H. 535(1990)41
- Klintrot, I.-M., see Renlund, S. 512(1990)325
- Kloosterboer, J. G., see Eguchi, S. 516(1990)301
- Klossek, P., see Schwidop, W.-D. 520(1990)325
- Kluchnikova, N. V., see Balyatinskaya, L. N. 509(1990)107
- Klumpp, S., Cohen, P. and Schultz, J. E.
Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179
- Klutman, N. E., see Riley, C. M. 531(1990)295
- Kmošťák, S. and Dvořák, M.
Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

- Knabe, J., see König, W. A. 503(1990)256
- Knapp, S., Wardlow, M. L. and Thal, L. J.
Sensitive analysis of plasma physostigmine levels using dual-cell electrochemistry in the redox mode 526(1990)97
- Knecht, R., see Steiner, V. 530(1990)273
- Knesel, L., see Šalamoun, J. 514(1990)179
- Knight, M., Gluch, S., Takahashi, K., Dang, T. T. and Kahn, R. A.
Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141
- Knochs, Jr., S., see Narayanan, S. R. 503(1990)93
- Knörr, W. and Spittler, G.
Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303
- Knox, J. H. and Shibukawa, M.
Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123
- Knupp, C. A., Stancato, F. A., Papp, E. A. and Barbhaiya, R. H.
Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282
- Ko, R. J., Li, W. Y. and Koda, R. T.
Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411
- Kobayashi, H., see Hayakawa, K. 515(1990)459
- Kobayashi, K., see Okamura, N. 542(1991)317
- Kobayashi, K., see Suzuki, S. 508(1990)225
- Kobayashi, M., see Yoshioka, M. 515(1990)205
- Kobayashi, S., see Teramura, T. 528(1990)191
- Kobayashi, S.-I., see Soeishi, Y. 533(1990)291
- Kobayashi, Y., see Kawasaki, T. 515(1990)91
- Kobayashi, Y., see Kawasaki, T. 515(1990)125
- Kobayashi, Y., see Tsuda, T. 515(1990)357
- Kobori, M., see Soeishi, Y. 533(1990)291
- Kobori, Y., see Koshiishi, I. 532(1990)37
- Koch, L., Koch, T. and Widmer, H. M.
Sedimentation field-flow fractionation for pigment quality assessment 517(1990)395
- Koch, T., see Koch, L. 517(1990)395
- Koda, R. T., see Ko, R. J. 525(1990)411
- Kodama, H., Nakamura, H., Sugahara, K. and Numajiri, Y.
Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency 527(1990)279
- Kodama, H., see Mizobuchi, N. 526(1990)550
- Kodama, H., see Takechi, T. 532(1990)144
- Kodama, Y., see Yoshikawa, M. 532(1990)155
- Koelewijn, H., see Kwakman, P. J. M. 511(1990)155
- Koenigbauer, M. J.
Application of micellar mobile phases for the assay of drugs in biological fluids 531(1990)79
- Koets, M. D., see Bombardt, P. A. 527(1990)233
- Kogure, M., see Imamura, Y. 526(1990)282
- Koh, S., Urayama, K., Kawai, S. and Takayama, Y.
Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434
- Kohara, N., see Fukuda, T. 511(1990)59
- Kohashi, K., see Tsuruta, Y. 502(1990)178
- Koike, M., Akiyama, H. and Shimizu, T.
High-performance liquid chromatographic procedure for the determination of rat plasma concentrations of a new antibacterial agent, (\pm)-9-fluoro-6,7-dihydro-8-(4-hydroxy-1-piperidyl)-5-methyl-1-oxo-1*H*,5*H*-benzo[*i,j*]quinolizine-2-carboxylic acid, for topical use 526(1990)235
- Kojima, K., Yamanaka, M., Nakanishi, Y. and Arakawa, S.
High-performance liquid chromatographic determination of etilefrine in human plasma using combined solid-phase and organic solvent extraction and electrochemical detection 525(1990)210
- Kojima, Y., see Kakehi, K. 502(1990)297
- Kok, W. T., see Engelsma, M. 506(1990)201
- Kok, W. T., see Tüdös, A. J. 547(1991)1
- Kokkonen, P., Schröder, E., Niessen, W. M. A., Tjaden, U. R. and Van der Greef, J.
Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35
- Kökösi, J., see Papp, O. 537(1991)365
- Kökösi, J., see Papp, O. 537(1991)377
- Koliadima, A., Agathonos, P. and Karaiskakis, G.
Gas chromatographic study of interaction between vinyl chloride and poly(vinyl chloride) 550(1991)171
- Koliadima, A. and Karaiskakis, G.
Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345
- Kolic, T. M., see Thompson, T. S. 543(1991)49
- Kollie, T. O. and Poole, C. F.
Application of multivariate analysis to the selection of test solutes for characterizing

- stationary phase selectivity in gas chromatography 550(1990)213
- Kollmannsberger, H., see Nitz, S. 547(1991)516
- Komatsubara, I., see Iida, T. 537(1991)345
- Kondo, J.-I., see Naganuma, H. 532(1990)65
- Kondoh, Y., Yamada, A. and Takano, S.
Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431
- Konetschny-Rapp, S., see Fiedler, H.-P. 513(1990)255
- Kong Sing, Y. L., see Algiman, E. 510(1990)165
- Konieczka, P., Namieśnik, J. and Biernat, J. F.
Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449
- König, A., see Schoene, K. 514(1990)279
- König, B. W., see Te Booy, M. P. W. M. 503(1990)103
- König, W. A., Lutz, S., Evers, P. and Knabe, J.
Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256
- Koning, H., Wolf, H., Venema, K. and Korf, J.
Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171
- Konishi, T., Kamada, M. and Nakamura, H.
Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279
- Kononenko, V. L. and Shimkus, J. K.
Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271
- Konopski, L.
2-Trichloromethylbenzimidazole, a selective chromogenic reagent for the detection of *o*-phenylenediamine on thin-layer plates 541(1991)480
- Konushlieva, M., see Kovacheva, E. 509(1990)79
- Kontetis, Z., see Flourance, J. 543(1991)299
- Kooistra, C., see Sluyterman, L. A. 519(1990)217
- Kool, I., see Kwakman, P. J. M. 511(1990)155
- Kopáček, P., Kaniansky, D. and Hejzlar, J.
Characterization of humic substances by capillary isotachopheresis 545(1991)461
- Kopaciewicz, W., see Pfannkoch, E. A. 503(1990)385
- Kopp, B., see De Bettignies-Dutz, A. 547(1991)299
- Koppel, R., see Hadas, E. 510(1990)303
- Koppel, R., see Solomon, B. 510(1990)321
- Koppel, R., see Solomon, B. 539(1991)335
- Koppenhoefer, B., Laupp, G. and Hummel, M.
Temperature dependence of dead time as determined by methane retention in open-tubular capillary gas chromatography 547(1991)239
- Kopperschläger, G., see Birkenmeier, G. 539(1991)267
- Kopperschläger, G., see Huse, K. 502(1990)171
- Kopperschläger, G., see Reuter, R. 510(1990)189
- Kordikowski, A., see Dahmen, N. 505(1990)169
- Korf, J., see Koning, H. 533(1990)171
- Korf, J., see Wolf, J. H. 502(1990)423
- Korfmacher, W. A., see Hornedo-Nuñez, A. 503(1990)217
- Korolev, A. A., see Gavrichev, V. S. 509(1990)59
- Korte Jr., D. W., see Ferraris, S. 527(1990)361
- Korteland, J., see Gorris, L. G. M. 504(1990)421
- Körtvélyessy, G., Körtvélyessy, J., Mester, T., Meszlényi, G. and Janzso, G.
Separation and interconversion of 3-amino-2-cyanoacrylates by high-performance liquid chromatography 507(1990)409
- Körtvélyessy, J., see Körtvélyessy, G. 507(1990)409
- Koscielski, T., see Ossicini, L. 547(1991)283
- Koshiishi, I., Kobori, Y. and Imanari, T.
Determination of citrulline and homocitrulline by high-performance liquid chromatography with post-column derivatization 532(1990)37
- Kostiainen, R. and Kuronen, P.
Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39
- Kostiainen, R., Matsuura, K. and Nojima, K.
Identification of trichothecenes by frit-fast atom bombardment liquid chromatography-high-resolution mass spectrometry 538(1991)323
- Kostiainen, R. and Nokelainen, S.
Use of M-series retention index standards in the identification of trichothecenes by electron impact mass spectrometry 513(1990)31
- Kostić, M., see Grune, T. 520(1990)411

- Kotake, A. N., see Kuwahara, S. K. 534(1990)260
- Kotarski, S. F., see Barsuhn, K. 546(1991)273
- Kotyński, A., Kudzin, Z. H. and Skowroński, R. Trifluoroacetic anhydride-sodium iodide as a reagent for the selective detection of nitroso compounds by thin-layer chromatography 516(1990)467
- Kouno, Y., Ishikura, C., Takahashi, N., Homma, M. and Oka, K. Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321
- Kountourellis, J. E., Markopoulou, C. and Georgakopoulos, P. P. Separation and simultaneous determination of bامipine and salbutamol in dosage forms by high-performance liquid chromatography 502(1990)189
- Koupil, P., see Drozd, J. 518(1990)1
- Kovacheva, E., Ganchev, G., Neicheva, A., Ivanova, I., Konoushlieva, M. and Andreev, V. Gas chromatographic determination of sterols in fat-soluble concentrates obtained from plant materials 509(1990)79
- Kovacheva, E., see Neicheva, A. 509(1990)263
- Kóvágó, Á., see Molnár-Perl, I. 520(1990)185
- Kovaleva, N. V. and Shcherbakova, K. D. Carbon adsorbents in gas adsorption chromatography 520(1990)55
- Kovats, E., see Somlyó, B. 525(1990)329
- Kowalczyk, J., see Ochocka, R. J. 543(1991)171
- Kowalczyk, J., see Sybilska, D. 543(1991)397
- Koyama, E., see Kubota, K. 533(1990)255
- Koyama, Y., see Katayama, N. 519(1990)221
- Koziol, T., see Austin, D. 527(1990)182
- Koziol, T. R. and Grayeski, M. L. Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145
- Kozmin, Y. P., see Kalambet, Y. A. 542(1991)247
- Kraak, J. C., see Bruin, G. J. M. 517(1990)557
- Kraak, J. C., see Eguchi, S. 516(1990)301
- Kraak, J. C., see Huisden, R. E. 508(1990)289
- Kraak, J. C., see Huisden, R. E. 537(1991)1
- Kraak, J. C., see Stegeman, G. 506(1990)547
- Kraak, J. C., see Stegeman, G. 550(1991)721
- Kraak, J. C., see Tock, P. P. H. 506(1990)185
- Kram, T. C., see Lurie, I. S. 504(1990)391
- Krämer, B. K., see Kühkamp, V. 528(1990)267
- Krämer, D. M., see Kasche, V. 510(1991)149
- Kramer, H. K., see Wiener, H. L. 527(1990)467
- Kramer, W., Girbig, F., Gutjahr, U. and Leipe, I. Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199
- Krasnewich, D. M., see Blom, H. J. 533(1990)11
- Kratchanov, C. and Popova, M. Increasing the purity of polyuronic sorbents 509(1990)239
- Krátká, J., see Porsch, B. 543(1991)1
- Kraus, A., see Soják, L. 509(1990)93
- Kraus, A., see Soják, L. 520(1990)75
- Kraus, G., see Hahne, F. 520(1990)85
- Kraus, G., see Soják, L. 509(1990)93
- Kraus, G., see Soják, L. 520(1990)75
- Kraus, L., see Lendrath, G. 502(1990)385
- Kraus, R. J., Shinnick, F. L. and Marlett, J. A. Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71
- Krause, E., Smettan, D., Loth, F. and Herma, H. Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263
- Krause, M. and Galensa, R. Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287
- Krause, M. and Galensa, R. Optical resolution of flavanones by high-performance liquid chromatography on various chiral stationary phases 514(1990)147
- Kraut-Vass, A. and Thoma, J. Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233
- Krebs, H. A., see Greene, S. V. 527(1990)397
- Kreczmer, T., see Gorczyńska, K. 509(1990)53
- Krepski, L. R., see Coleman, P. L. 512(1990)345
- Kress, E., see Balschukat, D. 502(1990)79
- Kril, M. B., Burke, K. A., DiNunzio, J. E. and Gadde, R. R. Determination of tretinoin in creams by high-performance liquid chromatography 522(1990)227
- Krips, H. J., see Tji, T. G. 504(1990)403
- Kristensson, J., see Beving, H. 532(1990)45
- Křivánková, L., Foret, F. and Boček, P. Determination of halofuginone in feedstuffs by the combination of capillary zone electrophoresis and capillary zone electrophoresis in a column-switching system 545(1991)307
- Krob, E. J., see Walter, H. 542(1991)397

- Krol, J., see Jackson, P. E. 546(1991)189
Krol, J., see Jackson, P. E. 546(1991)405
Kropshofer, H., see Kalbacher, H. 548(1991)343
Kroviarski, Y., see Algiman, E. 510(1990)165
Krstulovic, A. M., see Candito, M.
526(1990)194
Krstulovic, A. M., see Lee, C. R. 539(1991)55
Krueger, R. J., Hobbs, T. R., Mihal, K. A.,
Tehrani, J. and Zeece, M. G.
Analysis of endoproteinase Arg C action on
adrenocorticotrophic hormone by capillary
electrophoresis and reversed-phase high-
performance liquid chromatography
543(1991)451
Krüger, D., see Klingebiel, L. 527(1990)238
Krull, I.
· Detection-oriented derivatization techniques
in liquid chromatography (edited by H.
Lingeman and W. J. M. Underberg) (Book
Review) 518(1990)391
Krull, I. S., see Bourque, A. J. 537(1991)123
Krull, I. S., see Gao, C. X. 515(1990)337
Krull, I. S., see Lookabaugh, M. 549(1991)357
Krull, I. S., see Mazzeo, J. R. 550(1990)585
Krull, I. S., see Mhatre, R. 502(1990)21
Krull, I. S., see Stuting, H. H. 539(1991)91
Krupčík, J., see Hevesi, T. 517(1990)161
Krupčík, J., see Liška, I. 509(1990)123
Kryger, S. and Helboe, P.
Determination of impurities in
dextropropoxyphene hydrochloride by
high-performance liquid chromatography on
dynamically modified silica 539(1991)186
Kubánek, V., see Porsch, B. 520(1990)295
Kubaský, J., see Drdák, M. 504(1990)207
Kubátová, E., see Gabriel, J. 542(1991)200
Kubinec, R., see Soják, L. 509(1990)93
Kubinec, R., see Soják, L. 520(1990)75
Kubo, I.
Recent applications of counter-current
chromatography to the isolation of bioactive
natural products 538(1991)187
Kubo, T., see Imamura, Y. 526(1990)282
Kubota, K., Nakamura, H., Koyama, E.,
Yamada, T., Kikuchi, K. and Ishizaki, T.
Simple and sensitive determination of
timolol in human plasma and urine by
high-performance liquid chromatography
with ultraviolet detection 533(1990)255
Kubota, M., see Suemitsu, R. 503(1990)282
Kudo, K., see Imamura, T. 534(1990)253
Kudoh, S. and Nakamura, H.
Direct determination of the antihypertensive
agent Cromakalim and its major metabolites
in human urine by high-performance liquid
chromatography 515(1990)597
Kudzin, Z. H., see Kotyński, A. 516(1990)467
Kühlkamp, V., Schmid, F., Röss, K. M., Krämer,
B. K., Mayer, F., Liebich, H. M., Risler, T.
and Seipel, L.
Quantification of cibenzoline and its
imidazole metabolite by high-performance
liquid chromatography in human serum
528(1990)267
Kühn, H. and Wiesner, R.
Separation of hydroxylated polyenoic fatty
acid enantiomers on Pirkle-type chiral phase
high-performance liquid chromatographic
columns 520(1990)391
Kukhar, V. P., see Galushko, S. V.
511(1990)115
Kula, M.-R., Elling, L. and Walsdorf, A.
Investigations of liquid-liquid partition
chromatography of proteins 548(1991)3
Kula, M.-R., see Champluvier, B. 539(1991)315
Kula, M. R., see Walsdorf, A. 523(1990)103
Kula, M. R., see Walsdorf, A. 542(1991)55
Kulin, L.-I., Flodin, P., Ellingsen, T. and
Ugelstad, J.
Monosized polymer particles in size-
exclusion chromatography. I. Toluene as
solvent 514(1990)1
Küllik, E. and Kaljurand, M.
Study of rapid reaction kinetics by
computerized gas chromatography with
stroboscopic sampling 517(1990)175
Kumamaru, T., see Okamoto, Y. 539(1991)221
Kumar, V., see Tiwari, B. B. 547(1991)554
Kumarasamy, R.
Oligosaccharide mapping of therapeutic
glycoproteins by high-pH anion-exchange
high-performance liquid chromatography
512(1990)149
Kunath, A. and Ozegowski, R.
Enantiomeric separation of racemic
 α -substituted α -methylbutyric acid
derivatives on microcrystalline cellulose
triacetate 520(1990)361
Kuningas, K., Rang, S. and Kailas, T.
Relationship between the structure and
retention of *n*-alkenes and *n*-alkynes on
silicone phases 520(1990)137
Kuno, Y., Hina, T., Akiyama, T. and Matsui, M.
Simultaneous determination of tributyl
phosphate and dibutyl phosphate in spent
fuel reprocessing streams by gas
chromatography 537(1991)489
Kuo, K.-W., Yeh, H.-W., Chu, D. Z. J. and Yeh,
Y.-C.
Separation and microanalysis of growth
factors by Phast system gel electrophoresis
and by DNA synthesis in cell culture
543(1991)463
Kuo, M. S., see Yurek, D. A. 502(1990)184

- Küppers, S., Leyendecker, D., Schmitz, F. P. and Klesper, E.
Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109
- Kura, G., see Baba, Y. 550(1991)5
- Kuramoto, M., see Araki, T. 545(1991)183
- Kurantz, M. J., Maxwell, R. J., Kwoczek, R. and Taylor, F.
Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387
- Kurashige, T., see Takechi, T. 532(1990)144
- Kurganov, A., Kuzmenko, O., Davankov, V. A., Eray, B., Unger, K. K. and Trüding, U.
Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391
- Kurganov, A. A., Davankov, V. A. and Unger, K. K.
Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207
- Kuroda, H., see Miwa, T. 511(1990)89
- Kuronen, P., see Kostianen, R. 543(1991)39
- Kurono, M., Yoshida, K., Arakawa, S. and Naruto, S.
Determination of a novel calcium entry blocker, AJ-2615, in plasma using solid-phase extraction and high-performance liquid chromatography with electrochemical detection 532(1990)175
- Kurosu, Y., Sasaki, T., Takakuwa, T., Sakayanagi, N., Hibi, K. and Senda, M.
Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407
- Kurtev, B. J., see Palamareva, M. D. 545(1991)161
- Kusano, K., see Furuta, T. 525(1990)15
- Kusch, P., see Fischer, W. G. 518(1990)9
- Kusseler, R., see Tombach, B. 521(1990)231
- Kuster, B. F. M., see Verhaar, L. A. T. 549(1991)113
- Kusz, P., see Szymanowski, J. 502(1990)407
- Kusz, P., see Szymanowski, J. 511(1990)325
- Kuthan, A., see Liška, I. 509(1990)123
- Kuwahara, S. K., Brubaker, W. F., Williams, E., Tripp, S., Douglas, F. L. and Kotake, A. N.
Determination of the 5-lipoxygenase inhibitor (CGS 8515) in plasma by high-performance liquid chromatography using reductive electrochemical detection 534(1990)260
- Kuwajima, M., see Yamauchi, Y. 515(1990)285
- Kuwamoto, T., see Hirayama, N. 508(1990)51
- Kuwamoto, T., see Hirayama, N. 523(1990)257
- Kuwata, S., see Yamada, T. 515(1990)475
- Kuzmenko, O., see Kurganov, A. 506(1990)391
- Kvalo, L. T., see Keswani, S. R. 534(1990)77
- Kwakman, P. J. M., Koelewijn, H., Kool, I., Brinkman, U. A. T. and De Jong, G. J.
Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155
- Kwik, W. L., see Ang, H. G. 537(1991)475
- Kwoczek, R., see Kurantz, M. J. 549(1991)387
- Kwon, K. I., see Lee, H. S. 528(1990)425
- Kysilka, R.
Determination of psilocin in rat urine by high-performance liquid chromatography with electrochemical detection 534(1990)287
- ## L
- Laakso, I., Virkajärvi, P., Airaksinen, H. and Varis, E.
Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424
- Laakso, I., see Seppänen-Laakso, T. 530(1990)94
- Laakso, P., see Kallio, H. 518(1990)69
- Laakso, S., Scheinin, M. and Anttila, M.
Determination of erythromycin base and 2'-acetylerythromycin in human plasma using high-performance liquid chromatography with electrochemical detection 526(1990)475
- Laatikainen, R., see Parviainen, M. T. 525(1990)193
- Lacey, E. and Snowdon, K. L.
Isolation of mammalian brain tubulin by amino-activated gel chromatography 525(1990)71
- Lachatre, G., see Nicot, G. 528(1990)258

- Lachno, D. R., Patel, N., Rose, M. L. and Yacoub, M. H.
Improved high-performance liquid chromatographic method for analysis of cyclosporin A using an automated sample processor 525(1990)123
- Lachno, D. R., see Smolenski, R. T. 527(1990)414
- Lackner, H., see Jäger, W. 532(1990)411
- Lacour, B., see Beyne, P. 527(1990)140
- LaCreta, F. P., see Tinsley, P. W. 529(1990)468
- Lacroix, C., Hoang, T. P., Wojciechowski, F., Duwoos, H., Nouveau, J. and Diquet, B.
Simultaneous quantification of zidovudine and its metabolites in serum and urine by high-performance liquid chromatography using a column-switching technique 525(1990)240
- Ladisch, M. R., Hendrickson, R. L. and Firouztaie, E.
Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85
- Ladrón de Guevara, O., Cortinas de Nava, C., Padilla, P., Espinosa, J., Cebrian, M. and García, L.
Rapid determination of β -aminoisobutyric acid by reversed-phase high-performance liquid chromatography 528(1990)35
- Lafont, R., see Kaouadji, N. 505(1990)408
- Lafosse, M., Rollin, P., Elfakir, C., Morin-Allory, L., Martens, M. and Dreux, M.
Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191
- Lafosse, M., see Elfakir, C. 513(1990)354
- Lafosse, M., see Herbreteau, B. 505(1990)299
- Lafta, A. M., see Hassan, N. A. 530(1990)102
- Laghi, C., see Torsi, G. 518(1990)135
- Lahtonen, K., see Örn, G. 506(1990)627
- Lai, G., Nicholson, G., Mühleck, U. and Bayer, E.
Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217
- Lai, K. N., see Chui, S. H. 514(1990)219
- Lai, S.-Y., see Wu, S.-H. 514(1990)325
- Laizure, S. C., Holden, C. L. and Stevens, R. C.
Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N⁴-acetylsulfamethoxazole with solid-phase extraction 528(1990)235
- Lajdová, I., Spustová, V., Mikula, J., Černay, P. and Džúrik, R.
Isolation of an additional inhibitor of glucose utilization in renal insufficiency: pseudouridine 528(1990)178
- Lakings, D. B., Friis, J. M. and Bruns, M. B.
Determination of ditekiren, a renin inhibitor peptide, in monkey serum using high-performance liquid chromatography with solid-phase extraction 526(1990)273
- Lam, C. W. K., see Chui, S. H. 514(1990)219
- Lamas, L., see Escribano, J. 512(1990)255
- Lamb, J. D. and Smith, R. G.
Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73
- Lamb, J. D., see Smith, R. G. 546(1991)139
- Lambert, D., see Djalali, M. 529(1990)81
- Lampert, B. M. and Stewart, J. T.
Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381
- Landgraf, B. E., see Ackland, C. E. 540(1991)187
- Lane, P. A., see Tran, A. D. 542(1991)459
- Lanfranchi, A., see Miraglia, N. 512(1990)123
- Lang, J. K.
Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157
- Lang, J. R., see Martinez, G. 533(1990)235
- Langer, M., see Brückner, H. 521(1990)109
- Langer, M., see Brückner, H. 542(1991)161
- Langer, P., see Schnabel, R. 544(1991)137
- Langguth, P., Spahn, H. and Merkle, H.-P.
Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated S-fluonoxapfen as a chiral derivatizing agent 528(1990)55
- Langmann, P., see Ernemann, U. 528(1990)243
- Langowski, A. J., see Weisz, A. 538(1991)157
- Långström, B., see Hartvig, P. 507(1990)303
- Lanin, S. N. and Nikitin, Y. S.
Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315
- Lanin, S. N. and Nikitin, Y. S.
Molecular interactions in liquid chromatography 537(1991)33
- Lankmayr, E. P., see Djordjevic, N. M. 550(1991)27

- Lansdorp, D., Janssen, T. J., Guelen, P. J. M. and Vrec, T. B.
High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine 528(1990)487
- Lanteri, P., see Vialle, J. 549(1991)159
- Lanuzza, F., see Micali, G. 514(1990)317
- Lanzone, L., see Buzzigoli, G. 507(1990)85
- Lapinjoki, S. P., see Ylisen, M. 505(1990)429
- Lapouyade, R., see Wise, S. A. 514(1990)111
- Lara, A. S. and Eiceman, G. A.
Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283
- Lara, A. S., see Eiceman, G. A. 549(1991)273
- Larionov, O. G., Petrenko, V. V. and Platonova, N. P.
Determination of contributions of different types of solute-sorbent interactions in gas-adsorption chromatography by linear regression of adsorption energies 537(1991)295
- Larousse, C., see Thomare, P. 529(1990)494
- Larroque, M. and Brun, S.
Dosage du méthylmethacrylate dans le sérum par chromatographie liquide à haute performance 525(1990)249
- Larsson, L., see Drevin, I. 514(1990)137
- Lartigue-Mattei, C., Chabard, J. L., Bargnoux, H., Petit, J., Berger, J. A., Ristori, J. M., Bussiere, J. L., Catilina, P. and Catilina, M. J.
Plasma and blood assay of xanthine and hypoxanthine by gas chromatography-mass spectrometry: physiological variations in humans 529(1990)93
- Lartigue-Mattei, C., see Andriollo, O. 533(1990)215
- Lasa, J. and Śliwka, I.
Application of gas chromatography with electron-capture detection to trace analysis of halogenated compounds 509(1990)115
- Lasa, J., see Grochowalski, A. 502(1990)160
- Lasbennes, A., see Straczek, J. 532(1990)237
- Laštinec, J., see Marák, J. 509(1990)287
- Latocha, C., see Szymanowski, J. 502(1990)407
- La Torre, F., see Gasparri, F. 539(1991)25
- Latruffe, N., see Adami, P. 539(1991)279
- Lattanzi, L., see Bruner, F. 517(1990)123
- Lattes, A., see Monje, M. C. 521(1990)148
- Lau, B. P.-Y., see Ryan, J. J. 541(1991)131
- Lau, C. E., Ma, F. and Falk, J. L.
Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95
- Lau, S. W. J., Chow, D. and Feldman, S.
Simultaneous determination of physostigmine and tetrahydroaminoacridine in a transdermal permeation study by high-performance liquid chromatography 526(1990)87
- Laupp, G., see Koppenhoefer, B. 547(1991)239
- Lauren, D. R., see Agnew, M. P. 538(1991)462
- Lauren, D. R., see Hopkins, W. A. 516(1990)442
- Lausecker, B. and Albert, F.-M.
Separation and estimation of small amounts of the enantiomers of carbidopa and methyl dopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115
- Lavine, B. K., White, A. J. and Hwa Han, J.
Solute retention in micellar liquid chromatography 542(1991)29
- Law, C.-K., see Hu, O. Y.-P. 532(1990)337
- Lawrence, J. F. and Ménard, C.
Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595
- Lawrence, J. F., see Chadha, R. K. 518(1990)268
- Lawrence, K., see DeBros, F. 529(1990)449
- Laycock, M. V., see Thibault, P. 542(1991)483
- Lazo, J. S., see Mistry, J. S. 514(1990)86
- Leakey, T. E. B.
Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199
- Learmonth, R. A., see Kaye, P. T. 503(1990)437
- Lebl, M., see Toth, G. 504(1990)450
- Leblanc, R. M., see Gallant, J. 542(1991)307
- Lebot, M., see Poirier, J.-M. 534(1990)223
- Leclerc, J.-M., see Lin, K. T. 536(1991)349
- Leclercq, P. A., see Brandšterová, E. 502(1990)214
- Lecomte, L. and Sinou, D.
Chiral sulphonated phosphines. IV. High-performance liquid chromatographic separation of sulphonated phosphines 514(1990)91
- Lederer, F., see Beyne, P. 527(1990)140
- Lederer, M.
Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367
- Ledingham, S. J. M., see Smolenski, R. T. 527(1990)414
- Ledniczky, L., see Hazai, I. 520(1990)149
- Ledouble, G., see Pierron, C. 511(1990)367

- Ledvinová, J., see Bradová, V. 533(1990)297
- Lee, C. R., Porziemsky, J.-P., Aubert, M.-C. and Krstulovic, A. M.
Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55
- Lee, H.-B. and Peart, T. E.
Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315
- Lee, H. G. and Jarrett, H. W.
Glucose-silica, an improved medium for high-pressure gel filtration chromatography 511(1990)69
- Lee, H. K., see Khan, M. R. 513(1990)360
- Lee, H. K., see Li, S. F. Y. 506(1990)245
- Lee, H. K., see Li, S. F. Y. 515(1990)515
- Lee, H. K., see Lim, K. B. H. 538(1991)492
- Lee, H. K., see Ong, C. P. 515(1990)509
- Lee, H. K., see Ong, C. P. 516(1990)263
- Lee, H. K., see Ong, C. P. 542(1991)473
- Lee, H. K., see Ong, C. P. 547(1991)419
- Lee, H. S., Zee, O. P. and Kwon, K. I.
Simultaneous determination of cefamandole and cefamandole nafate in human plasma and urine by high-performance liquid chromatography with column switching 528(1990)425
- Lee, J. M., see Crooks, A. J. 502(1990)59
- Lee, M. L.
Journal of MicroColumn Separations 502(1990)243
- Lee, M. L., see Bradshaw, J. S. 540(1991)279
- Lee, M. L., see Li, S. F. Y. 515(1990)515
- Lee, M. L., see Raynor, M. W. 505(1990)179
- Lee, M. L., see Sumpter, S. R. 517(1990)503
- Lee, S. H., see Armstrong, D. W. 539(1991)83
- Lee, S. Y., see Bonner, W. A. 504(1990)287
- Lee, T. B. K. and Wong, G. S. K.
High-performance liquid chromatographic enantioseparation of intermediates relating to the total synthesis of (-)-physostigmine 523(1990)317
- Lee, V. M.-Y., see Otvos, Jr., L. 512(1990)265
- Lee, W.-C., Tsai, G. J. and Tsao, G. T.
Effects of isotherm non-linearity on the determination of the binding constant in affinity chromatography 504(1990)55
- Lee, Y. M., Nakamura, H. and Nakajima, T.
Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467
- Lee, Y. W.
Dual counter-current chromatography — its applications in natural products research (Review) 538(1991)37
- Lefebvre, M. A., see Marzo, A. 536(1991)327
- Lefebvre, R. A., see Rosseel, M. T. 507(1990)247
- Leff, V., Gao, J.-P., Vega, L. R. and Herrera, R. J.
Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462
- Lehmann, A., see Zobel, H. 509(1990)27
- Lehotay, J., see Brandšteterová, E. 502(1990)214
- Lehotay, J., see Brandšteterová, E. 545(1991)205
- Lehr, K. H. and Damm, P.
Simultaneous determination of the sulphonylurea glimepiride and its metabolites in human serum and urine by high-performance liquid chromatography after pre-column derivatization 526(1990)497
- Lehtonen, P., see Härmälä, P. 507(1990)367
- Leigh, P. H. and Bowker, M. J.
Simple procedure involving derivatization and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211
- Leipe, I., see Kramer, W. 521(1990)199
- Leis, H. J., Leis, M., Welz, W. and Malle, E.
Determination of captopril in human blood by gas chromatography-negative-ion chemical ionization mass spectrometry with [$^{18}\text{O}_2$]captopril as internal standard 529(1990)299
- Leis, H.-J., Welz, W. and Malle, E.
11-Dehydrothromboxane B_2 : convenient preparation of its stable isotope-labelled analogue for use in quantitative gas chromatography-mass spectrometry 526(1990)169
- Leis, H.-J., see Welz, W. 526(1990)319
- Leis, M., see Leis, H. J. 529(1990)299
- Leistler, B., see Herold, M. 539(1991)383
- Leisztner, L., see Veress, T. 520(1990)339
- Leitner, O., see Novick, D. 510(1990)331
- Lelievre, G., see Thuaud, N. 503(1990)453
- Lelyveld, G. P., see Van Beek, T. A. 543(1991)375
- Lema, M., Otero, J. and Marcó, J.
Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113
- Lemieux, L. and Amiot, J.
High-performance liquid chromatography of casein hydrolysates phosphorylated and

- dephosphorylated. I. Peptide mapping
519(1990)299
- Lemieux, R. E., see Greene, S. V. 527(1990)397
- Le Moigne, F., see Fourche, J. 532(1990)209
- Le Moing, J. P. and Levron, J. C.
High-performance liquid chromatographic
determination of etomidate in plasma
529(1990)217
- Lemque, R., see Cysewski, P. 548(1991)61
- Lendrath, G., Nasner, A. and Kraus, L.
Behaviour of vegetable phospholipids in
thin-layer chromatography. Optimization of
mobile phase, detection and direct
evaluation 502(1990)385
- Leng, W.-X., see Rokushika, S. 514(1990)355
- Lengyel, J., see Benkő, S. 520(1990)379
- Lenzen, S., see Rustenbeck, I. 525(1990)85
- Leoncini, R., see Terzuoli, L. 514(1990)80
- Leoncini, R., see Terzuoli, L. 547(1991)472
- Leong, W. K., see Ang, H. G. 537(1991)475
- Leon-Gonzalez, M. E. and Townshend, A.
Determination of organophosphorus and
carbamate pesticide standards by liquid
chromatography with detection by inhibition
of immobilized acetylcholinesterase
539(1991)47
- Leoni, P., Heyworth, P. and Segal, A. W.
Separation of phosphoproteins by fast
protein liquid chromatography
527(1990)152
- Leopold, E. J., see Tran, A. D. 516(1990)241
- Lepoivre, M., see Chenais, B. 539(1991)433
- Leray, C., see Rastegar, A. 518(1990)157
- Lessard, D., see Martinez, G. 533(1990)235
- Le Vent, S., see Akporhonor, E. E.
504(1990)269
- Levin, S. and Abu-Lafi, S.
Competition between phenylalanine and
acetic acid in a chromatographic column as
indicated by their adsorption isotherms
517(1990)285
- Levron, J. C., see Le Moing, J. P. 529(1990)217
- Levsen, K., see Feltes, J. 518(1990)21
- Levy, E. J., see Ryan, T. W. 505(1990)273
- Levy, S., see Woolfson-Bartfeld, D.
517(1990)305
- Lewin, L. M., see Vree, T. B. 534(1990)214
- Lewis, R. C., see Schwende, F. J. 525(1990)151
- Lewis, V. D., see Urasa, I. T. 547(1991)211
- Lewis, W. H. P., see Chui, S. H. 514(1990)219
- Leyendecker, D., see Hütz, A. 505(1990)99
- Leyendecker, D., see Küppers, S. 505(1990)109
- Lhermitte, M., see Pommery, J. 526(1990)569
- Li, G. P., see Yurek, D. A. 502(1990)184
- Li, H.-Y., see Wu, C.-Y. 504(1990)279
- Li, J., Caldwell, K. D. and Mächtel, W.
Particle characterization in centrifugal fields.
Comparison between ultracentrifugation and
sedimentation field-flow fractionation
517(1990)361
- Li, J., Dallas, A. J. and Carr, P. W.
Empirical scheme for the classification of gas
chromatographic stationary phases based on
solvatochromic linear solvation energy
relationships 517(1990)103
- Li, J., Zhang, Y., Dallas, A. J. and Carr, P. W.
Measurement of solute dipolarity/
polarizability and hydrogen bond acidity by
inverse gas chromatography 550(1991)101
- Li, J., see Xie, F. 526(1990)109
- Li, J. B. and Jandik, P.
Separation and detection of non-
chromophoric, anionic surfactants
546(1991)395
- Li, J. B., see Gjerde, D. T. 546(1991)151
- Li, J. B., see Jackson, P. E. 546(1991)189
- Li, K.
Simple and rapid thin-layer chromatographic
method for quantitative measurement of free
cholesterol in serum 532(1990)449
- Li, P., Zhang, T.-Y., Hua, X. and Ito, Y.
Studies on the preparative capability of the
horizontal flow-through coil planet
centrifuge and high-performance liquid
chromatography in the separation of polar
compounds from *Oxytropis ochrocephala*
Bunge 538(1991)219
- Li, S. and Purdy, W. C.
Liquid chromatographic separation of the
enantiomers of dinitrophenyl amino acids
using a β -cyclodextrin-bonded stationary
phase 543(1991)105
- Li, S. F. Y., Lee, H. K. and Ong, C. P.
Optimization of mobile phase composition
for high-performance liquid
chromatographic separation by means of the
overlapping resolution mapping scheme
506(1990)245
- Li, S. F. Y., Ong, C. P., Lee, M. L. and Lee, H.
K.
Supercritical fluid extraction and
chromatography of steroids with Freon-22
515(1990)515
- Li, S. F. Y., see Khan, M. R. 513(1990)360
- Li, S. F. Y., see Ong, C. P. 515(1990)509
- Li, S. F. Y., see Ong, C. P. 516(1990)263
- Li, S. F. Y., see Ong, C. P. 542(1991)473
- Li, S. F. Y., see Ong, C. P. 547(1991)419
- Li, W.-Y., Jin, H. L. and Armstrong, D. W.
2,6-Di-O-pentyl-3-O-trifluoroacetyl
cyclodextrin liquid stationary phases for
capillary gas chromatographic separation of
enantiomers 509(1990)303
- Li, W. Y., see Ko, R. J. 525(1990)411
- Li, X., see Hirayama, C. 530(1990)148

- Li, Y., see Amati, D. 539(1991)237
- Lian, D.-X., Yang, L., Yun, W.-X., Hua, S. and Hu, C.
Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526
- Liapis, A. I., see McCoy, M. A. 548(1991)25
- Liautard, J.-P., see Ferraz, C. 539(1991)465
- Liberti, A., see Bertoni, G. 522(1990)285
- Lieber, A.-K., see Kågedal, L. 537(1991)17
- Liebich, H. M. and Först, C.
Basic profiles of organic acids in urine 525(1990)1
- Liebich, H. M., see Kühlkamp, V. 528(1990)267
- Liebscher, G., see Eppert, G. 508(1990)149
- Lie Ken Jie, M. S. F., Choi, C. Y. C., Berger, A. and Berger, R. G.
Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography-mass spectrometry of the picolinyl ester derivatives 543(1991)257
- Lifschitz, C. H., see Feste, A. S. 518(1990)349
- Light, R. J., see Priest, J. W. 513(1990)237
- Lillsunde, P. and Seppälä, T.
Simultaneous screening and quantitative analysis of benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection 533(1990)97
- Lim, C. K., see Gu, G. 515(1990)183
- Lim, C. K., see Guo, R. 550(1991)603
- Lim, K. B. H., Phang, L.-T., Khan, M. R., Hor, T. S. A. and Lee, H. K.
High-performance liquid chromatographic separation of heterometallic 1,1'-bis(diphenylphosphino)ferrocene-substituted metal carbonyls 538(1991)492
- Lin, B., Golshan-Shirazi, S. and Guiochon, G.
Perturbation analysis of the influence of the isotherm coupling factor on the resolution between two compounds in chromatography 508(1990)27
- Lin, B., Ma, Z. and Guiochon, G.
Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1
- Lin, C.-E., Yang, Y.-H. and Yang, M.-H.
Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49
- Lin, G., see Chang, C. A. 522(1990)143
- Lin, J. H., see Chen, I.-W. 534(1990)119
- Lin, J.-N., Chang, I.-N., Andrade, J. D., Herron, J. N. and Christensen, D. A.
Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41
- Lin, J.-T., Stafford, A. E., Steffens, G. L. and Murofushi, N.
Gradient C_{18} high-performance liquid chromatography of gibberellins 543(1991)471
- Lin, K. T., Varin, F., Rivard, G. E. and Leclerc, J.-M.
Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349
- Lin, M., see Seno, M. 508(1990)127
- Lin, M., see Seno, M. 523(1990)293
- Lin, S., Oroszlan, P. and Karger, B. L.
Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17
- Lin, S.-C., see Maa, Y.-F. 508(1990)61
- Lin, S.-L., Chen, S.-T., Wu, S.-H. and Wang, K.-T.
Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392
- Lin, S.-L., see Wu, S.-H. 514(1990)325
- Linari, F., see Petrarulo, M. 511(1990)223
- Linari, F., see Petrarulo, M. 532(1990)130
- Lindberg, P., see Erlandsson, P. 532(1990)305
- Linde, S., Nielsen, J. H., Hansen, B. and Welinder, B. S.
High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29
- Linde, S., Røder, M. E., Hartling, S. G., Binder, C. and Welinder, B. S.
Separation and quantitation of serum proinsulin and proinsulin intermediates in humans 548(1991)371
- Linde, S. and Welinder, B. S.
Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid-acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43
- Linde, S. and Welinder, B. S.
Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195
- Linde, S., see Welinder, B. S. 537(1991)201
- Linde, S., see Welinder, B. S. 542(1991)65
- Lindgård, B., Mathiasson, L., Jönsson, J. Å. and Åkesson, B.
Controlled thermal degradation for the

- identification and quantification of amine N-oxides in urine 514(1990)293
- Lindgren, K., see Allenmark, S. 532(1990)203
- Lindner, W.
Chiral liquid chromatography (edited by W. J. Lough) (Book Review) 509(1990)408
- Lindsay Smith, J. R., Smart, A. U., Hancock, F. E. and Twigg, M. V.
High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447
- Lindström, M., Norin, T. and Roeraade, J.
Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315
- Ling, C. F., Melian, G. P., Jimenez-Conde, F. and Revilla, E.
Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359
- Lingeman, H., see Vannoort, R. W. 505(1990)45
- Linhart, I. and Novák, J.
Biotransformation of diethenylbenzenes. II. Metabolic pattern of 1,4-diethenylbenzene 530(1990)283
- Lin Ling, B., Baeyens, W. R. G. and Raemdonck, A.
Application of high-performance thin-layer chromatography-fluorescence densitometry to the simultaneous determination of reduced and oxidized glutathione 502(1990)230
- Lin Ling, B., Dewaele, C. and Baeyens, W. R. G.
Application of micro-scale liquid chromatography with fluorescence detection to the determination of thiols 514(1990)189
- Linton, C. L., see Elrod, Jr., L. 519(1990)125
- Lipari, F.
Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51
- Lipkowski, J., see Pawłowska, M. 547(1991)59
- Lippoli, G., see Pace, M. 539(1991)517
- Lisi, D. D., see Stuart, J. D. 550(1991)77
- Lisi, P. J., see Tran, A. D. 542(1991)459
- Liška, I., Kuthan, A. and Krupčík, J.
Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123
- Lisseter, S. G. and Hambling, S. G.
Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207
- Litzén, A. and Wahlund, K.-G.
Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393
- Liu, D., Wood, G. W. and Desiderio, D. M.
Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235
- Liu, H., see Zhang, A. 521(1990)128
- Liu, H., see Zhu, P. 511(1990)390
- Liu, J., Cobb, K. A. and Novotny, M.
Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189
- Liu, T.-Y. and Robbat, Jr., A.
High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1
- Liu, T.-Y., see Robbat, Jr., A. 513(1990)117
- Liu, W., Chen, Z., Xu, H., Shi, Y. and Chen, Y.
Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography 547(1991)509
- Liu, X., see Das, D. K. 536(1991)273
- Liu, Y. and Yu, S.
Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169
- Liversidge, G. G., see Eickhoff, W. M. 536(1991)255
- Liversidge, G. G., see Eisenberg, E. J. 530(1990)65
- Lloyd, D. K., see Wu, Z. 513(1990)209
- Lloyd, L. L.
Rigid macroporous copolymers as stationary phases in high-performance liquid chromatography (Review) 544(1991)201
- Lloyd, L. L. and Warner, F. P.
Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365
- Lo, C.-H. and Chiou, S.-H.
Simple fractionation of phospholipase A₂ analogues from snake venom by high-performance liquid chromatography 530(1990)129
- Lo, M. F., see Wedzicha, B. L. 505(1990)357
- Łobarzewski, J., Grzywnowicz, K., Wawrzkiwicz, K., Staszczak, M. and Wolski, T.
Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223

- Lochmüller, C. H. and Mink, L. P.
Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119
- Locke, D. C., see Schmermund, J. T. 505(1990)319
- Lockemeyer, M. R. and Smith, C. V.
Analysis of pentoxifylline in rabbit plasma using a HisepTM high-performance liquid chromatography column 532(1990)162
- Lochniskar, A., see Greenblatt, D. J. 534(1990)202
- Lodi, G., Betti, A., Kahie, Y. D. and Mahamed, A. M.
Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214
- Lodi, G., see Betti, A. 513(1990)219
- Lodi, G., see Menziani, E. 511(1990)396
- Loebs, P., see DeAngelis, R. 525(1990)389
- Loennechen, T. and Dahl, S. G.
High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205
- Löffler, F., see Kasche, V. 510(1990)149
- Loftus, N. J., see Burton, L. C. 526(1990)159
- Logan, B. K. and Patrick, K. S.
Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography 529(1990)175
- Loguercio, C., see Nardi, G. 530(1990)122
- Loh, J.-P. and Ahmed, A. E.
Determination of camptothecin in biological fluids using reversed-phase high-performance liquid chromatography with fluorescence detection 530(1990)367
- Lohleit, M. and Bächmann, K.
Integrated analysis of solid samples by on-line supercritical fluid extraction-gas chromatography 505(1990)227
- Lohmann, A. and Dingler, E.
New assay method for the determination of vinpocetine in human plasma with gas chromatography-mass spectrometry without transesterification caused by solvents 529(1990)442
- Lommen, D. C., see Dolan, J. W. 535(1990)55
- Lommen, D. C., see Snyder, L. R. 535(1990)75
- Lo Moro, A., see Raspi, G. 525(1990)426
- Long, A. R., Charkhian, B., Hsieh, L. C., Short, C. R. and Barker, S. A.
Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395
- Long, A. R., Short, C. R. and Barker, S. A.
Method for the isolation and liquid chromatographic determination of eight sulfonamides in milk 502(1990)87
- Long, D. A., see Mayer, W. J. 536(1991)131
- Longeray, R., see Vialle, J. 549(1991)159
- Longobardi, M. G., see Viscomi, G. C. 549(1991)175
- Loo, J. A., see Smith, R. D. 516(1990)157
- Lookabaugh, M., Biswas, M. and Krull, I. S.
Quantitation of insulin by high-performance liquid chromatography and high-performance capillary electrophoresis 549(1991)357
- Lopez, L. M., see Schaefer, H. G. 527(1990)351
- Lopez-Calahorra, F., see Velasco, D. 519(1990)228
- López-Roca, J.-M., see Almela, L. 502(1990)95
- Lorentzon, P., see Erlandsson, P. 532(1990)305
- Lorne Burke, T. W., see Hodges, R. S. 548(1991)267
- Lorusso, V., Poggesi, I., Dal Fiume, D. and Tirone, P.
High-performance liquid chromatographic assay of iomeprol in plasma and urine 525(1990)401
- Loschi, L., see Girometta, M.A. 507(1990)227
- Loth, F., see Krause, E. 520(1990)263
- Lou, X., Sheng, Y. and Zhou, L.
Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253
- Lou, Z.-C., see Zeng, L. 513(1990)247
- Lovell, G. and Corran, P. H.
Determination of L-thyroxine in reference serum preparations as the *o*-phthalaldehyde-N-acetylcysteine derivative by reversed-phase liquid chromatography with electrochemical detection 525(1990)287
- Lovette, M. E., see Byrd, G. D. 503(1990)359
- Lovette, M. E., see Nanni, E. J. 505(1990)365
- Löw, H., see Engelhardt, H. 544(1991)371
- Lów, M., see Péter, A. 507(1990)59
- Lowe, C. R., Yon Hin, B. F. Y., Cullen, D. C., Evans, S. E., Stephens, L. D. G. and Maynard, P.
Biosensors (Review) 510(1990)347
- Lowe, C. R., see Burton, S. J. 508(1990)109
- Lowe, C. R., see Clonis, Y. D. 540(1991)103
- Lowe, C. R., see Stewart, D. J. 510(1990)177
- Lu, D., see Mou, S. 546(1991)289
- Lu, P., Zou, H. and Zhang, Y.
Effects of molecular structure on parameters *a*, *b* and *c* in the fundamental retention equation 509(1990)171
- Lu, P., see Zhang, Y. 515(1990)13
- Lu, P., see Zou, H. 522(1990)49
- Lu, P., see Zou, H. 523(1990)247
- Lu, P., see Zou, H. 545(1991)59
- Lu, X.-L. and Yang, S. K.
Resolution of enantiomeric lorazepam and its acyl and *O*-methyl derivatives and

- racemization kinetics of lorazepam enantiomers 535(1990)229
- Lu, X.-R., see Wu, C.-Y. 504(1990)279
- Lu, Z., Veening, H. and Coutant, J. E.
Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199
- Lubińska, V. K. and Muszyńska, G.
Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171
- Lucarelli, C., Betto, P., Ricciarello, G., Giambenedetti, M., Corradini, C., Stocchi, F. and Belliardo, F.
Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167
- Lucarelli, C., Betto, P., Ricciarello, G. and Grossi, G.
High-performance liquid chromatographic determination of L-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyl dopa) in human urine and plasma 541(1991)285
- Lucarelli, C., Radin, L., Corio, R. and Eftimiadi, C.
Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415
- Lucarelli, C., see Belliardo, F. 506(1990)371
- Lucarelli, C., see Belliardo, F. 535(1990)305
- Lucarelli, C., see Biondi, P. A. 507(1990)333
- Lucarelli, C., see Codini, M. 536(1991)337
- Lucarelli, C., see Grossi, G. 541(1991)273
- Lucarelli, C., see Guida, E. 507(1990)51
- Lucarelli, C., see Segatti, M. P. 536(1991)319
- Lucy, C. A., Luong, T.-L. and Elchuk, S.
Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27
- Ludden, T. M., see Wong, Y. W. J. 534(1990)161
- Ludwig, S. and Schmidt, H.-D.
Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69
- Luffer, D. R., Ecknig, W. and Novotny, M.
Physicochemical model of retention for capillary supercritical fluid chromatography 505(1990)79
- Luffer, D. R. and Novotny, M.
Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477
- Lugnier, A. A., see Boukhabza, A. 529(1990)210
- Lugnier, A. A., see Kennel, S. 527(1990)169
- Luhmann, I. and Szathmary, S. C.
Sensitive and automated gas chromatographic method for the determination of etomidate in plasma samples 532(1990)150
- Lukács, F., see Péter, A. 507(1990)59
- Lundahl, P., Mascher, E., Kameyama, K. and Takagi, T.
Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111
- Lundahl, P. and Yang, Q.
Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283
- Lundahl, P., see Wallstén, M. 512(1990)3
- Lundahl, P., see Yang, Q. 506(1990)379
- Lundahl, P., see Yang, Q. 512(1990)377
- Lundström, H., see Kågedal, L. 537(1991)17
- Lunte, C. E., see Scott, D. O. 506(1990)461
- Luong, T.-L., see Lucy, C. A. 546(1991)27
- Luque, J., see García-Pérez, A.-I. 504(1990)79
- Lurdes S. Almeida, M., see Fransson, B. 508(1990)229
- Lurie, I. S., Moore, J. M., Kram, T. C. and Cooper, D. A.
Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391
- Lustenberger, P., see Denis, M. 508(1990)97
- Lutz, S., see König, W. A. 503(1990)256
- Lux, M., see Dandeu, J.-P. 512(1990)177
- Lux, M., see Dandeu, J. P. 539(1991)475
- Lydon, J., Engelke, B. F. and Helling, C. S.
Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223
- Lynch, R. J., see Schoenmakers, P. J. 506(1990)169
- Lyrenäs, S., see Nyberg, F. 548(1991)311
- Lys, I., see Simpson, R. C. 536(1991)143

M

- Ma, F., see Lau, C. E. 532(1990)95
- Ma, Z., see Lin, B. 542(1991)1
- Maa, Y.-F., Lin, S.-C., Horváth, C., Yang, U.-C. and Crothers, D. M.
Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61
- Maas, E., Adami, P. and Bisswanger, H.
Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169
- Mabuchi, H. and Nakahashi, H.
Separation of albumin-binding ligands present in uremic serum by high-performance affinity chromatography 529(1990)424
- Maccari, F., Ferrari, L., Pessotto, P. and Ramacci, M. T.
L-Carnitine interference in gas chromatographic determination of total trimethylamine in urine: a novel assay method 532(1990)124
- MacConnell, J. G., see Demchak, R. J. 511(1990)353
- MacDonald, N., see Midgley, J. M. 527(1990)259
- Mace, P., see Hill, D. A. 523(1990)11
- Macek, J., Tjaden, U. R. and Van der Greef, J.
Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177
- Macek, K.
Chromatographic analysis of pharmaceuticals (edited by J. A. Adamovics) (Book Review) 545(1991)219
- Macfarlane, R. G., Midgley, J. M., Watson, D. G. and Evans, P. D.
Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1
- Macfarlane, R. G., Midgley, J. M., Watson, D. G. and Evans, P. D.
Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13
- Machida, R., Tokumura, T., Sasaki, A., Tsuchiya, Y. and Abe, K.
High-performance liquid chromatographic determination of (Me)Arg-Lys-Pro-Trp-tert-Leu-Leu in plasma 534(1990)190
- Machin, K. J., see Hodder, A. N. 507(1990)33
- Machin, K. J., see Hodder, A. N. 517(1990)317
- Mächtle, W., see Li, J. 517(1990)361
- Macka, M., see Šalamoun, J. 514(1990)179
- MacKichan, J. J. and Bechtel, T. P.
Quantitation of busulfan in plasma by high-performance liquid chromatography 532(1990)424
- MacLeod, S. K.
Compensated delay volume as an approach to improve the inter-laboratory transferability of gradient high-performance liquid chromatographic assays 540(1991)373
- MacLeod, S. K., Fagan, D. T. and Scholl, J. P.
Comments on solute-solvent interactions in quantitative high-performance liquid chromatography 502(1990)236
- MacNeil, J. D., see Vanderkop, P. A. 508(1990)386
- MacPherson, K. A., see Thompson, T. S. 543(1991)49
- Madajová, V., see Marák, J. 509(1990)287
- Madjar, C.-V., see Sebillé, B. 531(1990)51
- Madonini, V., see Søndergaard, I. 512(1990)115
- Maeda, M., Shimada, S. and Tsuji, A.
High-performance liquid chromatography with a 3α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329
- Maeda, M., see Hirukawa, M. 507(1990)95
- Maeda, N., see Kawasaki, H. 516(1990)450
- Maeda, N., see Usui, H. 515(1990)375
- Maeda, Y., see Oka, H. 538(1991)149
- Maehr, R., see DeAngelis, R. 525(1990)389
- Maessen, P. A., see De Jong, J. 529(1990)359
- Magara, H., see Shinohara, Y. 525(1990)93
- Magnico, P. and Martin, M.
Dispersion in the interstitial space of packed columns 517(1990)31
- Magnin, P., see Makki, S. 539(1991)443
- Maguire, M. H., see Wiley, D. M. 533(1990)73
- Mahamed, A. M., see Lodi, G. 545(1991)214

- Mahmoud, M. E., Moussa, A. M., Forsyth, D. A. and Vouros, P.
Hydrogen-deuterium exchange in fused-silica capillary columns 549(1991)416
- Mahoney, N. E. and Roitman, J. N.
High-performance liquid chromatographic analysis of phenylpyrroles produced by *Pseudomonas cepacia* 508(1990)247
- Mahuzier, G., see Tod, M. 542(1991)295
- Maier-Rosenkranz, J., see Ilg, M. 517(1990)263
- Maity, S., see Das, D. K. 536(1991)273
- Maki, A. H., see Alfredson, T. V. 507(1990)277
- Maki, S. A. and Danielson, N. D.
Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101
- Makino, A., see Honda, S. 515(1990)653
- Makino, Y., see Hiro, T. 528(1990)315
- Makita, A., see Kato, N. 549(1991)133
- Makita, A., see Saga, Y. 513(1990)379
- Makita, M., see Kataoka, H. 528(1990)172
- Makki, S., Muret, P., Renaud, A., Agache, P. and Magnin, P.
Simple equilibrium dialysis-high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxy-psoralen bound to human albumin 539(1991)443
- Malamataris, S., see Avgerinos, A. 533(1990)271
- Malanik, V., see Malaniková, M. 513(1990)401
- Malaniková, M., Malanik, V. and Marek, M.
Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401
- Malfait, T. and Van Cauwelaert, F.
Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369
- Malisova, A. D., see Gavrichev, V. S. 509(1990)59
- Malíková, J., see Hušek, P. 533(1990)166
- Malle, E., see Leis, H.-J. 526(1990)169
- Malle, E., see Leis, H. J. 529(1990)299
- Malle, E., see Welz, W. 526(1990)319
- Mallia, A. K., see Domen, P. L. 510(1990)293
- Mallikaarjun, K. R. and Karnes, H. T.
Bioanalysis of anti-ulcer agents 531(1990)407
- Malmer, M. F. and Schroeder, L. A.
Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethyl-chloroformate derivatization 514(1990)227
- Maloney, J. A. and Awni, W. M.
High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487
- Manabe, S., Wada, O. and Kanai, Y.
Simultaneous determination of amino- α -carbolines and amino- γ -carbolines in cigarette smoke condensate by high-performance liquid chromatography 529(1990)125
- Manabe, T., see Yamamoto, H. 515(1990)659
- Manchester, K. L., see Bhoolia, D. 545(1991)196
- Mancinelli, A., see D'Aranno, V. 525(1990)234
- Mandal, S., Naqvi, A. A. and Thakur, R. S.
Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468
- Mandeville, W. H., see Phillips, D. J. 536(1991)95
- Manera, E., see Pietta, P. 513(1990)397
- Mangani, F., see Bruner, F. 517(1990)123
- Mangels, J., see Schröder, B. 514(1990)241
- Mangia, A., see Bolzoni, L. 518(1990)221
- Mangiarotti, M., see Segatti, M. P. 536(1991)319
- Mangin, P., see Boukhabza, A. 529(1990)210
- Mangin, P., see Kennel, S. 527(1990)169
- Mangin, P., see Tracqui, A. 529(1990)369
- Maniongui, C., Gresti, J., Bugaut, M., Gauthier, S. and Bezar, J.
Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography 543(1991)81
- Manjini, S., see Müller-Schulte, D. 539(1991)307
- Manna, F., see Gagliardi, L. 508(1990)252
- Mann-Buxbaum, E., see Schalkhammer, T. 510(1990)355
- Manoha, M., see Rouchouse, A. 506(1990)601
- Mant, C. T., see Hodges, R. S. 548(1991)267
- Mant, C. T., see Zhou, N. E. 548(1991)179
- Mant, C. T., see Zhu, B.-Y. 548(1991)13
- Manz, H. J., see Zeller, M. 545(1991)421
- Manzocchi, A., see Chiari, M. 548(1991)381
- Mao, J., see Ye, M. 518(1990)238
- Mao, Q. M., Johnston, A., Prince, I. G. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147
- Mao, Q. M., see Johnston, A. 548(1991)127
- Marák, J., Laštinec, J., Kaniansky, D. and Madajová, V.
Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287
- Marák, J., see Hutta, M. 509(1990)271
- Marák, J., see Kaniansky, D. 502(1990)143
- Marangella, M., see Petrarulo, M. 511(1990)223

- Marangella, M., see Petrarulo, M. 532(1990)130
- Marcé, R. M., Calull, M., Olucha, J. C., Borrull, F. and Rius, F. X.
Optimized isocratic separation of major carboxylic acids in wine 542(1991)277
- Marcelo-Curto, M. J., see Gigante, B. 549(1991)217
- Marchal, J., see Sentier, L. 547(1991)531
- Marchese, E., Vita, N., Maureaud, T. and Ferrara, P.
Separation by cation-exchange high-performance liquid chromatography of three forms of Chinese hamster ovary cell-derived recombinant human interleukin-2 504(1990)351
- Marchetti, M., see Carfagnini, G. 530(1990)359
- Marchetti, M., see Di Corcia, A. 541(1991)365
- Marchiori, F., see Calderan, A. 548(1991)329
- Marcišauskas, R., see Markauskas, A. 539(1991)525
- Marcó, J., see Lema, M. 547(1991)113
- Marcolli, C., see Thormann, W. 545(1991)445
- Marcucci, F., see Colombo, L. 530(1990)141
- Marder, S. R., see Aravagiri, M. 525(1990)419
- Marek, A., see Glatz, Z. 503(1990)197
- Marek, M., see Malaniková, M. 513(1990)401
- Marello, B., see Morgan, D. 502(1990)351
- Marengo, E., see Gennaro, M. C. 518(1990)149
- Mareš, P., see Řezanka, T. 509(1990)333
- Mareš, P., see Řezanka, T. 542(1991)145
- Mareš, P., see Tvřizická, E. 530(1990)424
- Marheni, Haddad, P. R. and McTaggart, A. R.
On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221
- Marigo, M., see Tagliaro, F. 507(1990)253
- Marin, O., see Calderan, A. 548(1991)329
- Marinello, E., see Terzuoli, L. 514(1990)80
- Marinello, E., see Terzuoli, L. 547(1991)472
- Marini, M. A., see Fishman, R. M. 532(1990)55
- Marini, M. G., see Colombo, L. 530(1990)141
- Maris, F., Hindriks, R., Vink, J., Peeters, A., Vanden Driessche, N. and Massart, L.
Validation of an expert system for the selection of initial high-performance liquid chromatographic conditions for the analysis of basic drugs 506(1990)211
- Maris, F., see Mulholland, M. 550(1991)257
- Maris, F. A., Vervoort, R. J. M. and Hindriks, H.
Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45
- Markauskas, A., Tiknius, V. and Marcišauskas, R.
Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525
- Markides, K. E., see Bradshaw, J. S. 540(1991)279
- Markides, K. E., see Raynor, M. W. 505(1990)179
- Markides, K. E., see Sumpter, S. R. 517(1990)503
- Markin, R. S., Wadman, M. C., Bottjen, P. L., Haven, M. C. and Huth, J. A.
Short-column liquid chromatographic assay for caffeine and chloramphenicol in serum 525(1990)464
- Marko, V., see Weber, H. 525(1990)459
- Markopoulou, C., see Kountourellis, J. E. 502(1990)189
- Marko-Varga, G., Dominguez, E., Hahn-Hägerdal, B. and Gorton, L.
Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423
- Marko-Varga, G., Dominguez, E., Hahn-Hägerdal, B., Gorton, L., Irth, H., De Jong, G. J., Frei, R. W. and Brinkman, U. A. T.
On-line sample clean-up of fermentation broths and substrates prior to the liquid chromatographic separation of carbohydrates 523(1990)173
- Markowski, W., Dzido, T. H. and Soczewiński, E.
Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81
- Marlett, J. A., see Kraus, R. J. 513(1990)71
- Marquet, P., see Nicot, G. 528(1990)258
- Márquez-Ruíz, G., Pérez-Camino, M. C. and Dobarganes, M. C.
Combination of adsorption and size-exclusion chromatography for the determination of fatty acid monomers, dimers and polymers 514(1990)37
- Marquina, R., see Hernandez, L. 502(1990)247
- Marr, J. G. D., Seaton, G. G. R., Clark, B. J. and Fell, A. F.
Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289
- Marshall, P. S., see Straka, R. J. 530(1990)83
- Marston, A., see Vallat, P. 504(1990)411
- Martal, J., see Straczek, J. 533(1990)35
- Martea, M., see Vree, T. B. 526(1990)119
- Martea, M., see Vree, T. B. 534(1990)214
- Martens, D. A. and Frankenberger, Jr., W. T.
Determination of saccharides in biological materials by high-performance anion-

- exchange chromatography with pulsed amperometric detection 546(1991)297
- Martens, M., see Lafosse, M. 505(1990)191
- Mårtensson, E., see Svensson, C. 529(1990)229
- Martin, J., see Patel, A. 510(1990)83
- Martin, J. L., see Alonso-Silva, I. J. 507(1990)293
- Martin, M., see Magnico, P. 517(1990)31
- Martin, M., see Thévenon-Emeric, G. 550(1991)267
- Martin, R. M., see Arrendale, R. F. 518(1990)307
- Martin, S. G., see Stratford, M. R. L. 526(1990)383
- Martinelli, E. M., see Marzo, A. 535(1990)255
- Martinez, A. M., see Gatrone, R. C. 516(1990)395
- Martinez, G., Hart, R. W., Hill, H. M., Lang, J. R., Lessard, D. and Houle, J. M. Determination of loxidine in human serum by capillary column gas chromatography with nitrogen-phosphorus detection 533(1990)235
- Martinez, Jr., J. L., see Shibanoki, S. 532(1990)249
- Martin-Hopkins, M. B., see Gilpin, R. K. 513(1990)1
- Martinsen, A. and Huhtikangas, A. Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232
- Martire, D. E., Riestler, R. L., Bruno, T. J., Hussam, A. and Poe, D. P. Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135
- Martire, D. E., see Alvarez-Zepeda, A. 550(1991)285
- Martire, D. E., see Poe, D. P. 517(1990)3
- Martínez, D., Jurado, M. C. and Repetto, M. Analysis of buprenorphine in plasma and urine by gas chromatography 528(1990)459
- Martyn, J., see Annan, R. S. 526(1990)228
- Maruo, M., see Hirayama, N. 523(1990)257
- Maruyama, T., see Takeba, K. 504(1990)441
- Maruyama, Y., see Ikarashi, Y. 533(1990)23
- Maruyama, Y., see Kim, C.-H. 512(1990)131
- Marvin, C. H., Brindle, I. D., Hall, C. D. and Chiba, M. Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167
- Marvin, C. H., Brindle, I. D., Singh, R. P., Hall, C. D. and Chiba, M. Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242
- Marzo, A., Arrigoni Martelli, E., Bruno, G., Martinelli, E. M. and Pifferi, G. Assay of hydroxyfarrerol in biological fluids 535(1990)255
- Marzo, A., Arrigoni Martelli, E., Bruno, G., Nava, D., Mignot, A., Vidal, R. and Lefebvre, M. A. High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)-propionylglycine and its two metabolites in biological fluids 536(1991)327
- Marzo, A., Cardace, G., Monti, N., Muck, S. and Arrigoni Martelli, E. Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247
- Marzo, A., Monti, N., Ripamonti, M., Arrigoni Martelli, E. and Picari, M. High-performance liquid chromatographic assay of ampicillin and its prodrug lenampicillin 507(1990)235
- Marzo, A., Monti, N., Ripamonti, M., Muck, S. and Arrigoni Martelli, E. Determination of aliphatic amines by gas and high-performance liquid chromatography 507(1990)241
- Mascher, E., see Lundahl, P. 518(1990)111
- Mascher, H. and Kikuta, C. Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417
- Maschler, R., see Steiner, V. 530(1990)273
- Masella, R., see Cantafora, A. 507(1990)339
- Maslowska, J. and Starzyński, S. Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylaceton by reversed-phase high-performance liquid chromatography 502(1990)221
- Massa, M., see Miraglia, N. 512(1990)123
- Massart, L., see Maris, F. 506(1990)211
- Massey, I. J., see Wu, A. T. 534(1990)241
- Massey, P. R., see Wu, Z. 513(1990)209
- Massil, S. E. and Ovadia, D. Determination of phosgene as its N,N,N',N'-tetraethylurea derivative by gas chromatography 538(1991)435
- Massolini, G., see Gandini, C. 540(1991)416
- Mastico, R., see Phillips, D. J. 536(1991)95

- Masucci, J. A., see Caldwell, G. W.
514(1990)377
- Masuda, S., see Nishimura, K. 525(1990)176
- Masuda, Y., see Ryan, J. J. 541(1991)131
- Masuhara, K., see Kinoshita, M. 529(1990)462
- Masuhara, K., see Takahashi, H. 529(1990)347
- Matheson, L. M., see Cummings, J. 528(1990)43
- Mathews, L. A., see Bigelow, J. C. 533(1990)133
- Mathiasson, L., see Lindegård, B. 514(1990)293
- Mathieu, D., see Pommery, J. 526(1990)569
- Mathieu, M., see Pommery, J. 526(1990)569
- Mathis, R., Hubert, P. and Dellacherie, E.
Mild hydrophobic interaction
chromatography: prediction of
chromatographic behaviour by preliminary
analysis by "partition between aqueous
two-phase systems" 538(1991)456
- Mathis, R., see Hubert, P. 539(1991)297
- Matisová, E., see Dimov, N. 549(1991)325
- Matisová, E., see Volmut, J. 527(1990)428
- Matkovics, B., see Kalász, H. 520(1990)287
- Matoušek, M., see Šalamoun, J. 514(1990)179
- Matsubara, K., see Akane, A. 529(1990)155
- Matsubayashi, K., Yoshioka, M. and Tachizawa, H.
Simple method for determination of the
cephalosporin DQ-2556 in biological fluids
by high-performance liquid
chromatography 515(1990)547
- Matsuda, I., see Fujii, J. 530(1990)469
- Matsuda, R., see Hayashi, Y. 513(1990)349
- Matsui, H., see Ohhira, S. 525(1990)105
- Matsui, M., see Kuno, Y. 537(1991)489
- Matsukane, I., see Fujii, J. 530(1990)469
- Matsumiya, T., see Takeda, H. 515(1990)265
- Matsumoto, M., Togashi, H., Yoshioka, M.,
Hirokami, M., Morii, K. and Saito, H.
Simultaneous high-performance liquid
chromatographic determination of
norepinephrine, serotonin, acetylcholine and
their metabolites in the cerebrospinal fluid of
anaesthetized normotensive rats 526(1990)1
- Matsumoto, M., see Takeba, K. 504(1990)441
- Matsumoto, T., see Teramachi, S. 547(1991)429
- Matsumoto, U., Shibusawa, Y. and Yamashita, M.
Surface affinity chromatographic separation
of blood cells. VII. Relationship between
capacity factors of human peripheral blood
cells and the rate of penetration of liquids
into xerogel column packings 504(1990)69
- Matsumura, K., see Enoki, Y. 533(1990)63
- Matsuo, M., see Nishi, H. 513(1990)279
- Matsuo, M., see Nishi, H. 515(1990)233
- Matsuo, M., see Nishi, H. 515(1990)245
- Matsuoka, K., Taoka, M., Isobe, T., Okuyama, T. and Kato, Y.
Automated high-resolution two-dimensional
liquid chromatographic system for the rapid
and sensitive separation of complex peptide
mixtures 515(1990)313
- Matsuoka, M., see Banno, K. 525(1990)255
- Matsushima, Y., see Kanazawa, H.
507(1990)327
- Matsushima, Y., see Kanazawa, H.
537(1991)469
- Matsuura, K., see Kostianen, R. 538(1991)323
- Matsuura, S., see Niwa, T. 533(1990)145
- Matsuzaki, Y., see Takeda, S. 530(1990)447
- Mattiasson, B., see Ghose, S. 547(1991)145
- Mattina, M. J. I.
Determination of chlorophenoxy acids using
high-performance liquid chromatography-
particle beam mass spectrometry
542(1991)385
- Matuszewski, B. K., Constanzer, M. L., Hessey, G. A. and Bayne, W. F.
Development of direct stereoselective and
non-stereoselective assays in biological fluids
for the enantiomers of a thieno[2,3-*b*]thiopyran-2-sulfonamide, a topically
effective carbonic anhydrase inhibitor
526(1990)461
- Matuszewski, B. K., see Kline, W. F.
534(1990)139
- Matysik, G. and Jusiak, L.
Stepwise gradient in thin-layer
chromatography of *Chelidonium* alkaloids
518(1990)273
- Maugein, J., see Fourche, J. 532(1990)209
- Maureaud, T., see Marchese, E. 504(1990)351
- Maurer, H. H.
Identification and differentiation of
barbiturates, other sedative-hypnotics and
their metabolites in urine integrated in a
general screening procedure using
computerized gas chromatography-mass
spectrometry 530(1990)307
- Maurer, H. H.
Chromatography of histamine H₁- and
H₂-receptor blockers in biosamples
531(1990)369
- Maurer, T., Engewald, W. and Steinborn, A.
Enhanced possibilities for identification
using series-coupled capillary gas
chromatographic columns. II. Retention
indices as an identification tool in selectivity
tuning 517(1990)77
- Maurer, T., see Engewald, W. 520(1990)3
- Mauri, P., see Pietta, P. 513(1990)397
- Mauri, P., see Pietta, P. 537(1991)449
- Mauri, P. L., Pietta, P. G. and Pace, M.
Analysis and purification of DNA restriction
fragments by high-performance liquid
chromatography 548(1991)281
- Mauri, P. L., see Pace, M. 539(1991)517

- Mauri, P. L., see Pietta, P. G. 547(1991)439
 Mauri, P. L., see Pietta, P. G. 549(1991)367
 Maurizis, J. C., see Bernard, D. 539(1991)511
 Mavura, W. J., see Urasa, I. T. 547(1991)211
 Maxl, F., see Buck, R. H. 548(1991)335
 Maxwell, R. J., see Kurantz, M. J. 549(1991)387
 Mayer, F., see Kühlkamp, V. 528(1990)267
 Mayer, U., see Mross, K. 530(1990)192
 Mayer, W. J., Long, D. A. and Parikh, D. K.
 Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131
 Mayernik, J. A., Conner, M. K. and Giam, C. S.
 Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407
 Mayers, D. J., see Gorecki, D. K. J. 528(1990)333
 Mayes, A. G., Hubble, J. and Eisenthal, R.
 Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245
 Mayhew, J. W., see Hill, T. L. 512(1990)415
 Maynard, P., see Lowe, C. R. 510(1990)347
 Mayo, D., see Kirschbaum, J. 507(1990)165
 Mazrimas, J. A., see Stacks, P. C. 528(1990)25
 Mazsaroff, I., see Afeyan, N. B. 519(1990)1
 Mazurek, M., see Witkiewicz, Z. 503(1990)293
 Mazzeo, J. R., Krull, I. S. and Kissinger, P. T.
 Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585
 Mazzi, G. and Schinella, M.
 Simple and practical high-performance liquid chromatographic assay of propofol in human blood by phenyl column chromatography with electrochemical detection 528(1990)537
 Mazzolari, E., see Rausa, R. 541(1991)419
 McClintock, S. A., see Di Maso, M. 519(1990)256
 McCloud, T. G., see Schaufelberger, D. E. 538(1991)87
 McClure, T. D., see Nakano, K. 515(1990)537
 McCombs, D. A., see Kirkland, K. M. 545(1991)43
 McCormack, J. J., see Bigelow, J. C. 533(1990)133
 McCoy, M. A. and Liapis, A. I.
 Evaluation of kinetic models for biospecific adsorption and its implications for finite batch and column performance 548(1991)25
 McDowell, R. D., see Doyle, E. 527(1990)67
 McDowell, I., see Bailey, R. G. 542(1991)115
 McErlane, K. M., see Embree, L. 526(1990)439
 McErlane, K. M., see Walisser, J. A. 518(1990)179
 McFarland, V. A., see Choudhury, S. 534(1990)208
 McGarrity, M. J., see Wagner, H. P. 546(1991)119
 McGee, C. M., see Dawson, M. 532(1990)379
 McGuffin, V. L., see Evans, C. E. 503(1990)127
 McGuinness, E. T., see Porter, G. F. 502(1990)69
 McInerney, B. V., see Sharp, P. J. 512(1990)189
 McLaughlin, L. G. and Henion, J. D.
 Determination of dexamethasone in bovine tissues by coupled-column normal-phase high-performance liquid chromatography and capillary gas chromatography-mass spectrometry 529(1990)1
 McLeod, A. N., Auf der Mauer, A. and Wood, S. P.
 High-performance liquid chromatography of insulin. Accessibility and flexibility 502(1990)325
 McMinn, D. G., see Gallagher, M. M. 518(1990)297
 McNair, H. M., see Rasmussen, H. T. 516(1990)223
 McNair, H. M., see Rasmussen, H. T. 517(1990)549
 McNair, H. M., see Wilson, W. H. 540(1991)77
 McPhee, M. D., Atkinson, S. A. and Cole, D. E. C.
 Quantitation of free sulfate and total sulfoesters in human breast milk by ion chromatography 527(1990)41
 McTaggart, A. R., see Marheni 546(1991)221
 Meese, C. O., see Hofmann, U. 508(1990)349
 Mehra, H. C., Davis Huysmans, K. and Frankenberger, Jr., W. T.
 Determination of borate at trace levels in environmental samples by ion-exclusion chromatography 508(1990)265
 Mehra, H. C., see Frankenberger, Jr., W. T. 504(1990)211
 Mehta, M., see Dubin, P. L. 515(1990)37
 Mehvar, R.
 Liquid chromatographic analysis of propafenone enantiomers in human plasma 527(1990)79
 Meier, B., see Hasler, A. 508(1990)236
 Meier, P., see Thormann, W. 545(1991)445
 Meier-Augenstein, W. and Schildknecht, H.
 Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254
 Meineke, I., Hartnack, S. and De Mey, C.
 Determination of mepindolol in plasma after transdermal drug delivery by high-

- performance liquid chromatography with electrochemical detection 526(1990)240
- Meinertz, J. R., see Allen, J. L. 536(1991)217
- Meister, A., see Büniger, H. 520(1990)383
- Meiwes, J., see Fiedler, H.-P. 513(1990)255
- Melger, W. C., see Van Beek, T. A. 543(1991)375
- Meli, A., see D'Aranno, V. 525(1990)234
- Melian, G. P., see Ling, C. F. 519(1990)359
- Melnikova, S. V., see Berezkina, L. G. 520(1990)157
- Meloni, M., see Cabras, P. 505(1990)413
- Meloni, M. L., see Iadarola, P. 512(1990)165
- Ménard, C., see Lawrence, J. F. 550(1991)595
- Mendez, E., see Colilla, F. J. 548(1991)303
- Méndez, E., see Escribano, J. 512(1990)255
- Mendoza Mujica, I., see Contreras de Condado, M. C. 530(1990)164
- Meng, Q. C., Chen, Y. F., Oparil, S. and Cragoe, E. J.
High-performance liquid chromatographic determination of amiloride and its analogues in rat plasma 529(1990)201
- Meng, T., see Zeng, L. 513(1990)247
- Menzio, F. D., see Planques, Y. 539(1991)531
- Mensink, C. K., see Wieling, J. 545(1991)101
- Mentasti, E., see Petrarulo, M. 511(1990)223
- Menzel-Soglowek, S., Geisslinger, G. and Brune, K.
Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295
- Menziani, E., Tosi, B., Bonora, A., Reschiglian, P. and Lodi, G.
Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396
- Merckx, R., see Smolders, E. 514(1990)371
- Meriluoto, J. A. O., Eriksson, J. E., Harada, K.-I., Dahlem, A. M., Sivenon, K. and Carmichael, W. W.
Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390
- Merkle, H.-P., see Langguth, P. 528(1990)55
- Merkus, H. G., see Mori, Y. 515(1990)27
- Mershon, M. M., see Jakubowski, E. M. 528(1990)184
- Mester, T., see Körtvélyessy, G. 507(1990)409
- Meszlényi, G., see Körtvélyessy, G. 507(1990)409
- Metting, H. J., see Coenegracht, P. M. J. 550(1991)397
- Meulemans, A., see Mohler, J. 528(1990)415
- Meyer, B., Kecorius, E., Barter, P., Fidge, N. and Tetaz, T.
Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386
- Meyer, J. C., Spreen, R. C. and Hall, J. E.
Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213
- Meyers, M. B., see Weisz, A. 538(1991)157
- Mhatre, R., Krull, I. S. and Stuting, H. H.
Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21
- Micali, G., Lanuzza, F., Currò, P. and Calabrò, G.
Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317
- Michaelis, H. C.
Determination of pyridostigmine plasma concentrations by high-performance liquid chromatography 534(1990)291
- Michaelis, H. C., Geng, W., Kahl, G. F. and Foth, H.
Sensitive determination of bupivacaine in human plasma by high-performance liquid chromatography 527(1990)201
- Michaelis, H. C., see Frijus-Plessen, N. 534(1990)101
- Michalec, Č., see Bradová, V. 533(1990)297
- Michalkiewicz, A., see Venn, R. F. 525(1990)379
- Michová, J., see Velíšek, J. 502(1990)167
- Midgley, J. M., Andrew, R., Watson, D. G., MacDonald, N., Reid, J. L. and Williams, D. A.
Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259
- Midgley, J. M., see Macfarlane, R. G. 532(1990)1
- Midgley, J. M., see Macfarlane, R. G. 532(1990)13
- Midha, K. K., see Srinivas, N. R. 530(1990)327
- Mientjes, M., see Jackson, P. E. 546(1991)405
- Mignot, A., see Marzo, A. 536(1991)327
- Miguel, J., see Escribano, J. 512(1990)255
- Mihal, K. A., see Krueger, R. J. 543(1991)451
- Mihalić, Z., see Bošnjak, N. 540(1991)430

- Mihara, M., see Shimizu, T. 539(1991)193
Mikawa, Y., see Tanaka, N. 535(1990)13
Mike, J. H., Ramos, B. L. and Zupp, T. A.
Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167
Mikešová, M., see Vejrosta, J. 518(1990)234
Miklean, S., see Karp, S. 504(1990)434
Miksik, I., see Deyl, Z. 516(1990)287
Mikula, J., see Lajdová, I. 528(1990)178
Milbrath, D. S., see Coleman, P. L. 512(1990)345
Millán, A., Grases, J. M. and Grases, F.
Rapid determination of urinary oxalate by high-performance liquid chromatography 529(1990)402
Miller, D. J., see Hawthorne, S. B. 541(1991)185
Miller, L. and Weyker, C.
Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97
Miller, N. T.
Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301
Miller, N. T., see Wang, T. 523(1990)23
Miller, R. L., see Sapers, G. M. 503(1990)431
Miller-Stein, C., see Boppana, V. K. 548(1991)319
Millet, J. L., see Daban Haurou, C. 547(1991)31
Millington, D. S., see Norwood, D. L. 527(1990)289
Milyaev, Y. F., see Balyatinskaya, L. N. 509(1990)107
Minami, M., see Hirata, Y. 503(1990)189
Minchiotti, L., see Iadarola, P. 512(1990)165
Mindlin, L. O., see Dubrova, M. A. 520(1990)169
Mineshos, G., Roumelis, N. and Glavas, S.
Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99
Ming, F. and Howell, J. A.
Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255
Minguillón, C., see Oliveros, L. 543(1991)277
Mink, L. P., see Lochmüller, C. H. 505(1990)119
Minocha, R., see Minocha, S. C. 511(1990)177
Minocha, S. C., Minocha, R. and Robie, C. A.
High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177
Minogawa, E., see Hayakawa, K. 515(1990)459
Miraglia, N., Rindone, B., Folchitto, G., Amicucci, P., Antonelli, G., Lanfranchi, A. and Massa, M.
High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123
Miraglia, N., see Giacobbe, S. 548(1991)289
Misiti, D., see Bruno, G. 504(1990)319
Misiti, D., see Gasparrini, F. 539(1991)25
Mislovičová, D., Gemeiner, P., Stratilová, E. and Horváthová, M.
Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197
Mislovičová, D., Novák, I. and Pašteka, M.
Coated silica and its behaviour in dye-affinity chromatography 543(1991)9
Mislovičová, D., see Horváthová, M. 509(1990)213
Missbichler, A., Ferris, R., Hartter, E., Woloszczuk, W. and Pittner, F.
Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339
Mistrello, G., see Bolzacchini, E. 542(1991)337
Mistrello, G., see Bolzacchini, E. 548(1991)229
Mistry, J. S., Sebt, S. M. and Lazo, J. S.
Separation of bleomycins and their deamidated metabolites by high-performance cation-exchange chromatography 514(1990)86
Mitamura, S., see Ohwa, M. 521(1990)122
Mitchell, H. D., see Williams, R. G. 541(1991)59
Mitchell, J. M., see Paul, B. D. 529(1990)103
Mitchell, Jr., G. E., see Karangwa, E. 532(1990)105
Mitsubishi, Y., see Hamano, T. 541(1991)265
Mitui, H., see Usui, H. 515(1990)375
Miwa, H. and Yamamoto, M.
Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235
Miwa, T., Kuroda, H., Sakashita, S., Asakawa, N. and Miyake, Y.
Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89
Miyabayashi, A., see Andersson, L. I. 516(1990)323
Miyagawa, F., Tsuchida, Y. and Shimizu, T.
Detection of octopamine in an insect ganglion by high-performance liquid

- chromatography–native fluorescence
549(1991)400
- Miyagi, H., see Kamahori, M. 549(1991)101
- Miyahara, H., see Goto, M. 515(1990)213
- Miyake, R., see Kamahori, M. 549(1991)101
- Miyake, Y., see Miwa, T. 511(1990)89
- Miyamoto, K., see Shimamura, M. 526(1990)535
- Miyasaka, K., see Hori, S. 515(1990)67
- Miyasaka, K., see Hori, S. 515(1990)611
- Miyasaka, K., see Yamakawa, Y. 506(1990)319
- Miyasaka, K., see Yamakawa, Y. 515(1990)563
- Miyashita, Y., see Terabe, S. 516(1990)23
- Miyazaki, H., see Eguchi, T. 525(1990)25
- Miyazaki, M., see Hayakawa, K. 515(1990)459
- Miyazaki, T., see Yoshioka, M. 515(1990)205
- Miyazawa, T., see Yamada, T. 515(1990)475
- Mizobe, M., see Tagawa, K. 529(1990)500
- Mizobuchi, N., Ageta, T. and Kodama, H.
Determination of N-monoacetyl-
cystathionine in biological samples using
isotachophoresis 526(1990)550
- Mizoi, Y., see Adachi, J. 538(1991)331
- Mizuguchi, S., see Nakanuma, R. 527(1990)208
- Mizumura, J., see Watari, N. 530(1990)438
- Mizuno, S., see Adachi, Y. 530(1990)39
- Mizutani, T., see Oshima, T. 547(1991)175
- Moats, W. A.
Determination of penicillin G in milk by
high-performance liquid chromatography
with automated liquid chromatographic
cleanup 507(1990)177
- Modin, R., see Fell, A. F. 535(1990)33
- Moeller, N., Dietzel, K., Nuernberg, B.,
Geisslinger, G. and Brune, K.
High-performance liquid chromatographic
determination of pentazocine in plasma
530(1990)200
- Mogi, M., see Harada, M. 527(1990)158
- Mogi, M., see Harada, M. 530(1990)116
- Mogilevsky, W. S., see Odell, G. B.
529(1990)287
- Mohammad, T. and Morrison, H.
Rapid analysis of small molecules in the
presence of DNA by high-performance
liquid chromatography using internal surface
reversed-phase silica 533(1990)195
- Mohler, J., Meulemans, A. and Vulpillat, M.
High-performance liquid chromatographic
determination of the binding of ceftriaxone
to human serum albumin solution and
albumin from diluted human serum
528(1990)415
- Mohseni, R. M. and Hurtubise, R. J.
Reversed-phase chromatographic separation
of selected hydroxyl aromatics with
 β -cyclodextrin as a mobile phase additive
514(1990)19
- Mohseni, R. M. and Hurtubise, R. J.
Changes in the enthalpy and entropy of
hydroxyl aromatics in reversed-phase liquid
chromatography with β -cyclodextrin in the
mobile phase 537(1991)61
- Moir, C. M., see Betts, T. J. 547(1991)335
- Moll, N., see Joly, J.-P. 521(1990)134
- Molnar, I., Gober, K. H. and Christ, B.
Fast development of a robust high-
performance liquid chromatographic method
for *Ginkgo biloba* based on computer
simulation 550(1991)39
- Molnár-Perl, I., Morvai, M., Pintér-Szakács, M.,
Kövágó, Á. and Petróczy, J.
Gas-liquid chromatographic assay of the
components of electrochemically reduced
glucose solutions. Impurities in sorbitol
samples 520(1990)185
- Molnár-Perl, I., see Fábán, V. 520(1990)193
- Molnár-Perl, I., see Morvai, M. 520(1990)201
- Moncollin, V., Gerard, M. and Egly, J.-M.
Purification of the upstream element factor
of the Adenovirus-2 major late promoter
from HeLa and yeast by sequence-specific
DNA affinity chromatography
510(1990)243
- Moncrieff, J.
Simultaneous determination of sparteine and
its 2-dehydro and 5-dehydro metabolites in
urine by high-performance liquid
chromatography with electrochemical
detection 529(1990)194
- Moneam, N. M. A., see Al-Deen, A. N.
512(1990)409
- Monje, M. C., Lattes, A. and Rivière, M.
Separation and determination of Z and E
isomers of dodecyl urocanate 521(1990)148
- Monopoli, A., see Dionisotti, S. 530(1990)458
- Monseur, X., see Motte, J. C. 507(1990)321
- Montaldo, P. G. and Cornaglia-Ferraris, P.
High-performance liquid chromatographic
determination in human plasma of a new
immunomodulatory agent with a peptidyl-
hypoxanthine structure (RM 06)
525(1990)471
- Montaño, A., Sanchez, A. H. and Rejano, L.
Rapid quantitative analysis of headspace
components of green olive brine
521(1990)153
- Montecucchi, P. C., Caldarini, R., Sansó, M.,
Bertolaso, A. M., Rosso di San Secondo, V.
E. M., Piccolo, G. and Sirchia, G.
Purification of immunomodulatory factors in
human peripheral blood leukocytes
512(1990)139
- Monteil, H., see Baldacini, O. 528(1990)357
- Monteil, H., see Jehl, F. 525(1990)225

- Monteil, H., see Jehl, F. 531(1990)509
- Monti, N., see Marzo, A. 507(1990)235
- Monti, N., see Marzo, A. 507(1990)241
- Monti, N., see Marzo, A. 527(1990)247
- Monties, B., see Scalbert, A. 502(1990)107
- Moody, J. P., Humphries, C. A., Allan, S. M. and Paterson, C. R.
Determination of 7-dehydrocholesterol in human skin by high-performance liquid chromatography 530(1990)19
- Moody, R. R., see Taylor, R. B. 527(1990)490
- Moon, M. H., Myers, M. N. and Giddings, J. C.
Evaluation of pinched inlet channel for stopless flow injection in steric field-flow fractionation 517(1990)423
- Moore, B. L., see Hawthorne, S. B. 541(1991)185
- Moore, C. M., Sato, K. and Katsumata, Y.
High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215
- Moore, D., see Hill, D. A. 523(1990)11
- Moore, D. E., see Kazemifard, A. G. 533(1990)125
- Moore, G. L., see Fishman, R. M. 532(1990)55
- Moore, J. M., see Lurie, I. S. 504(1990)391
- Moore, T. J., see Underwood, R. H. 526(1990)180
- Morand, P., see Xie, Y. S. 543(1991)389
- Moreau, J., see Dutot, C. 528(1990)435
- Morelli, A., see Søndergaard, I. 512(1990)115
- Moreno, O., see Nolasco, H. 539(1991)198
- Moretti, F., Birarelli, M., Carducci, C., Pontecorvi, A. and Antonozzi, I.
Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test 511(1990)131
- Morgan, D., Cugier, P., Marello, B., Sarocka, C., Stroz, D. and Plasz, A.
Impurity profiling of clarithromycin using high-performance liquid chromatography with ultraviolet detection 502(1990)351
- Morgan, D. J., see Kazemifard, A. G. 528(1990)274
- Morgan, D. K., see Gorski, R. J. 540(1991)422
- Morgan, E. D., see Huang, H.-P. 519(1990)137
- Morgan, R. L. and Celebuski, J. E.
Large-scale purification of haptened oligonucleotides using high-performance liquid chromatography 536(1991)85
- Mori, H., see Yamauchi, S. 515(1990)305
- Mori, K., see Fukui, Y. 515(1990)85
- Mori, S.
Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411
- Mori, S.
Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473
- Mori, S.
Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375
- Mori, Y., Scarlett, B. and Merkus, H. G.
Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27
- Morii, K., see Matsumoto, M. 526(1990)1
- Morikawa, M., see Takayama, Y. 514(1990)259
- Morimoto, M., see Nishikida, K. 517(1990)209
- Morin-Allory, L., see Herbretau, B. 505(1990)299
- Morin-Allory, L., see Lafosse, M. 505(1990)191
- Moring, S., see Weinberger, R. 516(1990)271
- Morishima, K., Tahara, R. and Horiuchi, M.
Determination of a new calcium antagonist, sesamodil fumarate (SD-3211), and its metabolite in plasma by liquid chromatography with electrochemical detection 527(1990)381
- Morishima, M., see Fukui, S. 541(1991)459
- Morishita, N., see Yamano, Y. 528(1990)199
- Morita, I., Kawamoto, M., Hattori, M., Eguchi, K., Sekiba, K. and Yoshida, H.
Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367
- Morita, I. and Yoshida, H.
Direct injection of highly protein-bound compounds by column-switching high-performance liquid chromatography 527(1990)127
- Morita, Y., see Azekawa, T. 530(1990)47
- Moritz, R. L., see Ward, L. D. 519(1990)199
- Moriya, T., see Sugiyama, K. 515(1990)555
- Morohashi, N., see Yamazaki, Y. 542(1991)129
- Moroux, Y., see Girot, P. 510(1990)213
- Morris, G. R., Walmsley, L. M., Brodie, R. R. and Chasseaud, L. F.
Determination of ximoprofen and its metabolites in human urine by high-performance liquid chromatography with ultra-violet absorbance detection 530(1990)377
- Morris, M. D., see Chen, C.-Y. 540(1991)355
- Morris, M. D., see Treado, P. J. 511(1990)341

- Morris, M. E. and Hansel, S. B.
High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285
- Morrison, H., see Mohammad, T. 533(1990)195
- Morrison, H. D., see Aebersold, R. 516(1990)79
- Morrissey, M. A., Siems, W. F. and Hill, Jr., H. H.
Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215
- Mortimer, R. D.
Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427
- Morvai, M. and Molnár-Perl, I.
Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201
- Morvai, M., see Molnár-Perl, I. 520(1990)185
- Mosbach, K., see Andersson, L. I. 513(1990)167
- Mosbach, K., see Andersson, L. I. 516(1990)313
- Mosbach, K., see Andersson, L. I. 516(1990)323
- Moseley, M. A., Deterding, L. J., Tomer, K. B. and Jorgenson, J. W.
Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167
- Moseman, R., see Górski, T. 509(1990)383
- Motellier, S. and Wainer, I. W.
Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365
- Mothershead, II, R. F., see Hale, R. C. 539(1991)149
- Mothes, S., see Popp, P. 520(1990)97
- Motohashi, M., see Yamashita, K. 527(1990)103
- Motohashi, M., see Yamashita, K. 527(1990)196
- Motorin, Y. A., see Wolfson, A. D. 503(1990)277
- Motte, J. C., Van Huynh, N., Declaire, M., Wattiau, P., Walravens, J. and Monseur, X.
Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321
- Motz, M., see Soutschek, E. 521(1990)267
- Mou, S.
Environmental applications of ion chromatography in China 546(1991)317
- Mou, S., Sun, Q. and Lu, D.
Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289
- Mount, D. L., Patchen, L. C. and Churchill, F. C.
Determination of mefloquine in blood by supercritical fluid chromatography with electron-capture detection 527(1990)51
- Mouret, J.-F., see Polverelli, M. 539(1991)373
- Moussa, A. M., see Mahmoud, M. E. 549(1991)416
- Moy, M., see Paul, B. D. 529(1990)103
- Moyret, C., see Bernard, D. 539(1991)511
- Mross, K., Mayer, U., Hamm, K. and Hossfeld, D. K.
High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192
- Much, H., see Gorshkov, A. V. 523(1990)91
- Mucha, I., Paluska-Ferencz, I. and Tóth, G.
Separation of ¹²⁵I-labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid 543(1991)307
- Muck, S., see Marzo, A. 507(1990)241
- Muck, S., see Marzo, A. 527(1990)247
- Muenzer, J., see Buchanan, D. N. 534(1990)1
- Mühleck, U., see Lai, G. 540(1991)217
- Muñoz Blanco, M. T., Alvaro Cebrian, J., Olde, B. and Johansson, G.
Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79
- Mulholland, F., see Carvajal, M. 511(1990)379
- Mulholland, M., Walker, N., Maris, F., Hindriks, H., Buydens, L., Blaffert, T. and Schoenmakers, P. J.
Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257
- Muller, D., see Algiman, E. 510(1990)165
- Muller, D., see Ellouali, M. 548(1991)255
- Muller, D., see Jacquot-Dourges, M. A. 510(1990)141
- Muller, D., see Jacquot-Dourges, M. A. 539(1991)417
- Muller, D., see Khamlichi, S. 510(1990)123
- Muller, D., see Sinniger, V. 539(1991)289
- Muller, D., see Zhou, F. L. 510(1990)71
- Müller, G., see Trüding, U. 535(1990)111
- Müller, R., see Schwidop, W.-D. 520(1990)325
- Müller, R. E., see Carter, A. J. 527(1990)31
- Müller, W.
New ion exchangers for the chromatography of biopolymers 510(1990)133
- Müller, W., see Huber, R. 529(1990)389
- Müller, W., see Ilg, M. 517(1990)263
- Müller, W., see Janzen, R. 522(1990)77

- Müller-Schulte, D.
 Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115
- Müller-Schulte, D., Manjini, S. and Vijayalakshmi, M. A.
 Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307
- Mulvana, D. E., Kaul, S., Dandekar, K. A. and Pittman, K. A.
 Determination of belfosdil, a new calcium channel blocker, in human plasma by capillary gas chromatography with nitrogen-phosphorus detection 527(1990)343
- Munder, A., Chesler, S. N. and Wise, S. A.
 Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63
- Munera, M. E., Borger, F. R., Flanigan, E. and Parikh, D. K.
 Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123
- Munich, J., see Uchytíl, B. 509(1990)111
- Munro, Z., see Burger, B. V. 518(1990)207
- Münscher, G., see Hocke, G. 526(1990)203
- Munslow, W. D., see Donnelly, J. R. 540(1991)293
- Mur, E., see Baier, G. 525(1990)319
- Mura, P., see Decourt, J. P. 527(1990)214
- Murakita, H. and Gotoh, T.
o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527
- Muralidharan, S. and Freiser, H.
 Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370
- Muramatsu, Y., see Tsuda, T. 515(1990)645
- Muranishi, S., see Takada, K. 530(1990)212
- Murata, H., see Oka, H. 538(1991)149
- Murata, T., see Iida, J. 515(1990)503
- Murawski, D.
 Ion chromatography for the analysis of household consumer products 546(1991)351
- Muret, P., see Makki, S. 539(1991)443
- Murgita, R. A., see Van Oers, N. S. C. 525(1990)59
- Murkitt, G. S., see Doyle, E. 527(1990)67
- Murofushi, N., see Lin, J.-T. 543(1991)471
- Murphy, J. A., see Camilleri, P. 508(1990)208
- Murray, J. C., see Stratford, M. R. L. 526(1990)383
- Musil, S., see Svoboda, M. 520(1990)209
- Muskiet, F. A. J., see Van den Berg, G. A. 550(1991)239
- Mussini, E., see Colombo, L. 530(1990)141
- Musson, D. G., see Titus, D. C. 534(1990)87
- Muszyńska, G., see Dobrowolska, G. 541(1991)333
- Muszyńska, G., see Lubińska, V. K. 522(1990)171
- Mutharasan, R., see Eickhoff, W. M. 536(1991)255
- Myers, M. N., see Moon, M. H. 517(1990)423

N

- Naaranlahti, T., see Ylinen, M. 505(1990)429
- Nabet, P., see Straczek, J. 532(1990)237
- Nabet, P., see Straczek, J. 533(1990)35
- Nabivach, V. M., see Buryan, P. 509(1990)3
- Nagai, K., see Ukai, S. 513(1990)338
- Nagai, T. and Kamiyama, S.
 Assay of the optical isomers of methamphetamine and amphetamine in rat urine using high-performance liquid chromatography with chiral cellulose-based columns 525(1990)203
- Nagano, R., see Enoki, Y. 533(1990)63
- Naganuma, H. and Kawahara, Y.
 High-performance liquid chromatographic determination of loxoprofen and its diastereomeric alcohol metabolites in biological fluids by fluorescence labelling with 4-bromomethyl-6,7-methylenedioxy coumarin 530(1990)387
- Naganuma, H., Kondo, J.-I. and Kawahara, Y.
 Enantiospecific assay for mammalian carbonyl reductase by liquid chromatography with fluorescence detection 532(1990)65
- Nagase, S., see Watanabe, S. 518(1990)264
- Nagashima, H., see Jinno, K. 517(1990)193
- Nagashima, K., see Qian, X.-X. 515(1990)257
- Nagata, T., see Imamura, T. 534(1990)253
- Nagata, Y., see Kanazawa, H. 507(1990)327
- Nagata, Y., see Kanazawa, H. 537(1991)469
- Nagatsu, T., see Hirata, Y. 503(1990)189
- Nagatsu, T., see Niwa, T. 533(1990)145
- Nagel, G. T., see Dikkeschei, L. D. 529(1990)145

- Nagel, G. T., see Van den Berg, G. A. 550(1991)239
- Nageswara Sarma, P., see Husain, S. 513(1990)83
- Nageswara Sarma, P., see Husain, S. 540(1991)331
- Nagy, L., Biro, E. and Balla, J.
Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213
- Naikwadi, K. P., Karasek, F. W. and Hatano, H.
Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281
- Naito, K., Sagara, T. and Takei, S.
Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25
- Naito, T., see Adachi, J. 538(1991)331
- Najarian, D. R., see Cohen, A. S. 516(1990)49
- Nakahashi, H., see Mabuchi, H. 529(1990)424
- Nakai, A., see Kikawa, Y. 532(1990)387
- Nakai, H., see Yamano, Y. 528(1990)199
- Nakajima, K., Yasuda, T. and Nakazawa, H.
High-performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation 502(1990)379
- Nakajima, T., see Kawahara, M. 515(1990)149
- Nakajima, T., see Lee, Y. M. 515(1990)467
- Nakamura, H. and Okuyama, T.
Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377
- Nakamura, H., see Kawahara, M. 515(1990)149
- Nakamura, H., see Kodama, H. 527(1990)279
- Nakamura, H., see Konishi, T. 515(1990)279
- Nakamura, H., see Kubota, K. 533(1990)255
- Nakamura, H., see Kudoh, S. 515(1990)597
- Nakamura, H., see Lee, Y. M. 515(1990)467
- Nakamura, H., see Seta, K. 515(1990)585
- Nakamura, K., Hashimoto, T., Kato, Y., Shimura, K. and Kasai, K.-I.
Tresyl-activated support for high-performance affinity chromatography 510(1990)101
- Nakamura, K., Hashimoto, T., Kato, Y., Shimura, K. and Kasai, K.-I.
Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367
- Nakamura, K., see Kakita, H. 543(1991)315
- Nakamura, K., see Yamamoto, H. 543(1991)201
- Nakamura, T., see Nakanuma, R. 527(1990)208
- Nakanishi, Y., see Kojima, K. 525(1990)210
- Nakano, K., Yasaka, T., Schram, K. H., Reimer, M. L. J., McClure, T. D., Nakao, T. and Yamamoto, H.
Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537
- Nakano, K., see Hoshino, H. 515(1990)603
- Nakano, M., see Fujii, J. 530(1990)469
- Nakano, M., see Okamoto, Y. 513(1990)375
- Nakano, M., see Yoshioka, M. 515(1990)205
- Nakanuma, R., Watanabe, K., Yamashita, K., Mizuguchi, S., Hashimoto, Y., Nakamura, T. and Umuzawa, H.
High-performance liquid chromatographic determination of deoxyspergualin in dog plasma with ultraviolet detection 527(1990)208
- Nakao, T., see Nakano, K. 515(1990)537
- Nakaoka, M. and Hokusui, H.
Measurement of the formation of a thioglucuronide, a metabolite of malotilate, in rat hepatic microsomes by high-performance liquid chromatography 526(1990)254
- Nakashima, K., Suetsugu, K., Akiyama, S. and Yoshida, M.
High-performance liquid chromatography-chemiluminescence determination of methamphetamine in human serum using *N*-(4-aminobutyl)-*N*-ethylisoluminol as a chemiluminogen 530(1990)154
- Nakatani, M., see Yamamoto, H. 543(1991)201
- Nakatani, S., see Kato, Y. 502(1990)416
- Nakatani, S., see Kato, Y. 513(1990)384
- Nakayama, F., see Eguchi, T. 525(1990)25
- Nakazato, K., see Suzuki, K. 535(1990)173
- Nakazawa, H., see Harada, K.-I. 538(1991)203
- Nakazawa, H., see Horie, M. 502(1990)371
- Nakazawa, H., see Horie, M. 538(1991)484
- Nakazawa, H., see Ikai, Y. 541(1991)393
- Nakazawa, H., see Nakajima, K. 502(1990)379
- Nakazawa, H., see Oka, H. 538(1991)149
- Nakazawa, H., see Oka, H. 538(1991)213
- Nakazawa, H., see Okamoto, M. 504(1990)445
- Nakazawa, H., see Okamoto, M. 508(1990)217
- Nakazawa, H., see Saito, K. 508(1990)141
- Nakazawa, H., see Takeba, K. 504(1990)441
- Nakura, M., see Echizen, H. 526(1990)296
- Nam, S. H., see Urasa, I. T. 547(1991)211
- Nambara, T., see Iida, T. 537(1991)345

- Nambara, T., see Ohkubo, T. 527(1990)441
- Namieśnik, J., see Konieczka, P. 540(1991)449
- Nanni, E. J., Lovette, M. E., Hicks, R. D., Fowler, K. W. and Borgerding, M. F. Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365
- Naoi, M., see Hirata, Y. 503(1990)189
- Naoi, M., see Niwa, T. 533(1990)145
- Naora, K., Katagiri, Y., Ichikawa, N., Hayashibara, M. and Iwamoto, K. Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186
- Naples, J. O., see Strasburg, R. F. 547(1991)11
- Naqvi, A. A., see Mandal, S. 547(1991)468
- Narayanan, S. R., Knochs, Jr., S. and Crane, L. J. Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93
- Nardi, G., Cipollaro, M. and Loguercio, C. Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122
- Nardillo, A. M., see Castells, R. C. 504(1990)45
- Narsimha, R., see Husain, S. 513(1990)83
- Narsimha, R., see Husain, S. 540(1991)331
- Naruto, S., see Kurono, M. 532(1990)175
- Nashabeh, W. and El Rassi, Z. Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57
- Nashabeh, W. and El Rassi, Z. Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Nasner, A., see Lendrath, G. 502(1990)385
- Nasser, B., see Adami, P. 539(1991)279
- Naumann, M., see Reuter, R. 510(1990)189
- Nava, D., see Marzo, A. 536(1991)327
- Navalesi, R., see Benzi, L. 534(1990)37
- Navarro, P., see Vialle, J. 549(1991)159
- Navvab, M., see Dunn, L. 548(1991)165
- Ndiomu, D. P. and Simpson, C. F. Retention studies in supercritical fluid chromatography 505(1990)161
- Neča, J. and Vespalec, R. Filled tubes as generation elements in electrokinetic detection in liquid chromatography 514(1990)161
- Neča, J., see Vespalec, R. 541(1991)257
- Nechvátal, M., see Šalamoun, J. 514(1990)179
- Neely, F. L. and Emerson, C. S. Determination of sterigmatocystin in fermentation broths by reversed-phase high-performance liquid chromatography using post-column fluorescence enhancement 523(1990)305
- Neely, F. L. and Parks, R. J. High-performance liquid chromatographic determination of mycophenolic acid in fermentation broth 540(1991)383
- Neicheva, A., Kovacheva, E. and Karageorgiev, D. Simultaneous determination of insecticides, acaricides and fungicides by thin-layer chromatography 509(1990)263
- Neicheva, A., see Kovacheva, E. 509(1990)79
- Neilson, A. H., see Remberger, M. 508(1990)159
- Neilson, K. L., see Kirkland, K. M. 545(1991)43
- Nero, V. P., see Chen, Jr., E. N. 549(1991)247
- Nesterova, I., Rekhter, B., Roshka, G. and Witkiewicz, Z. Liquid crystals for the gas chromatographic determination of the stereochemistry of insect sex pheromones 537(1991)482
- Nesterova, I. P. Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69
- Neue, U. D., see Berdichevsky, A. L. 535(1990)189
- Nevens, J. R., see Domen, P. L. 510(1990)293
- Nevjagskaya, I. A., see Adamia, T. V. 540(1991)441
- Newburger, J. and Guiochon, G. Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63
- Newcomb, S. A., Culling-Berglund, A. J. and Davis, T. P. Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47
- Newman, R. A., see Engineer, M. S. 527(1990)473
- Nezu, Y., see Asakawa, N. 541(1991)231
- Ng, C. L., see Ong, C. P. 516(1990)263
- Ng, C. L., see Ong, C. P. 547(1991)419
- Ng, L.-K. and Hupé, M. Gas chromatographic method for the assay of aliphatic and aromatic sulphonates as their *tert*.-butyldimethylsilyl derivatives 513(1990)61
- Ngan, F. and Ikesaki, T. Determination of nine acidic herbicides in water and soil by gas chromatography using an electron-capture detector 537(1991)385

- Ngo, S. H., see Alexander, R. 538(1991)424
Ngo, T. T. and Khatter, N.
Chemistry and preparation of affinity ligands
useful in immunoglobulin isolation and
serum protein separation 510(1990)281
Nguyen, C., see Girot, P. 510(1990)213
Nguyen, C., see Hulak, I. 539(1991)355
Nguyen, N. T., see Jones, H. K. 504(1990)1
Nguyet, T. T., see Vialle, J. 549(1991)159
Nicchia, M., see Castello, G. 521(1990)99
Nichols, A., see Ford, S. H. 536(1991)185
Nichols, A., see Ford, S. H. 537(1991)235
Nicholson, G., see Lai, G. 540(1991)217
Nickel, E., see Henke, W. 527(1990)498
Nicolas, J.-P., see Djalali, M. 529(1990)81
Nicolas, J.-P., see Frémont, S. 526(1990)186
Nicolli-Griffith, D., Zamboni, R., Rasmussen, J.
B., Ethier, D., Charleson, S. and Tagari, P.
BIO-Fully Automated Sample Treatment
high-performance liquid chromatography
and radioimmunoassay for leukotriene E₄ in
human urine from asthmatics 526(1990)341
Nicot, G., Lachatre, G., Marquet, P., Bonnaud,
F., Vallette, J. P. and Rocca, J.-L.
High-performance liquid chromatographic
determination of navelbine in human plasma
and urine 528(1990)258
Niebch, G., Borbe, H. O. and Besenfelder, E.
High-performance liquid chromatography of
naftopidil, a novel antihypertensive drug,
and two metabolites in human plasma
534(1990)247
Nielen, M. W. F.
Impact of experimental parameters on the
resolution of positional isomers of
aminobenzoic acid in capillary zone
electrophoresis 542(1991)173
Nielsen, J. H., see Linde, S. 530(1990)29
Nielsen, R. G. and Rickard, E. C.
Method optimization in capillary zone
electrophoretic analysis of hGH tryptic
digest fragments 516(1990)99
Nielsen, R. G., Rickard, E. C., Santa, P. F.,
Sharknas, D. A. and Sittampalam, G. S.
Separation of antibody-antigen complexes
by capillary zone electrophoresis, isoelectric
focusing and high-performance size-
exclusion chromatography 539(1991)177
Niessen, W. M. A., see Kokkonen, P.
511(1990)35
Niessen, W. M. A., see Reinhoud, N. J.
516(1990)147
Niethammer, D., see Bruchelt, G. 545(1991)407
Nihira, M., see Hayashida, M. 506(1990)133
Niikura, M., see Kawasaki, T. 515(1990)91
Niikura, M., see Kawasaki, T. 515(1990)125
Nikitin, Y. S., see Lanin, S. N. 520(1990)315
Nikitin, Y. S., see Lanin, S. N. 537(1991)33
Nikitina, M. A., see Dubrova, M. A.
520(1990)169
Nill, K., see Nusser, E. 528(1990)163
Nilsson, I., see Gustafsson, S. 506(1990)75
Nilsson, L. B.
Regulation of peak compression effects for
substituted benzamides in reversed-phase
liquid chromatography 506(1990)253
Nilsson, L. B.
Determination of remoxipride in plasma and
urine by reversed-phase column liquid
chromatography 526(1990)139
Nimura, N., see Iwaki, K. 504(1990)359
Ninomiya, I., see Adachi, J. 538(1991)331
Ninomiya, S., see Ishida, K. 539(1991)169
Nishi, H., Fujimura, N., Yamaguchi, H. and
Fukuyama, T.
Reversed-phase high-performance liquid
chromatographic separation of the
enantiomers of trimetoquinol hydrochloride
by derivatization with 2,3,4,6-tetra-O-acetyl-
β-D-glucopyranosyl isothiocyanate and
application to the optical purity testing of
drugs 539(1991)71
Nishi, H., Fukuyama, T. and Matsuo, M.
Separation and determination of aspoxicillin
in human plasma by micellar electrokinetic
chromatography with direct sample
injection 515(1990)245
Nishi, H., Fukuyama, T., Matsuo, M. and
Terabe, S.
Separation and determination of lipophilic
corticosteroids and benzothiazepin analogues
by micellar electrokinetic chromatography
using bile salts 513(1990)279
Nishi, H., Fukuyama, T., Matsuo, M. and
Terabe, S.
Chiral separation of diltiazem, trimetoquinol
and related compounds by micellar
electrokinetic chromatography with bile
salts 515(1990)233
Nishi, H., see Terabe, S. 545(1991)359
Nishijima, M. K., see Hosotsubo, K. K.
529(1990)223
Nishikawa, A. H., see Patel, A. 510(1990)83
Nishikida, K., Housaki, T., Morimoto, M. and
Kinoshita, T.
Gel permeation chromatography-Fourier
transform infrared study of some synthetic
polymers. II. Instrumentation for the
characterization of polyethylene
517(1990)209
Nishimura, K., Harada, K., Masuda, S. and
Sugii, A.
High-performance liquid chromatography of
serum albumins on an N-methylpyridinium
polymer-based column 525(1990)176

- Nishimura, K., see Tanaka, S. 540(1991)475
 Nishimura, Y., see Haginaka, J. 532(1990)87
 Nishioka, R., Harimoto, T., Umeda, I., Yamamoto, S. and Ōi, N.
 Improved procedure for determination of indomethacin in plasma by capillary gas chromatography after solid-phase extraction 526(1990)210
 Nishiyama, F., see Hirokawa, T. 513(1990)297
 Nishiyama, F., see Hirokawa, T. 538(1991)413
 Nishiyama, M., see Takada, K. 530(1990)212
 Nishizawa, Y., see Usui, H. 515(1990)375
 Nisi, G., see Segatti, M. P. 536(1991)319
 Nisticò, G., see Corasaniti, M. T. 527(1990)189
 Nitz, S., Kollmannsberger, H., Albrecht, M. and Drawert, F.
 Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516
 Nitz, S., see Fischer, N. 538(1991)193
 Niu, C.-Q. and He, L.-Y.
 Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193
 Niv, A., see Goldstein, L. 510(1990)23
 Niwa, T., Yoshizumi, H., Tatematsu, A., Matsuura, S., Yoshida, M., Kawachi, M., Naoi, M. and Nagatsu, T.
 Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145
 Nobuhara, K., see Okamoto, M. 515(1990)43
 Noda, J., see Suzuki, S. 508(1990)225
 Noda, K., see Tagawa, K. 529(1990)500
 Noda, M., see Imamura, T. 534(1990)253
 Noguchi, K., Yanagihara, Y., Kasai, M. and Hirata, N.
 Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145
 Noguchi, K., see Ohtani, T. 515(1990)175
 Noguchi, K., see Seki, T. 515(1990)435
 Noguchi, K., see Uchida, T. 506(1990)327
 Nohta, H., see Umegae, Y. 515(1990)495
 Nojima, K., see Kostianen, R. 538(1991)323
 Nokelainen, S., see Kostianen, R. 513(1990)31
 Nolasco, H. and Moreno, O.
 Rapid detection and quantification of peroxidase activity in liquid chromatography 539(1991)198
 Nomura, M., see Yamamoto, S. 512(1990)77
 Nomura, M., see Yamamoto, S. 512(1990)89
 Nonomura, S., see Yamada, T. 515(1990)475
 Nooyen, W. J., see Van Tellingen, O. 529(1990)135
 Nooyen, W. J., see Van Tellingen, O. 529(1990)329
 Norin, T., see Lindström, M. 513(1990)315
 Norlander, B., see Torfgård, K. 534(1990)196
 Norli, H. R., see Greibrokk, T. 505(1990)283
 Noroski, J., see Kirschbaum, J. 507(1990)165
 Norwood, D. L., Bus, C. A. and Millington, D. S.
 Combined high-performance liquid chromatographic-continuous-flow fast atom bombardment mass spectrometric analysis of acylcoenzyme A compounds 527(1990)289
 Norwood, P. C., see Huber, R. 529(1990)389
 Nose, N., see Horie, M. 502(1990)371
 Nose, N., see Horie, M. 538(1991)484
 Nose, N., see Saito, K. 508(1990)141
 Nouveau, J., see Lacroix, C. 525(1990)240
 Novák, I., see Belliaro, F. 506(1990)371
 Novák, I., see Mislovičová, D. 543(1991)9
 Novák, J., see Linhart, I. 530(1990)283
 Novick, D., Engelmann, H., Wallach, D., Leitner, O., Revel, M. and Rubinstein, M.
 Purification of soluble cytokine receptors from normal human urine by ligand-affinity and immunoaffinity chromatography 510(1990)331
 Novotny, M., see Liu, J. 519(1990)189
 Novotny, M., see Luffer, D. R. 505(1990)79
 Novotny, M., see Luffer, D. R. 517(1990)477
 Nowak, G.
 Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417
 Nowicky, W., see Han, L.-F. 543(1991)123
 Nowotny, A., see Somlyo, B. 525(1990)329
 Nozaki, O. and Ohba, Y.
 Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621
 Nuernberg, B., see Moeller, N. 530(1990)200
 Nugent, K. D. and Dolan, J. W.
 Systematic approach to the isolation, correction, and prevention of liquid chromatographic column problems 544(1991)3
 Numajiri, Y., see Kodama, H. 527(1990)279
 Nunn, M., see Renlund, S. 512(1990)325
 Nursten, H. E., see Bailey, R. G. 542(1991)115
 Nusser, E., Nill, K. and Breyer-Pfaff, U.
 Enantiomer analysis of *E*- and *Z*-10-hydroxyamitriptyline in human urine 528(1990)163

- Nyberg, F., Lyrenäs, S. and Danielsson, Å.
Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311
- Nyberg, G., see Svensson, C. 529(1990)229
- Nyiredy, S., Botz, L. and Sticher, O.
Forced-flow multi-phase liquid extraction, a separation method based on relative and absolute counter-current distribution. I. Description of the method and basic possibilities 523(1990)43
- O**
- Ochocka, R. J., Sybilska, D., Asztemborska, M., Kowalczyk, J. and Goronowicz, J.
Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171
- O'Connell, J. P., see Deistung, J. 539(1991)485
- O'Connor, K., see Dion, D. M. 535(1990)127
- O'Connor, P. F., see Kennedy, E. R. 522(1990)303
- Oda, Y., Asakawa, N., Kajima, T., Yoshida, Y. and Sato, T.
On-line determination and resolution of verapamil enantiomers by high-performance liquid chromatography with column switching 541(1991)411
- Oda, Y., see Kakita, H. 543(1991)315
- Odell, G. B., Mogilevsky, W. S. and Gourley, G. R.
High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287
- Odermatt, A., see Caslavská, J. 545(1991)315
- Odin, F., see Polverelli, M. 539(1991)373
- O'Donovan, G. A., see Bailey, A. J. 512(1990)403
- O'Donovan, G. A., see Dutta, I. 536(1991)237
- O'Donovan, G. A., see Dutta, P. K. 512(1990)395
- Oefner, P., Häfele, R., Bartsch, G. and Bonn, G.
Isotachophoretic separation of organic acids in biological fluids 516(1990)251
- Ogata, H., see Kinoshita, M. 529(1990)462
- Ogata, H., see Takahashi, H. 529(1990)347
- Ogawa, S., see Fukui, S. 541(1991)459
- Ogawa, T., see Hasunuma, R. 537(1991)397
- Ogawa, T., see Yamano, Y. 528(1990)199
- Ogino, H., Aomura, Y. and Hobo, T.
Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C₁, C₂ and C₃ hydrocarbons 541(1991)75
- Oguchi, H., see Kato, N. 549(1991)133
- Oguchi, R., see Wylie, P. L. 517(1990)131
- Ogura, T., see Yamagami, C. 514(1990)123
- O'Hara, M., see Patel, A. 510(1990)83
- Ohara, T., see Shimamura, M. 526(1990)535
- Ohashi, H., Uehara, N. and Shijo, Y.
Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225
- Ohba, Y., see Nozaki, O. 515(1990)621
- Ohc, H., see Asakawa, N. 541(1991)231
- Ohga, Y., see Enoki, Y. 533(1990)63
- Oh-Hashi, M., see Takada, K. 530(1990)212
- Ohhira, S. and Matsui, H.
Simultaneous determination of butyltin and phenyltin compounds in oysters by capillary gas chromatography 525(1990)105
- Ohki, H., see Kamahori, M. 549(1991)101
- Ohkubo, A., see Sakuma, I. 506(1990)223
- Ohkubo, T. and Nambara, T.
Determination of mitomycin C in serum by high-performance liquid chromatography with dual-electrode coulometric detection 527(1990)441
- Ohkura, Y., see Chao, W.-F. 526(1990)77
- Ohkura, Y., see Umegae, Y. 515(1990)495
- Ohl, J., see Estel, D. 520(1990)175
- Ohms, J. I., see Huang, X. 516(1990)233
- Ohms, J. I., see Paulus, A. 507(1990)113
- Ohnishi, K., see Suemitsu, R. 503(1990)282
- Ohnishi, K., see Suemitsu, R. 539(1991)211
- Ohno, T., see Kinoshita, M. 529(1990)462
- Ohta, T., Inoue, T. and Takitani, S.
Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59
- Ohtaka, H., see Tanaka, S. 521(1990)158
- Ohtaki, N., see Inoue, S. 515(1990)193
- Ohtani, S., see Hori, S. 515(1990)67
- Ohtani, S., see Hori, S. 515(1990)611

- Ohtani, T., Tamura, Y., Kasai, M., Uchida, T., Yanagihara, Y. and Noguchi, K.
Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175
- Ohtani, T., see Uchida, T. 506(1990)327
- Ohtani-Senuma, K., see Hori, S. 515(1990)67
- Ohtsu, Y., see Tanaka, N. 535(1990)13
- Ohwa, M., Akiyoshi, M. and Mitamura, S.
Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122
- Ôi, N., Kitahara, H. and Kira, R.
Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441
- Ôi, N., Kitahara, H. and Kira, R.
Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213
- Ôi, N., see Nishioka, R. 526(1990)210
- Oi, T., see Kawada, K. 538(1991)355
- Oikawa, K., see Saga, Y. 513(1990)379
- Oishi, R., see Gomita, Y. 528(1990)509
- Oizumi, J. and Hayakawa, K.
High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55
- Oji, Y., see Hamano, T. 541(1991)265
- Oka, F., Oka, H. and Ito, Y.
Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99
- Oka, H., Harada, K.-I., Suzuki, M., Nakazawa, H. and Ito, Y.
Foam counter-current chromatography of bacitracin. II. Continuous removal and concentration of hydrophobic components with nitrogen gas and distilled water free of surfactants or other additives 538(1991)213
- Oka, H., Ikai, Y., Kawamura, N., Hayakawa, J., Yamada, M., Harada, K.-I., Murata, H., Suzuki, M., Nakazawa, H., Suzuki, S., Sakita, T., Fujita, M., Maeda, Y. and Ito, Y.
Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149
- Oka, H., see Harada, K.-I. 538(1991)203
- Oka, H., see Ikai, Y. 541(1991)393
- Oka, H., see Oka, F. 538(1991)99
- Oka, K., see Kouno, Y. 515(1990)321
- Okada, T.
Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341
- Okada, T., see Hosotsubo, K. K. 529(1990)223
- Okafo, G., see Camilleri, P. 541(1991)489
- Okafo, G. N. and Camilleri, P.
Capillary electrophoretic separation in both H₂O- and ²H₂O-based electrolytes can provide more information on tryptic digests 547(1991)551
- Okafo, G. N. and Camilleri, P.
The effect of ²H₂O and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404
- Okamoto, I., see Fujii, Y. 508(1990)241
- Okamoto, M. and Nakazawa, H.
Direct liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445
- Okamoto, M. and Nakazawa, H.
Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217
- Okamoto, M., Yoshida, I., Utsumi, M., Nobuhara, K. and Jinno, K.
Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43
- Okamoto, Y., Aburatani, R., Hatada, K., Honda, M., Inotsume, N. and Nakano, M.
Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375
- Okamoto, Y., Sakamoto, N., Yamamoto, M. and Kumamaru, T.
Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221
- Okamura, N., Kobayashi, K., Yagi, A., Kitazawa, T. and Shimomura, K.
High-performance liquid chromatography of abietane-type compounds 542(1991)317
- Okazaki, T., see Kataoka, H. 528(1990)172
- Okhotnikov, B. P., see Gavrichev, V. S. 509(1990)59
- Okigaki, T., see Kanemitsu, F. 526(1990)423
- Okochi, T., see Ito, H. 526(1990)397
- Okumura, N., see Iwaki, K. 504(1990)359
- Okutani, R., see DeBros, F. 529(1990)449
- Okuyama, T., see Matsuoka, K. 515(1990)313
- Okuyama, T., see Nakamura, H. 509(1990)377
- Okuyama, T., see Seta, K. 515(1990)585
- Okuyama, T., see Tomita, M. 515(1990)391
- Okuyama, T., see Tomita, M. 526(1990)174
- Okuyama, T., see Usui, H. 515(1990)375

- Okuyama, T., see Yamakawa, Y. 506(1990)319
 Okuyama, T., see Yamakawa, Y. 515(1990)563
 Okuyama, T., see Yamamoto, H. 515(1990)659
 Olde, B., see Muiño Blanco, M. T. 547(1991)79
 Oleszek, W., Jurzysta, M., Price, K. R. and Fenwick, G. R.
 High-performance liquid chromatography of alfalfa root saponins 519(1990)109
 Oliveros, L., Minguillón, C., Desmazières, B. and Desbène, P.-L.
 Preparation and evaluation of chiral high-performance liquid chromatographic stationary phases of mixed character (π -donor and π -acceptor) for the resolution of racemic compounds 543(1991)277
 Oliw, E. H.
 Resolution of enantiomers of 19-hydroxyeicosatetraenoate and 18-hydroxyeicosatetraenoate by chiral phase high-performance liquid chromatography of naphthoyl ester derivatives 526(1990)525
 Olsen, G. D., see Sandberg, J. A. 525(1990)113
 Olsen, I., see Brondz, I. 533(1990)152
 Olson, J. A., see Furr, H. C. 527(1990)406
 Olsson, B., see Kågedal, B. 527(1990)21
 Olsson, M., Sander, L. C. and Wise, S. A.
 Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73
 Olsson, U., Kaufmann, P. and Herslöf, B. G.
 Multivariate optimization of a gas-liquid chromatographic analysis of fatty acid methyl esters of blackcurrant seed oil 505(1990)385
 Olsson, U., see Beving, H. 532(1990)45
 Olucha, J. C., see Marcé, R. M. 542(1991)277
 Onaka, A., see Kato, Y. 513(1990)384
 Ong, C. P., Lee, H. K. and Li, S. F. Y.
 Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509
 Ong, C. P., Lee, H. K. and Li, S. F. Y.
 Separation of phthalates by micellar electrokinetic chromatography 542(1991)473
 Ong, C. P., Ng, C. L., Chong, N. C., Lee, H. K. and Li, S. F. Y.
 Retention of eleven priority phenols using micellar electrokinetic chromatography 516(1990)263
 Ong, C. P., Ng, C. L., Lee, H. K. and Li, S. F. Y.
 Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419
 Ong, C. P., see Khan, M. R. 513(1990)360
 Ong, C. P., see Li, S. F. Y. 506(1990)245
 Ong, C. P., see Li, S. F. Y. 515(1990)515
 Ono, H., see Takeda, S. 530(1990)447
 Ono, M., see Iida, J. 515(1990)503
 Onogi, Y., see Fukuda, T. 511(1990)59
 Onor, M., see Betti, M. 546(1991)259
 Oostervink, R., see Stegeman, G. 506(1990)547
 Oparil, S., see Meng, Q. C. 529(1990)201
 Ordunez, C., see Dunn, L. 548(1991)165
 Órfi, L., see Papp, O. 537(1991)371
 Orlov, V. I., see Hradil, J. 509(1990)369
 Örn, G., Lahtonen, K. and Jalonen, H.
 Direct high-performance liquid chromatographic separation of (+)- and (-)-medetomidine hydrochloride with an α_1 -acid glycoprotein chiral column 506(1990)627
 Oros, F. J. and Davis, J. M.
 Effect of stationary phase on predictions of the statistical model of overlap from gas chromatograms 550(1991)135
 Oros, G., see János, E. 520(1990)217
 Oroszlán, P., see Lin, S. 536(1991)17
 Orsonneau, J.-L., see Denis, M. 508(1990)97
 Osawa, M., see Ishida, K. 539(1991)169
 Óscik-Mendyk, B.
 Mechanism of liquid adsorption chromatography in thin-layer chromatography with ternary mobile phases 550(1991)645
 O'Shannessy, D. J.
 Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13
 O'Shannessy, D. J., see Andersson, L. I. 513(1990)167
 O'Shannessy, D. J., see Andersson, L. I. 516(1990)323
 Oshima, T., Sagara, K., Hirayama, F., Mizutani, T., He, L.-Y., Tong, Y.-Y., Chen, Y.-H. and Itokawa, H.
 Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175
 Ośmiałowski, K., see Kaliszan, R. 506(1990)3
 Osselton, M. D., see Smith, R. M. 514(1990)97
 Osselton, M. D., see Weston, S. I. 538(1991)277
 Ossicini, L., Perez, G., Caponecchi, G., Cristalli, A., Sybilska, D., Koscielski, T. and Goronowicz, J.
 Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283
 Österlöf, G., see Björk, M. 533(1990)229
 Ostrovský, I., see Soják, L. 509(1990)93
 Ostrovský, I., see Soják, L. 520(1990)75

- Ostrowski, J., see Dutot, C. 528(1990)435
 Otero, J., see Lema, M. 547(1991)113
 Otsuka, K. and Terabe, S.
 Enantiomeric resolution by micellar
 electrokinetic chromatography with chiral
 surfactants 515(1990)221
 Otsuka, K., see Terabe, S. 545(1991)359
 Ottersgård-Brorsson, A., see Polacek, J.
 526(1990)151
 Otto, M., see Bünger, H. 520(1990)383
 Otvos, Jr., L., Tangoren, I. A., Wroblewski, K.,
 Holloosi, M. and Lee, V. M.-Y.
 Reversed-phase high-performance liquid
 chromatographic separation of synthetic
 phosphopeptide isomers 512(1990)265
 Oung, J.-N., see Philp, R. P. 550(1991)193
 Ovadia, D., see Massil, S. E. 538(1991)435
 Over, J., see Te Booy, M. P. W. M.
 503(1990)103
 Overath, P., see Schell, D. 521(1990)239
 Ozegowski, R., see Kunath, A. 520(1990)361
 Ozinga, W. J. J., see Tüdös, A. J. 547(1991)1

P

- Pacáková, V., Štulík, K. and Wu, M.
 Ion-exchange separation of inorganic anions
 on a HEMA 1000 Q-L column
 520(1990)349
 Pacáková, V., see Heping, W. 519(1990)244
 Pacáková, V., see Wang, H. 509(1990)245
 Pace, M., Agnellini, D., Lippoli, G., Pietta, P. G.,
 Mauri, P. L. and Cinquanta, S.
 Purification of NAD glycohydrolase from
 Neurospora crassa conidia by a polyclonal
 immunoabsorbent 539(1991)517
 Pace, M., see Mauri, P. L. 548(1991)281
 Pacifici, R., see Zuccaro, P. 525(1990)447
 Packham, A. J., see Fielden, P. R. 516(1990)355
 Padalikar, S. V., see Patil, V. B. 519(1990)268
 Padilla, P., see Ladrón de Guevara, O.
 528(1990)35
 Pafumi, E., see Brega, A. 535(1990)311
 Pagani, R., see Terzuoli, L. 514(1990)80
 Pagani, R., see Terzuoli, L. 547(1991)472
 Page, R. L., see Tyczkowska, K. 527(1990)447
 Paik, J. S. and Venables, A. C.
 Analysis of packaged orange juice volatiles
 using headspace gas chromatography
 540(1991)456
 Paillet, M., see Bodenau, S. 533(1990)275
 Palamareva, M. D., Kurtev, B. J. and
 Kavrakova, I.
 Chromatographic behaviour of
 diastereoisomers. X. Thin-layer
 chromatographic retentions on silica of some
 (*E*)- and (*Z*)-oxazolones and related
 cinnamates as a function of mobile phase
 effects or Hammett constants 545(1991)161
 Palazzolo, D. L. and Quadri, S. K.
 Optimal conditions for long-term storage of
 biogenic amines for subsequent analysis by
 column chromatography with
 electrochemical detection 518(1990)258
 Paleologo Oriundi, M., see Bagnati, R.
 527(1990)267
 Palmborg, J., see Beving, H. 532(1990)45
 Palmerini, C. A., see Codini, M. 536(1991)337
 Palmerini, C. A., see Guida, E. 507(1990)51
 Palmisano, F., see Visconti, A. 540(1991)376
 Palmqvist, B., see Petersen, T. G. 504(1990)139
 Paluska-Ferencz, I., see Mucha, I. 543(1991)307
 Panas, J. M., see Pierron, C. 511(1990)367
 Pankow, J. F.
 Gas phase retention volume behavior of
 organic compounds on Carbotrap
 graphitized carbon 547(1991)488
 Pankow, J. F., see Rosen, M. E. 537(1991)321
 Panopio, L. G., see Ryan, J. J. 541(1991)131
 Papet, Y., see Decourt, J. P. 527(1990)214
 Papoff, P., see Betti, M. 546(1991)259
 Papp, E.
 Fast separation of dihydro ergot alkaloids
 on an octylsilica column 502(1990)241
 Papp, E. and Keresztes, P.
 Retention behaviour of mono- and
 dicarboxylic acids, carbohydrates and
 alcohols in ion-exclusion chromatography
 506(1990)157
 Papp, E. A., see Knupp, C. A. 533(1990)282
 Papp, O., Szász, G., Kőkösi, J. and Hermeicz, I.
 Correlation between structure and gas
 chromatographic behaviour of nitrogen-
 containing heterocyclic compounds. I.
 Methyl substitution of pyridopyrimidine
 derivatives 537(1991)365
 Papp, O., Szász, G., Kőkösi, J. and Hermeicz, I.
 Correlation between structure and gas
 chromatographic behaviour of nitrogen-
 containing heterocyclic compounds. III.
 Variation of ring size 537(1991)377
 Papp, O., Szász, G., Örfi, L. and Hermeicz, I.
 Correlation between structure and gas
 chromatographic behaviour of nitrogen-
 containing heterocyclic compounds. II. Alkyl
 substitution of quinazolone derivatives
 537(1991)371

- Paradisi, R., see Grossi, G. 541(1991)273
- Parcher, J. F., see Song, H. 518(1990)319
- Parikh, D. K., see Mayer, W. J. 536(1991)131
- Parikh, D. K., see Munera, M. E. 536(1991)123
- Park, J. H., Jang, M. D., Kim, D. S. and Carr, P. W.
Solvatochromic hydrogen bond donor acidity of aqueous binary solvent mixtures for reversed-phase liquid chromatography 513(1990)107
- Park, S., see Tran, A. D. 542(1991)459
- Parkin, J. E.
High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233
- Parkin, J. E.
High-performance liquid chromatographic assay of thiomersal (thimerosal) as the ethylmercury dithiocarbamate complex 542(1991)137
- Parks, R. J., see Neely, F. L. 540(1991)383
- Paroni, R., see Fermo, I. 534(1990)23
- Partridge, J., see Weston, S. I. 538(1991)277
- Parviainen, M. T., Puhakainen, E. V. J., Laatikainen, R., Savolainen, K., Herranen, J. and Barlow, R. D.
Nicotine metabolites in the urine of smokers 525(1990)193
- Pasch, H., see Gorshkov, A. V. 523(1990)91
- Pascual, E., see Steffens, G. C. M. 521(1990)291
- Pašteka, M., see Mislovičová, D. 543(1991)9
- Passuto, F. M., see Piquette-Miller, M. 526(1990)129
- Patchen, L. C., see Mount, D. L. 527(1990)51
- Patchen, L. C., see Wages, S. A. 527(1990)115
- Patel, A., O'Hara, M., Callaway, J. E., Greene, D., Martin, J. and Nishikawa, A. H.
Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83
- Patel, H. B., Stobaugh, J. F. and Riley, C. M.
Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357
- Patel, N., see Lachno, D. R. 525(1990)123
- Paterson, C. R., see Moody, J. P. 530(1990)19
- Paterson, R. R. M. and Kemmelmeier, C.
Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195
- Pathak, P. V., see Gaitonde, C. D. 514(1990)330
- Pathak, P. V., see Gaitonde, C. D. 514(1990)389
- Pathak, P. V., see Gaitonde, C. D. 528(1990)407
- Pathak, P. V., see Gaitonde, C. D. 532(1990)418
- Patil, V. B., Sevalkar, M. T. and Padalikar, S. V.
Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268
- Patonay, G., see Roberson, M. A. 505(1990)375
- Patrick, K. S. and Jarvi, E. J.
Capillary gas chromatographic-mass spectrometric analysis of plasma methylphenidate 528(1990)214
- Patrick, K. S., see Logan, B. K. 529(1990)175
- Patsalos, P. N., see Elyas, A. A. 528(1990)473
- Patterson, D. G., see Terabe, S. 516(1990)23
- Patthy, M., Balla, T. and Arányi, P.
High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201
- Pattyn, G., see Tjaden, U. R. 525(1990)141
- Paul, B. D., Mitchell, J. M., Burbage, R., Moy, M. and Stroka, R.
Gas chromatographic-electron-impact mass fragmentographic determination of lysergic acid diethylamide in urine 529(1990)103
- Pauls, J. D., see Gohill, J. 502(1990)47
- Paulus, A. and Ohms, J. I.
Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113
- Paulussen, R. J. A., see Haasnoot, W. 519(1990)323
- Pawlowska, M. and Lipkowski, J.
Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59
- Paxton, J. W., see Young, D. 528(1990)385
- Pays, M., see Beyne, P. 527(1990)140
- Pays, M., see Dutot, C. 528(1990)435
- Pchelkin, V. P. and Vereshchagin, A. G.
Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373
- Pearce, J. C., see Picot, V. S. 527(1990)454
- Pear, T. E., see Lee, H.-B. 547(1991)315
- Pedras, M. S. C. and Séguin-Swartz, G.
Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383
- Peeters, A., see Maris, F. 506(1990)211
- Peeters, A., see Schoenmakers, P. J. 506(1990)169
- Pelissier, J. P., see Scannif, P. 539(1991)425
- Pellegrino, S., see Petrarulo, M. 511(1990)223
- Pellegrino, S., see Petrarulo, M. 532(1990)130
- Pellerin, F., see Baillet, A. 519(1990)337

- Pellerin, F., see Yagoubi, N. 522(1990)131
- Pelletier, A., see Rastegar, A. 518(1990)157
- Peng, G. W. and Chiou, W. L.
Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3
- Peng, S., see Scalbert, A. 502(1990)107
- Pennings, E. J. M., see Poulsen, C. 547(1991)155
- Pepermans, H., see Van den Eeckhout, E. 504(1990)113
- Perchalski, R. J., see Szabo, G. K. 535(1990)271
- Perelroyen, M. P., see Kalambet, Y. A. 542(1991)247
- Perez, G., see Ossicini, L. 547(1991)283
- Pérez Avila, J., see Tápanes, R. D. 532(1990)400
- Pérez-Camino, M. C., see Márquez-Ruiz, G. 514(1990)37
- Perez-Illarbe, J., see Rigaud, J. 540(1991)401
- Perez-Paya, E., Braco, L., Abad, C. and Dufourcq, J.
High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351
- Perez-Paya, E., Braco, L., Abad, C., Soria, V. and Campos, A.
Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93
- Perfetti, T. A. and Swadesh, J. K.
On-line determination of the optical purity of nicotine 543(1991)129
- Perkins, E. G., see Rojo, J. A. 537(1991)329
- Perkins, J. R., Games, D. E., Startin, J. R. and Gilbert, J.
Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239
- Perkins, J. R., Games, D. E., Startin, J. R. and Gilbert, J.
Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257
- Perrett, D., see James, I. T. 525(1990)43
- Perrone, G. and Farina, M.
High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373
- Perrut, M., see Berger, C. 505(1990)37
- Perrut, M., see Görner, T. 514(1990)309
- Perry, J. A. and Rateike, J. D.
Product purity as a function of elution order 503(1990)403
- Persson, B.-A.
Determination of beta-blockers in biological material (edited by V. Marko) (Book Review) 527(1990)504
- Persson, B.-A., see Ahnoff, M. 531(1990)181
- Persson, B.-A., see Eriksson, B.-M. 527(1990)11
- Persson, C., see Dalbacke, J. 507(1990)381
- Pesek, J. J., see Aubel, M. T. 514(1990)11
- Peskar, B. A., see Hesse, W. H. 533(1990)159
- Pessa, E., see Suortti, T. 536(1991)251
- Pessotto, P., see Maccari, F. 532(1990)124
- Péter, A., Lukács, F., Burger, K., Schön, I., Löw, M. and Kisfaludy, L.
High-performance liquid chromatographic study of the reduction of protected oxytocin by sodium in liquid ammonia 507(1990)59
- Peter, R., see Böcker, R. H. 530(1990)206
- Peters, G. R., see Hancock, J. R. 538(1991)249
- Petersen, M.
Packed columns in supercritical fluid chromatography (Review) 505(1990)3
- Petersen, T. G. and Palmqvist, B.
Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139
- Petit, J., see Andriollo, O. 533(1990)215
- Petit, J., see Lartigue-Mattei, C. 529(1990)93
- Petrarulo, M., Bianco, O., Cosseddu, D., Marangella, M., Pellegrino, S. and Linari, F.
Improved high-performance liquid chromatographic determination of urinary glycolic acid 532(1990)130
- Petrarulo, M., Bianco, O., Marangella, M., Pellegrino, S., Linari, F. and Mentasti, E.
Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223
- Petrenko, V. V., see Larionov, O. G. 537(1991)295
- Petróczy, J., see Molnár-Perl, I. 520(1990)185
- Petrova, Y. I., see Vigdergauz, M. S. 509(1990)15
- Petruczynik, A., see Bieganska, M. L. 520(1990)403
- Petsev, N., see Chaney, C. 520(1990)33
- Petsev, N., see Gavrilova, T. B. 520(1990)41
- Pette, M., see Giegerich, G. 528(1990)79
- Pettersson, C., see Karlsson, A. 543(1991)287
- Pettersson, K.-J., see Björk, M. 533(1990)229
- Pettit, T. L., see Donnelly, J. R. 540(1991)293
- Peyton, A. L. and Ziege, E. A.
Determination of a potential antiasthmatic compound, tibanelast, and its application to phase I clinical trials 529(1990)377
- Pfaff, J. D., see Arar, E. J. 546(1991)335

- Pfannkoch, E. A., Switzer, B. S. and Kopaciewicz, W.
Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385
- Pfeffer, W. D. and Yeung, E. S.
Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401
- Pfleiderer, B., Albert, K. and Bayer, E.
Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343
- Pfundstein, B., Tricker, A. R. and Preussmann, R.
Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141
- Phang, L.-T., see Lim, K. B. H. 538(1991)492
- Phelan, D. G., Greig, N. H., Rapoport, S. I. and Soncrant, T. T.
High-performance liquid chromatographic assay of bromocriptine in rat plasma and brain 533(1990)264
- Philipp, W., see Wyss, R. 507(1990)187
- Phillips, D., see Dion, D. M. 535(1990)127
- Phillips, D. J., Bell-Alden, B., Cava, M., Grover, E. R., Mandeville, W. H., Mastico, R., Sawlwich, W., Vella, G. and Weston, A.
Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95
- Phillips, J., see Bianchi, A. P. 542(1991)413
- Phillips, T. M.
Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741
- Phillips, T. M. and Babashak, J. V.
Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387
- Philogène, B. J. R., see Xie, Y. S. 543(1991)389
- Philp, R. P., Oung, J.-N., Galvez-Sinibaldi, A. and Allen, J.
Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193
- Phylipsen, G. J. M., see Hordijk, C. A. 511(1990)317
- Picado, C., see Ramis, I. 532(1990)217
- Picari, M., see Marzo, A. 507(1990)235
- Piccaglia, R., see Galletti, G. C. 507(1990)439
- Piccolo, G., see Montecucchi, P. C. 512(1990)139
- Pichini, S., see Zuccaro, P. 525(1990)447
- Picot, V. S., Doyle, E. and Pearce, J. C.
Analysis of Zaprinast in rat and human plasma by automated solid-phase extraction and reversed-phase high-performance liquid chromatography 527(1990)454
- Picot, V. S., see Doyle, E. 527(1990)67
- Pierfederici, P., see Colombo, L. 530(1990)141
- Pierron, C., Panas, J. M., Etcheverry, M. F. and Ledouble, G.
Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367
- Pietrogrande, M. C., Bighi, C., Borea, P. A. and Dondi, F.
Linear solvation energy relationships in the study of the solvatochromic properties and liquid chromatographic retention behaviour of benzodiazepines 522(1990)37
- Pietrzyk, D. J., Senne, S. M. and Brown, D. M.
Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101
- Pietrzyk, D. J., see Yuan, D. 509(1990)357
- Pietta, P., Mauri, P., Gardana, C., Facino, R. M. and Carini, M.
High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449
- Pietta, P., Mauri, P., Manera, E. and Ceva, P.
Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397
- Pietta, P. G., Mauri, P. L., Gardana, C. and Bruno, A.
High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439
- Pietta, P. G., Mauri, P. L., Rava, A. and Sabbatini, G.
Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367
- Pietta, P. G., see Mauri, P. L. 548(1991)281
- Pietta, P. G., see Pace, M. 539(1991)517
- Pifferi, G., see Marzo, A. 535(1990)255
- Pilar Marco, M., see Camps, F. 514(1990)199
- Pimenov, A. M., see Tikhonov, Y. V. 520(1990)419
- Pinedo, H. M., see De Jong, J. 529(1990)359

- Pinkerton, T. C.
High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13
- Pintér-Szakács, M., see Fábán, V. 520(1990)193
- Pintér-Szakács, M., see Molnár-Perl, I. 520(1990)185
- Pinto, N. G., see Jen, S.-C. D. 519(1990)87
- Pinzauti, S., see Gatti, R. 507(1990)451
- Piotrowski, E., see Unruh, J. 519(1990)179
- Piquette-Miller, M. and Foster, R. T.
High-performance liquid chromatographic determination of diacetolol enantiomers 533(1990)300
- Piquette-Miller, M., Foster, R. T., Pasutto, F. M. and Jamali, F.
Stereospecific high-performance liquid chromatographic assay of acebutolol in human plasma and urine 526(1990)129
- Piretti, M. V. and Doghieri, P.
Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334
- Piriou, A., see Decourt, J. P. 527(1990)214
- Pirochtová, M., see Rittich, B. 523(1990)227
- Pisciotta, A., see Bicchi, C. 508(1990)341
- Pitha, J., see Stalcup, A. M. 513(1990)181
- Pitt, J. J.
Gas chromatographic-mass spectrometric characterisation of unsaturated dicarboxylic acids in urine 534(1990)182
- Pittman, K. A., see Mulvana, D. E. 527(1990)343
- Pittner, F., see Missbichler, A. 510(1990)339
- Pittner, F., see Schalkhammer, T. 510(1990)355
- Piwowar, Z., see Warzecha, L. 509(1990)227
- Pizzo, P. A., see Carpen, M. E. 526(1990)69
- Pizzo, P. A., see Hawkins, M. E. 532(1990)442
- Place, H., see Vidal-Madjar, C. 548(1991)81
- Planques, Y., Pora, H. and Menozzi, F. D.
Affinity purification of plasminogen by radial-flow affinity chromatography 539(1991)531
- Plasz, A., see Morgan, D. 502(1990)351
- Plasz, A. C., see Gorski, R. J. 540(1991)422
- Plat, M. and De Leo, J.
Application of ion chromatography to failure analysis of electronics packaging 546(1991)347
- Platonova, N. P., see Larionov, O. G. 537(1991)295
- Pleasant, S., see Thibault, P. 542(1991)483
- Plicka, J., Šmídl, P., Kleinmann, I. and Svoboda, V.
Hydrophobic interaction chromatography of proteins on Separon HEMA. III. Selection of suitable gradient conditions for the separation of proteins by hydrophobic interaction chromatography 523(1990)139
- Plicka, J., see Šmídl, P. 523(1990)131
- Ploum, M. E., see Haasnoot, W. 519(1990)323
- Plumitallo, A., see Cabras, P. 540(1991)406
- Podzimek, Š., Eichler, J. and Tkaczyk, M.
Liquid chromatographic analysis of cationic polymerized phenyl glycidyl ether 547(1991)195
- Poe, D. P. and Martire, D. E.
Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3
- Poe, D. P., see Martire, D. E. 545(1991)135
- Pogány, S. A., Deeken, R. A. and Zentner, G. M.
Gas chromatographic assay for 3,9-diethylidene-2,4,8,10-tetraoxaspiro[5.5]-undecane 508(1990)179
- Poggesi, I., see Lorusso, V. 525(1990)401
- Pognat, J. F., see Andriollo, O. 533(1990)215
- Pöhm, M., see Kenndler, E. 514(1990)383
- Poirier, J.-M., Lebot, M. and Cheymol, G.
Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223
- Poirot, S., see Jiménez, J. 511(1990)333
- Pokorný, J., see Velišek, J. 502(1990)167
- Pokorny, M., see Sokolić, M. 509(1990)189
- Polacek, J., Gustafsson, B., Brandin, S. and Ottersgård-Brorsson, A.
Determination of tauromustine and its demethylated metabolites in plasma and urine 526(1990)151
- Polański, J. and Ratajczak, A.
Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkanecarboxylic acids by thin-layer chromatography 543(1991)195
- Polanuer, B. M., see Golovnya, R. V. 517(1990)51
- Politowski, J. F., see Boppana, V. K. 548(1991)319
- Poll, D. J. and Harding, D. R. K.
Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37
- Polo, L. M., see Andrés, M. D. 507(1990)399
- Polonský, J., see Karovičová, J. 509(1990)283
- Polonský, J., see Karovičová, J. 545(1991)413

- Polverelli, M., Voituriez, L., Odin, F., Mouret, J.-F. and Cadet, J.
Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373
- Pommery, J., Mathieu, M., Mathieu, D. and Lhermitte, M.
High-performance liquid chromatographic determination of atrazine in human plasma 526(1990)569
- Ponomaryova, A. M., see Alyoshkin, V. A. 520(1990)425
- Pontecorvi, A., see Moretti, F. 511(1990)131
- Pontelli, L., see Cartoni, G. P. 537(1991)93
- Ponton, J., see Zaton, A. 525(1990)169
- Poole, C. F.
Modern thin-layer chromatography (edited by N. Grinberg) (Book Review) 522(1990)345
- Poole, C. F., see Kollie, T. O. 550(1990)213
- Popkov, M. Y., see Alyoshkin, V. A. 520(1990)425
- Poplack, D. G., see Carpen, M. E. 526(1990)69
- Poplack, D. G., see Hawkins, M. E. 532(1990)442
- Popova, M., see Kratchanov, C. 509(1990)239
- Popp, P., Mothes, S. and Hinneburg, D.
Radiofrequency detector for gas chromatography 520(1990)97
- Poppe, H.
Secondary equilibria and their interaction with chromatographic transport 506(1990)45
- Poppe, H., see Bruin, G. J. M. 517(1990)557
- Poppe, H., see Eguchi, S. 516(1990)301
- Poppe, H., see Huisden, R. E. 508(1990)289
- Poppe, H., see Huisden, R. E. 537(1991)1
- Poppe, H., see Stegeman, G. 506(1990)547
- Poppe, H., see Stegeman, G. 550(1991)721
- Poppe, H., see Tock, P. P. H. 506(1990)185
- Poppi, R. J., see Faigle, J. F. 539(1991)123
- Pora, H., see Planques, Y. 539(1991)531
- Porath, J.
Salt-promoted adsorption chromatography 510(1990)47
- Porath, J. and Hansen, P.
Cascade-mode multiaffinity chromatography. Fractionation of human serum proteins 550(1991)751
- Porath, J., see Belwe, M. 516(1990)333
- Porath, J., see Dobrowolska, G. 541(1991)333
- Porsch, B. and Krátká, J.
Chromatographic stability of silica-based aminopropyl-bonded stationary phases 543(1991)1
- Porsch, B., Voslář, J., Rosol, J. and Kubánek, V.
Preparative high-performance liquid chromatographic columns with an intra-column injection system 520(1990)295
- Porter, G. F., Savage, P. M. and McGuinness, E. T.
Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69
- Porziemsky, J.-P., see Lee, C. R. 539(1991)55
- Posluszny, J. V., Weinberger, R. and Woolf, E.
Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267
- Pospíchal, J., see Sudor, J. 545(1991)331
- Post, M. H., see Van der Horst, F. A. L. 507(1990)351
- Postaire, E., see Regnault, C. 547(1991)403
- Poulsen, C., Pennings, E. J. M. and Verpoorte, R.
High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155
- Powell, H. A., Kerby, N. W. and Rowell, P.
High-performance liquid chromatographic determination of the herbicide glyphosate and its metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201
- Powell, M. L., Town, C., Henderson, L. and Buck, C.
Determination of marplan in human plasma using high-performance liquid chromatography 529(1990)237
- Prabhu, S. V. and Baldwin, R. P.
High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227
- Praet, A., Dewaele, C., Verdonck, L. and Van der Kelen, G. P.
Liquid chromatography of organotin compounds on cyanopropyl silica gel 507(1990)427
- Prandini, P., see Brega, A. 535(1990)311
- Prasad, C., see Chuang, C.-Z. 534(1990)13
- Pribela, A., see Karovičová, J. 545(1991)413
- Preuss, E., see Böcker, R. H. 530(1990)206
- Preussmann, R., see Pfundstein, B. 539(1991)141
- Prevost, J., see Selinger, K. 526(1990)597
- Prevot, M., see Tod, M. 542(1991)295
- Prewitt, M. L., see Sellers, Jr., T. 513(1990)271
- Price, K. R., see Oleszek, W. 519(1990)109

- Priest, J. W. and Light, R. J.
Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237
- Prince, I. G., see Mao, Q. M. 548(1991)147
- Pritchard, K. W., see Ackland, C. E. 540(1991)187
- Prokai, L. and Bodor, N.
Reversed-phase high-performance liquid chromatography-thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474
- Prokai, L., Simay, A. and Bodor, N.
Reversed-phase high-performance liquid chromatography of ketoxime analogues of β -adrenergic blockers 541(1991)469
- Prokeš, B., see Jandera, P. 504(1990)297
- Prokeš, B., see Jandera, P. 550(1991)495
- Proksch, B., see Blanz, J. 532(1990)429
- Proudfoot, K. A., see Deistung, J. 539(1991)485
- Provost, L. R., see D'Agostino, P. A. 504(1990)259
- Provost, L. R., see D'Agostino, P. A. 541(1991)121
- Pscheidl, H., see Thede, R. 520(1990)109
- Puhakainen, E. V. J., see Parviainen, M. T. 525(1990)193
- Purdy, W. C., see Di Maso, M. 519(1990)256
- Purdy, W. C., see Li, S. 543(1991)105
- Purtscher, M., see Jungbauer, A. 512(1990)157
- Purvis, D. R., see Stewart, D. J. 510(1990)177
- Pylilo, R. J., see Szabo, G. K. 535(1990)271
- Pylilo, R. J., see Szabo, G. K. 535(1990)279

Q

- Qian, R., see Zhang, J. Y. 521(1990)71
- Qian, X.-X., Nagashima, K., Hobo, T., Guo, Y.-Y. and Yamaguchi, C.
High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257
- Quadri, S. K., see Palazzolo, D. L. 518(1990)258
- Quattrucci, E., see Cartoni, G. P. 537(1991)93
- Quearry, B. J., see Heyes, M. P. 530(1990)108
- Querishi, N., see Kargas, G. 526(1990)331
- Quindos, G., see Zaton, A. 525(1990)169
- Quintana de Gainzarain, A., see Contreras de Condado, M. C. 530(1990)164
- Quintero, G., see Vigh, G. 506(1990)481
- Quoix, E., see Jehl, F. 525(1990)225

R

- Raasch, W., see Kees, F. 525(1990)484
- Rabillon, J., see Dandeu, J.-P. 512(1990)177
- Rabillon, J., see Dandeu, J. P. 539(1991)475
- Rackham, D. M. and Harvey, G. A.
Stereochemical analysis of a leukotriene related hydroxypentadecadiene using a chiral high-performance liquid chromatography column and diode array detection 542(1991)189
- Radin, L., see Lucarelli, C. 515(1990)415
- Raemdonck, A., see Lin Ling, B. 502(1990)230
- Ragan, Jr., F. A., see Chuang, C.-Z. 534(1990)13
- Raghani, A., see Haky, J. E. 541(1991)303
- Ragnarsson, U., see Fransson, B. 508(1990)229
- Rahim, M. A., see Jamaluddin, A. B. M. 525(1990)495
- Rahman, M. K., see Jamaluddin, A. B. M. 525(1990)495
- Rainbow, S. J., Dawson, C. M. and Tickner, T. R.
Direct serum injection high-performance liquid chromatographic method for the simultaneous determination of phenobarbital, carbamazepine and phenytoin 527(1990)389
- Rainbow, S. J., see Dawson, C. M. 534(1990)267
- Rains, D. W., see Goyal, S. S. 537(1991)269
- Rains, D. W., see Hafez, A. A. 546(1991)387
- Raisys, V. A., see Dasgupta, A. 526(1990)260
- Rakotomanga, S., see Baillet, A. 519(1990)337
- Ramacci, M. T., see Maccari, F. 532(1990)124
- Ramamurthy, B., see Singhal, R. P. 543(1991)17
- Rambaud, F., see Tordjman, C. 532(1990)135
- Ramiandrasoa, P., see Daban Haurou, C. 547(1991)31
- Ramis, I., Roselló-Catafau, J., Artigot, M., Bulbena, O., Picado, C. and Gelpí, E.
Simultaneous reversed-phase extraction of

- lipoygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217
- Ramos, B. L., see Mike, J. H. 518(1990)167
- Ramos, F., see Tápanes, R. D. 532(1990)400
- Rand, K. N., see Sharp, P. J. 512(1990)189
- Rang, S., see Kuningas, K. 520(1990)137
- Rantio, T., see Van Beek, T. A. 543(1991)375
- Rao, P. N., see Tian, Z. 541(1991)297
- Rao, P. S., Weinstein, G. S., Wilson, D. W., Rujikarn, N. and Tyras, D. H. Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137
- Rao, P. S., see Das, D. K. 536(1991)273
- Rao, R. N., see Husain, S. 502(1990)208
- Rapoport, S. I., see Deutsch, J. 528(1990)325
- Rapoport, S. I., see Greig, N. H. 534(1990)279
- Rapoport, S. I., see Phelan, D. G. 533(1990)264
- Raschdorf, F., see Steiner, V. 530(1990)273
- Rashid, B. H., see Al-Ammar, A. S. 537(1991)287
- Rasmussen, H. T., Goebel, L. K. and McNair, H. M. Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549
- Rasmussen, H. T. and McNair, H. M. Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223
- Rasmussen, J. B., see Nicoll-Griffith, D. 526(1990)341
- Rasmussen, J. K., see Coleman, P. L. 512(1990)345
- Rasmussen, K. E., see Johansen, M. 532(1990)277
- Rasmussen, K. E., see Thanh, H. H. 532(1990)363
- Raspi, G., Lo Moro, A. and Spinetti, M. High-performance liquid chromatographic method for the determination of aprotinin in body fluids 525(1990)426
- Rastegar, A., Pelletier, A., Duportail, G., Freysz, L. and Leray, C. Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157
- Ratajczak, A., see Polański, J. 543(1991)195
- Rateike, J. D., see Perry, J. A. 503(1990)403
- Raulin, F., see Do, L. 514(1990)65
- Rausa, R., Mazzolari, E. and Calemma, V. Determination of molecular size distributions of humic acids by high-performance size-exclusion chromatography 541(1991)419
- Rava, A., see Pietta, P. G. 549(1991)367
- Raviv, O., see Hadas, E. 510(1990)303
- Rawlins, M. D., see Kamali, F. 530(1990)474
- Ray, R. K. and Kauffman, G. B. Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464
- Raynor, M. W., Bartle, K. D., Clifford, A. A., Chalmers, J. M., Katase, T., Rouse, C. A., Markides, K. E. and Lee, M. L. Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179
- Rdest, U., see Schmitt, W. 521(1990)211
- Recanatini, M., see Biagi, G. L. 504(1990)163
- Recanatini, M., see Biagi, G. L. 547(1991)523
- Redl, B., see Baier, G. 525(1990)319
- Redmond, J. W., see Haynes, P. A. 540(1991)177
- Reeuwijk, H. J. E. M., see Tjaden, U. R. 525(1990)141
- Regalia, M., see Binder, S. R. 550(1991)449
- Regnault, C., Delvordre, P. and Postaire, E. Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403
- Regnier, F. E., see Afeyan, N. B. 519(1990)1
- Regnier, F. E., see Afeyan, N. B. 544(1991)267
- Regnier, F. E., see Desilets, C. P. 544(1991)25
- Regnier, F. E., see Fulton, S. P. 547(1991)452
- Regnier, F. E., see Towns, J. K. 516(1990)69
- Regnier, F. E., see Yang, Y.-B. 544(1991)233
- Rehner, G., see Hahn, A. 540(1991)207
- Rehner, G., see Hahn, A. 545(1991)91
- Reichardt, P., see Vainiotalo, P. 547(1991)367
- Reid, D. G., see Sweeney, P. J. 539(1991)501
- Reid, G. E., see Ward, L. D. 519(1990)199
- Reid, J. L., see Midgley, J. M. 527(1990)259
- Reigner, B. G., Rigod, J. F. and Tozer, T. N. Simultaneous assay of pentachlorophenol and its metabolite, tetrachlorohydroquinone, by gas chromatography without derivatization 533(1990)111
- Reijnga, J. C. Data acquisition and digital filtering in analytical isotachopheresis 545(1991)337
- Reijnga, J. C. and Verheggen, T. P. E. M. Anomalous behaviour of sodium in isotachopheresis 545(1991)471
- Reijnga, J. C., see Trieling, R. G. 545(1991)475
- Reijn, J. M., see Van der Horst, F. A. L. 507(1990)351
- Reimer, M. L. J., see Nakano, K. 515(1990)537

- Rein, J., Cork, C. M. and Furton, K. G.
Factors governing the analytical supercritical fluid extraction and supercritical fluid chromatographic retention of polycyclic aromatic hydrocarbons 545(1991)149
- Reinholdsson, P., see Hargitai, T. 540(1991)145
- Reinhoud, N. J., Schröder, E., Tjaden, U. R., Niessen, W. M. A., Ten Noever de Brauw, M. C. and Van der Greef, J.
Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147
- Reisener, H. J., see Beissmann, B. 521(1990)187
- Reiss, D., see Decourt, J. P. 527(1990)214
- Reith, M. E. A., see Wiener, H. L. 527(1990)467
- Rejano, L., see Montaña, A. 521(1990)153
- Rekhter, B., see Nesterova, I. 537(1991)482
- Remberger, M., Hynning, P.-Å. and Neilson, A. H.
Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159
- Remien, J., see Haen, E. 537(1991)514
- Remmel, R. P., Huang, S.-H., Hoff, D. and Zimmerman, C. L.
Improved fluorometric high-performance liquid chromatographic assay for (-)-carbovir in rat blood and urine 534(1990)109
- Remmel, R. P., see Straka, R. J. 530(1990)83
- Renaud, A., see Makki, S. 539(1991)443
- Renlund, S., Klintrot, I.-M., Nunn, M., Schrimsher, J. L., Wernstedt, C. and Hellman, U.
Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325
- Renn, C. N. and Synovec, R. E.
Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289
- Renwick, A. G. C., see Hiyama, J. 529(1990)33
- Repetto, M., see Martínez, D. 528(1990)459
- Reschiglian, P., see Menziani, E. 511(1990)396
- Ress, K. M., see Kühlkamp, V. 528(1990)267
- Reuter, R., Naumann, M. and Kopperschlager, G.
New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189
- Reutter, W., see Josić, D. 516(1990)89
- Revel, M., see Novick, D. 510(1990)331
- Revilla, E., see Ling, C. F. 519(1990)359
- Reynolds, R. A., see Duffy, L. K. 512(1990)291
- Řezanka, T.
Identification of very long polyenoic acids as picolinyl esters by Ag⁺ ion-exchange high-performance liquid chromatography, reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 513(1990)344
- Řezanka, T. and Mareš, P.
Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333
- Řezanka, T. and Mareš, P.
Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145
- Řezanka, T. and Sokolov, M. Y.
Identification of fatty acids longer than C₃₂ in a sulphate-reducing bacterium by reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 508(1990)275
- Reznicek, G., see De Bettignies-Dutz, A. 547(1991)299
- Rho, D., see Chauret, N. 519(1990)99
- Rhodes, G. R., see Boppana, V. K. 506(1990)279
- Rhodes, G. R., see Boppana, V. K. 507(1990)79
- Rhodes, G. R., see Boppana, V. K. 548(1991)319
- Ribkinska, T. I., see Wolfson, A. D. 503(1990)277
- Ribon, B., see Benchekroun, Y. 532(1990)261
- Ricard-Blum, S., Hartmann, D. J. and Ville, G.
Polyacrylamide gel electrophoresis and immunoblotting of native collagen molecules using the Phast system. Application to type XI collagen 530(1990)432
- Ricardo da Silva, J. M., see Rigaud, J. 540(1991)401
- Ricciarelli, G., see Lucarelli, C. 511(1990)167
- Ricciarelli, G., see Lucarelli, C. 541(1991)285
- Richards, D. A., see Sherwood, R. A. 528(1990)293
- Richli, U., see Fay, L. 541(1991)89
- Richter, E., see Ernemann, U. 528(1990)243
- Rickard, E. C., see Nielsen, R. G. 516(1990)99
- Rickard, E. C., see Nielsen, R. G. 539(1991)177
- Rickert, P. G., see Gatrone, R. C. 516(1990)395
- Riess, G., see Xu, R. 547(1991)434
- Riester, R. L., see Martire, D. E. 545(1991)135

- Riethorst, W., see Te Booy, M. P. W. M. 503(1990)103
- Rigaud, J., Perez-Illzarbe, J., Ricardo da Silva, J. M. and Cheyner, V. Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401
- Righetti, P. G. Recent developments in electrophoretic methods (Review) 516(1990)3
- Righetti, P. G., see Chiari, M. 548(1991)381
- Righetti, P. G., see Wenisch, E. 516(1990)133
- Righezza, M. and Chrétien, J. R. Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393
- Rigod, J. F., see Reigner, B. G. 533(1990)111
- Rihn, B., see Baldacini, O. 528(1990)357
- Rijks, J. A., see Van Es, A. J. 517(1990)143
- Riley, C. M., Ault, Jr., J. M. and Klutman, N. E. Chromatographic methods for the bioanalysis of antiviral agents 531(1990)295
- Riley, C. M., see Patel, H. B. 536(1991)357
- Rindone, B., see Bolzacchini, E. 542(1991)337
- Rindone, B., see Bolzacchini, E. 548(1991)229
- Rindone, B., see Giacobbe, S. 548(1991)289
- Rindone, B., see Miraglia, N. 512(1990)123
- Rindone, B., see Søndergaard, I. 512(1990)115
- Ripamonti, M., see Marzo, A. 507(1990)235
- Ripamonti, M., see Marzo, A. 507(1990)241
- Risler, T., see Kühlkamp, V. 528(1990)267
- Rissler, K. and Cramer, H. High-performance liquid chromatographic separation of tachykinins using Tris-phosphate as the buffer component of the mobile phase 533(1990)179
- Ristori, J. M., see Lartigue-Mattei, C. 529(1990)93
- Rittich, B. and Pirochtová, M. Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227
- Rius, F. X., see Marcé, R. M. 542(1991)277
- Rivard, G. E., see Lin, K. T. 536(1991)349
- Riviere, J. E., see Tyczkowska, K. 527(1990)447
- Rivière, M., see Monje, M. C. 521(1990)148
- Rizzi, A. M. Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a prepreparation on a non-chiral alkylsilica column 513(1990)195
- Rizzi, A. M. Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221
- Rizzica, M., see Di Muccio, A. 513(1990)333
- Rizzo, V., D'Eril, G. M., Achilli, G. and Cellerino, G. P. Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229
- Robbat, Jr., A. and Liu, T.-Y. Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117
- Robbat, Jr., A., see Liu, T.-Y. 539(1991)1
- Roberson, M. A. and Patonay, G. Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375
- Robie, C. A., see Minocha, S. C. 511(1990)177
- Robinet, D., see Said, R. 530(1990)11
- Rocca, J.-L., see Nicot, G. 528(1990)258
- Rocklin, R. D. Detection in ion chromatography (Review) 546(1991)175
- Røder, M. E., see Linde, S. 548(1991)371
- Rodgers, A. H., see Strasters, J. K. 511(1990)17
- Rodriguez, M., see Afonso, D. 528(1990)101
- Rodriguez, R., see Zhu, M. 516(1990)123
- Roemen, T. H. M., Keizer, H. and Van der Vusse, G. J. Quantitative assessment of γ -linolenic acid in human blood and plasma with capillary gas chromatography 528(1990)447
- Roeraade, J., see Emmer, Å. 547(1991)544
- Roeraade, J., see Lindström, M. 513(1990)315
- Roeske, R. W., see Tian, Z. 541(1991)297
- Rogers, S. J., see Doyle, E. 527(1990)67
- Rogers, S. J., see Huber, R. 529(1990)389
- Rögner, M. Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219
- Roifman, J. N., see Mahoney, N. E. 508(1990)247
- Rojo, J. A. and Perkins, E. G. Isomer identification and gas chromatographic retention studies of monomeric cyclic fatty acid methyl esters 537(1991)329

- Rokushika, S., Kihara, K., Subosa, P. F. and Leng, W.-X.
Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355
- Rokushika, S., see Yamamoto, F. M. 515(1990)3
- Rolet, M.-C., see Drogue, S. 538(1991)91
- Rollema, H. S., see Visser, S. 548(1991)361
- Rollin, M., see Chaufer, B. 548(1991)215
- Rollin, P., see Lafosse, M. 505(1990)191
- Rolls, W. A. and Fréchet, J. M. J.
High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97
- Roman, M., Dovi, R., Yoder, R., Dias, F. and Warden, B.
Determination by ion chromatography and spectrophotometry of the effects of preservation on nitrite and nitrate 546(1991)341
- Romano, J., Jandik, P., Jones, W. R. and Jackson, P. E.
Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411
- Romero, T. E., see Sánchez-Rasero, F. 538(1991)480
- Römmelt, E.-M., see Schmitt, S. 510(1990)239
- Roos, P. H.
Analytical fractionation of microsomal cytochrome P-450 isoenzymes from rat liver by high-performance ion-exchange chromatography 521(1990)251
- Roosemalen, M. C. M., see Soons, P. A. 528(1990)343
- Rop, P. P., Durand, A., Viala, A. and Jørgensen, A.
Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226
- Rop, P. P., Spinazzola, J., Bresson, M., Conquy, T. and Viala, A.
Determination of amineptine and its main metabolite in plasma by high-performance liquid chromatography after solid-phase extraction 532(1990)351
- Rop, P. P., see Cahard, C. 532(1990)193
- Rosado, A., see Tápanes, R. D. 532(1990)400
- Rose, M. L., see Lachno, D. R. 525(1990)123
- Rose, Jr., D. J.
Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343
- Roselló-Catafau, J., see Ramis, I. 532(1990)217
- Rosen, M. E. and Pankow, J. F.
Adsorption/thermal desorption for the determination of volatile organic compounds in water 537(1991)321
- Rosen, R. T., see Abidi, S. L. 522(1990)179
- Rosenblum, R., see Binder, S. R. 550(1991)449
- Rosenfeld, C., see Blanz, J. 532(1990)429
- Rosenlund, B. L.
Time-saving method for the reversed-phase high-performance liquid chromatography of phenylthiocarbamylamino acid derivatives of free amino acids in plasma 529(1990)258
- Rosenzweig, I. B., see Dasgupta, A. 526(1990)260
- Roshchina, T. M. and Vasil'eva, E. V.
Lead selenide as a polar adsorbent for gas chromatography 520(1990)15
- Roshka, G., see Nesterova, I. 537(1991)482
- Rosol, J., see Porsch, B. 520(1990)295
- Rosseel, M. T., Bogaert, M. G. and Huyghens, L.
Determination of the calcium antagonist nimodipine in plasma by capillary gas chromatography and nitrogen detection 533(1990)224
- Rosseel, M. T. and Lefebvre, R. A.
High-performance liquid chromatographic determination of propylthiouracil in plasma 507(1990)247
- Rosset, R., see Drogue, S. 538(1991)91
- Rosset, R., see Janicot, J. L. 505(1990)247
- Rosset, R., see Siret, L. 540(1991)129
- Rosset, R., see Tambuté, A. 541(1991)349
- Rosso di San Secondo, V. E. M., see Montecucchi, P. C. 512(1990)139
- Rotatori, M., see Bertoni, G. 522(1990)285
- Roth, M.
Enthalpy of transfer in supercritical fluid chromatography 543(1991)262
- Rouchouse, A., Manoha, M., Durand, A. and Thenot, J. P.
Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601
- Roumelis, N., see Mineshos, G. 541(1991)99
- Rounds, M. A., see Desilets, C. P. 544(1991)25
- Rouse, C. A., see Raynor, M. W. 505(1990)179
- Rousseau-Tsangaris, M., see Scappaticci, B. 534(1990)57
- Rousseaux, J., see Bianchi, F. 518(1990)123
- Rousseaux-Prevost, R., see Bianchi, F. 518(1990)123
- Roveri, P., see Gatti, R. 507(1990)451
- Rowan, D. D., see Fannin, F. F. 503(1990)288
- Rowell, P., see Powell, H. A. 502(1990)201

- Ruban, V. F., Anisimova, I. A. and Belen'kii, B. G.
Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307
- Rubinstein, M., see Novick, D. 510(1990)331
- Rudenko, B. A., see Dubrova, M. A. 520(1990)169
- Rudling, J.
Improvement of activated carbon for air sampling 503(1990)33
- Rudolph, M.
Direct enantiomeric separation of saterinone by high-performance liquid chromatography 525(1990)161
- Rudolph, M., Volk, D. and Schmiedel, G.
Determination of saterinone enantiomers in plasma samples with an internal standard using a Chiralcel OD column. Fractionation and reversed-phase chromatography 535(1990)263
- Rudy, A. C., Anliker, K. S. and Hall, S. D.
High-performance liquid chromatographic determination of the stereoisomeric metabolites of ibuprofen 528(1990)395
- Rudy, T., see Kargas, G. 526(1990)331
- Ruenitz, P. C., see Ruzicka, J. A. 518(1990)385
- Rujikarn, N., see Rao, P. S. 536(1991)137
- Rump, U., see Hahn, A. 540(1991)207
- Ruprecht, R. M., Sharpe, A. H., Jaenisch, R. and Trites, D.
Analysis of 3'-azido-3'-deoxythymidine levels in tissues and milk by isocratic high-performance liquid chromatography 528(1990)371
- Ruskin, H., see Kelly, M. T. 528(1990)277
- Russell, I. M., see Shalliker, R. A. 543(1991)157
- Rustenbeck, I. and Lenzen, S.
Quantitation of hexadecylphosphocholine by high-performance thin-layer chromatography with densitometry 525(1990)85
- Rustum, A. M.
Measurement of ibuprofen in human whole blood by reversed-phase ion-paired high-performance liquid chromatography using a pH-stable polymeric column 526(1990)246
- Rustum, A. M.
Measurement of verapamil in human plasma by reversed-phase high-performance liquid chromatography using a short octyl column 528(1990)480
- Rustum, A. M., Ash, S., Saxena, A. and Balu, K.
Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209
- Rustum, A. M. and Gutierrez, L.
Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115
- Ruth, K. A. and Shaw, R. W.
Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243
- Ruzicka, J. A. and Ruenitz, P. C.
Derivatization-liquid chromatographic assay of chloroacetaldehyde in biological samples 518(1990)385
- Ruzza, P., see Calderan, A. 548(1991)329
- Ryabikova, V. M., Tumina, S. D. and Zigel, A. N.
Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121
- Ryall, R. R., see Tran, A. D. 542(1991)459
- Ryan, A. J., see Sugiyanto, 530(1990)337
- Ryan, J. J., Conacher, H. B. S., Panopio, L. G., Lau, B. P.-Y., Hardy, J. A. and Masuda, Y.
Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131
- Ryan, P. A., Ewels, B. A. and Glajch, J. L.
Separation and detection of oxidation products in Neurolite raw material 550(1991)549
- Ryan, T. W., Yocklovich, S. G., Watkins, J. C. and Levy, E. J.
Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273
- S**
- Saari-Nordhaus, R. and Anderson, Jr., J. M.
Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

- Saari-Nordhaus, R., Henderson, I. K. and Anderson, Jr., J. M.
 Universal stationary phase for the separation of anions on suppressor-based and single-column ion chromatographic systems 546(1991)89
- Saari-Nordhaus, R., see Henderson, I. K. 546(1991)61
- Sabbatini, G., see Pietta, P. G. 549(1991)367
- Sada, A., see Cacace, M. G. 510(1990)41
- Sadana, G. S. and Ghogare, A. B.
 Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515
- Saga, Y., Gasa, S., Makita, A. and Oikawa, K.
 Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379
- Sagara, K., see Oshima, T. 547(1991)175
- Sagara, T., see Naito, K. 503(1990)25
- Sági, J., see Valkó, K. 506(1990)35
- Sahartova, O. V., see Shatz, V. D. 521(1990)19
- Said, R., Robinet, D., Barbier, C., Sartre, J. and Huguet, C.
 Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11
- Saito, H., see Matsumoto, M. 526(1990)1
- Saito, K., Horie, M., Hoshino, Y., Nose, N. and Nakazawa, H.
 High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141
- Saito, K., see Horie, M. 502(1990)371
- Saito, K., see Horie, M. 538(1991)484
- Saito, M. and Yamauchi, Y.
 Isolation of tocopherols from wheat germ oil by recycle semi-preparative supercritical fluid chromatography 505(1990)257
- Saito, M., see Higashidate, S. 515(1990)295
- Saito, M., see Yamauchi, Y. 505(1990)237
- Saito, M., see Yamauchi, Y. 515(1990)285
- Saito, T., see Takeuchi, M. 515(1990)629
- Saito, T., see Watanabe, S. 518(1990)264
- Saitoh, K., Shibata, Y. and Suzuki, N.
 Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351
- Saitoh, K., see Suzuki, N. 504(1990)179
- Saitoh, K., see Tsukahara, S. 547(1991)225
- Sajjad, S. M., see Husain, S. 513(1990)83
- Sakamoto, N., see Okamoto, Y. 539(1991)221
- Sakashita, S., see Miwa, T. 511(1990)89
- Sakayanagi, N., see Kurosu, Y. 515(1990)407
- Sakita, T., see Oka, H. 538(1991)149
- Sakuma, I., Takai, N., Dohi, T., Fukui, Y. and Ohkubo, A.
 Resolution of unresolved peaks containing unknown components by high-performance liquid chromatography with multi-wavelength detection 506(1990)223
- Šalamoun, J., Macka, M., Nechvátal, M., Matoušek, M. and Knesel, L.
 Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179
- Šalamoun, J. and Šlais, K.
 On-line precolumn photochemical generation of pH gradient: micro-high-performance liquid chromatography of methotrexate and its impurities 522(1990)205
- Šalamoun, J. and Šlais, K.
 Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249
- Salari, H. and Eigendorf, G. K.
 Detection of lyso-platelet-activating factor by high-performance liquid chromatography after derivatisation with fluorescent fatty acids 527(1990)303
- Saleh, S., Johnston, A. and Turner, P.
 Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531
- Salem, G. W., see Shih, M. L. 527(1990)371
- Salen, G., see Batta, A. K. 542(1991)184
- Salenko, V. L., Troshkov, M. L. and Zibarev, A. V.
 Cyclic aryleneazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429
- Salgó, A., see Ganzler, K. 520(1990)257
- Salles, C., Jallageas, J.-C. and Crouzet, J.
 Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255
- Salomon, K., Burgi, D. S. and Helmer, J. C.
 Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375
- Salonen, J. S.
 Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163
- Salonen, J. S., see Vuorilehto, L. 530(1990)137
- Salvadori, P., see Bertucci, C. 506(1990)617
- Samejima, M., see Tagawa, K. 529(1990)500
- Samperi, R., see Carfagnini, G. 530(1990)359

- Samuelsen, O. B.
High-performance liquid chromatographic determination of furazolidone in Atlantic salmon (*Salmo salar*) tissue 528(1990)495
- Samuelsen, O. B.
Simple and rapid method for the determination of flumequine and oxolinic acid in salmon (*Salmo salar*) plasma by high-performance liquid chromatography and fluorescence detection 530(1990)452
- Samuelsson, B., see Strömqvist, M. 548(1991)293
- Sanagi, M. M., see Smith, R. M. 505(1990)147
- Sanchez, A. H., see Montaña, A. 521(1990)153
- Sánchez, L., see Ena, J. M. 525(1990)442
- Sánchez-Rasero, F., Romero, T. E. and Dios, C. G.
Liquid chromatographic determination of carbendazim in the presence of some normal soil constituents with photodiode-array detection 538(1991)480
- Sancho, P., see García-Pérez, A.-I. 504(1990)79
- Sandberg, J. A. and Olsen, G. D.
Microassay for the simultaneous determination of cocaine, norcocaine, benzylecgonine and benzoylecgonine by high-performance liquid chromatography 525(1990)113
- Sander, L. C., see Olsson, M. 537(1991)73
- Sander, L. C., see Wise, S. A. 514(1990)111
- Sandhya, G., see Govindachari, T. R. 513(1990)389
- Sandra, P., see Hevesi, T. 517(1990)161
- Sandra, P., see Vindevogel, J. 541(1991)483
- Sandy, K. C., see Wu, Z. 513(1990)209
- Sankaran, K., see Gorecki, D. K. J. 528(1990)333
- Sano, A., see Azekawa, T. 530(1990)47
- Sano, Y., see Yamamoto, S. 512(1990)77
- Sano, Y., see Yamamoto, S. 512(1990)89
- Sansó, M., see Montecucchi, P. C. 512(1990)139
- Santa, P. F., see Nielsen, R. G. 539(1991)177
- Santasania, C. T., see Feibush, B. 544(1991)41
- Santilio, A., see Di Muccio, A. 513(1990)333
- Santin, M., see Cacace, M. G. 510(1990)41
- Santiuste, J. M., see Becerra, M. R. 547(1991)269
- Sanz, A. M., see Alonso-Silva, I. J. 507(1990)293
- Sapers, G. M., Douglas, Jr., F. W., Ziolkowski, M. A., Miller, R. L. and Hicks, K. B.
Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431
- Sapone, A., see Biagi, G. L. 547(1991)523
- Sapp, E., see Weinberger, R. 516(1990)271
- Saricheva, E. A., see Berezkina, L. G. 520(1990)157
- Sarocka, C., see Gorski, R. J. 540(1991)422
- Sarocka, C., see Morgan, D. 502(1990)351
- Sartre, J., see Said, R. 530(1990)11
- Sarwar, G., see Jamaluddin, A. B. M. 525(1990)495
- Sarwar, Y., see Singhal, R. P. 543(1991)17
- Sasaki, A., see Machida, R. 534(1990)190
- Sasaki, H., see Takeda, S. 530(1990)447
- Sasaki, S., see Harada, M. 527(1990)158
- Sasaki, T., see Fujimori, H. 515(1990)363
- Sasaki, T., see Fujimori, H. 528(1990)305
- Sasaki, T., see Kurosu, Y. 515(1990)407
- Sato, K., see Moore, C. M. 539(1991)215
- Sato, S., see Watanabe, S. 518(1990)264
- Sato, T., see Asakawa, N. 541(1991)231
- Sato, T., see Hiro, T. 528(1990)315
- Sato, T., see Oda, Y. 541(1991)411
- Sato, Y., Ishikawa, N. and Takagi, T.
High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25
- Sattler, W., see Welz, W. 526(1990)319
- Saunier, M., see Djalali, M. 529(1990)81
- Sautière, P., see Bianchi, F. 518(1990)123
- Savage, J. C. and Gould, D. H.
Determination of sulfide in brain tissue and rumen fluid by ion-interaction reversed-phase high-performance liquid chromatography 526(1990)540
- Savage, P. M., see Porter, G. F. 502(1990)69
- Savarese, J., see DeAngelis, R. 525(1990)389
- Savolainen, K., see Parviainen, M. T. 525(1990)193
- Sawamoto, H., see Gamoh, K. 515(1990)227
- Sawhney, S. Y. and Bhide, S. V.
Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272
- Sawlvich, W., see Phillips, D. J. 536(1991)95
- Saxena, A., see Rustum, A. M. 514(1990)209
- Sbirazzuoli, V., see Candito, M. 526(1990)194
- Scalbert, A., Duval, L., Peng, S., Monties, B. and Du Penhoat, C.
Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107
- Scandroglio, A., see Buzzigoli, G. 507(1990)85
- Scanff, P., Yvon, M. and Pelissier, J. P.
Immobilized Fe³⁺ affinity chromatographic isolation of phosphopeptides 539(1991)425

- Scappaticci, B., Soubeyrand, J., Rousseau-Tsangaris, M., Desage, M., Brazier, J. L. and Coquet, B.
Determination of sodium diethyldithiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57
- Scarlett, B., see Mori, Y. 515(1990)27
- Scarminio, I. S., see Faigle, J. F. 539(1991)123
- Scawen, M. D., see Edwardson, P. A. D. 545(1991)79
- Schaefer, H. G., Spahn, H., Lopez, L. M. and Derendorf, H.
Simultaneous determination of propranolol and 4-hydroxypropranolol enantiomers after chiral derivatization using reversed-phase high-performance liquid chromatography 527(1990)351
- Schalkhammer, T., Mann-Buxbaum, E., Urban, G. and Pittner, F.
Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355
- Schamp, N., see Keymeulen, R. 541(1991)83
- Schanbacher, B. D., see Grotjan, H. E. 549(1991)141
- Schaufelberger, D. E.
Applications of analytical high-speed counter-current chromatography in natural products chemistry (Review) 538(1991)45
- Schaufelberger, D. E., McCloud, T. G. and Beutler, J. A.
Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87
- Scheeren, H. A., see Van Beek, T. A. 543(1991)375
- Scheinin, M., see Laakso, S. 526(1990)475
- Schell, D. and Overath, P.
Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239
- Schenning, M., see Kågedal, L. 537(1991)17
- Schepers, J., see Wieling, J. 545(1991)101
- Scherberich, J. E., Wiemer, J., Herzig, C., Fischer, P. and Schoeppe, W.
Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279
- Schiavi, M., see Italia, A. 503(1990)266
- Schildknecht, H., see Meier-Augenstein, W. 518(1990)254
- Schill, G., see Arvidsson, E. 506(1990)579
- Schilt, R., see Haasnoot, W. 519(1990)323
- Schimpf, M. E.
Characterization of polymers by thermal field-flow fractionation 517(1990)405
- Schinella, M., see Mazzi, G. 528(1990)537
- Schirmer, D., see Ernemann, U. 528(1990)243
- Schirmer, M. M., see Bradshaw, J. S. 540(1991)279
- Schlegel, W., see Tombach, B. 521(1990)231
- Schmermund, J. T. and Locke, D. C.
Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319
- Schmid, F., see Kühkamp, V. 528(1990)267
- Schmid, H.-P., see Tomek, W. 521(1990)221
- Schmid, R. D., see Kalisz, H. M. 521(1990)245
- Schmidt, A., see Bauer, J. F. 514(1990)348
- Schmidt, A. H. and Wombacher, H.
Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379
- Schmidt, H.-D., see Ludwig, S. 520(1990)69
- Schmidt, K.-H., see Bruchelt, G. 545(1991)407
- Schmidt, U., see Burger, B. V. 518(1990)207
- Schmidt-Beiwil, K., see Kenndler, E. 545(1991)397
- Schmiedel, G., see Rudolph, M. 535(1990)263
- Schmitt, S., Goetschel, J. D., Römmelt, E.-M. and Adler, C.
One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239
- Schmitt, W., Rdest, U. and Goebel, W.
Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211
- Schmitz, F. P., see Hütz, A. 505(1990)99
- Schmitz, F. P., see Küppers, S. 505(1990)109
- Schmitz, G., see Josić, D. 516(1990)89
- Schmitz, S., see Bentrop, D. 535(1990)293
- Schmitz, S. J., Zwanziger, H. and Engelhardt, H.
Characterization of reversed phases by chemometric methods 544(1991)381
- Schnabel, R. and Langer, P.
Controlled-pore glass as a stationary phase in chromatography (Review) 544(1991)137
- Schnable, J. G., Capangpangan, M. B. and Suffet, I. H.
Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

- Schnable, J. G., Dussert, B., Suffet, I. H. and Hertz, C. D.
Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47
- Schneider, G. M., see Dahmen, N. 505(1990)169
- Schneider, V., see Werner, G. 525(1990)265
- Schoene, K., Steinhanses, J. and König, A.
Sorption isotherms of organic vapours on Tenax 514(1990)279
- Schoene, K., see Steinhanses, J. 514(1990)273
- Schoenmakers, P. J.
Practical HPLC method development (by L. R. Snyder, J. L. Glajch and J. J. Kirkland) (Book Review) 509(1990)406
- Schoenmakers, P. J., Bartha, Á. and Billiet, H. A. H.
Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425
- Schoenmakers, P. J., Peeters, A. and Lynch, R. J.
Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169
- Schoenmakers, P. J., Uunk, L. G. M. and Janssen, H.-G.
Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563
- Schoenmakers, P. J., see Eguchi, S. 516(1990)301
- Schoenmakers, P. J., see Mulholland, M. 550(1991)257
- Schoeppe, W., see Scherberich, J. E. 521(1990)279
- Scholl, J. P., see MacLeod, S. K. 502(1990)236
- Scholzen, T., see Kasche, V. 510(1990)149
- Schomburg, G., see Hanson, M. 517(1990)269
- Schomburg, G., see Hetem, M. J. J. 540(1991)53
- Schön, I., see Péter, A. 507(1990)59
- Schöndorf, G., see Engelhardt, H. 535(1990)41
- Schoots, A. C., see Verheggen, T. P. E. M. 503(1990)245
- Schopfer, C. and Benakis, A.
Simplified method for the determination of atracurium and laudanosine in pig plasma by high-performance liquid chromatography and fluorimetric detection 526(1990)223
- Schram, K. H., see Nakano, K. 515(1990)537
- Schramm, J. and Sorenson, S. C.
Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241
- Schreiber, B., see Djordjevic, N. M. 550(1991)27
- Schreiber, J.-P., see Cachia, C. 539(1991)343
- Schreier, P., see Huffer, M. 519(1990)263
- Schreiter, C., see Werner, A. 507(1990)311
- Schrimsher, J. L., see Renlund, S. 512(1990)325
- Schröder, B., Mangels, J., Selke, K., Wolpers, S. and Dannecker, W.
Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241
- Schröder, E., see Kokkonen, P. 511(1990)35
- Schröder, E., see Reinhoud, N. J. 516(1990)147
- Schröder, W., Dumas, M. L. and Klein, U.
Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213
- Schroeder, L. A., see Malmer, M. F. 514(1990)227
- Schudel, J., see Huang, J.-X. 504(1990)335
- Schüller, J., see Jäger, W. 532(1990)411
- Schultz, G. A., see Watson, J. T. 518(1990)283
- Schultz, J. E., see Klumpp, S. 521(1990)179
- Schure, M. R.
Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51
- Schuring, H. F., see Teelken, A. W. 529(1990)408
- Schuvalova, T. N., see Karabanov, N. T. 508(1990)193
- Schwartz, D. P., see Unruh, J. 519(1990)179
- Schwartz, F., see Hadas, E. 510(1990)303
- Schwartz, F., see Solomon, B. 510(1990)321
- Schwartz, F., see Solomon, B. 539(1991)335
- Schwartz, S. J., see Van Breemen, R. B. 542(1991)373
- Schwedt, G., see Yan, D. 516(1990)383
- Schweer, H., see Hesse, W. H. 533(1990)159
- Schwende, F. J. and Lewis, R. C.
Determination of nicorandil in plasma using high-performance liquid chromatography with photoconductivity and ultraviolet detection. Application to pre-clinical pharmacokinetics in beagle dogs 525(1990)151
- Schwer, C., see Kenndler, E. 508(1990)203
- Schwer, C., see Kenndler, E. 514(1990)383
- Schwer, C., see Widhalm, A. 549(1991)446
- Schwidop, W.-D., Klossek, P., Müller, R. and Claus, R.
Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325
- Scott, D. O., Sorensen, L. R. and Lunte, C. E.
In vivo microdialysis sampling coupled to liquid chromatography for the study of acetaminophen metabolism 506(1990)461

- Scott, P. M., see Kanhere, S. R. 511(1990)384
- Scott, P. M., see Tarter, E. J. 538(1991)441
- Scott, R. P. W.
Design of liquid chromatography capillary columns 517(1990)297
- Scouten, W. H., see Slingerland, R. J. 510(1990)205
- Seaton, G. G. R., see Marr, J. G. D. 506(1990)289
- Sebille, B., Zini, R., Madjar, C.-V., Thuaud, N. and Tillement, J.-P.
Separation procedures used to reveal and follow drug-protein binding 531(1990)51
- Sébillé, B., see Chaufer, B. 548(1991)215
- Sébillé, B., see Cysewski, P. 548(1991)61
- Sebille, B., see Thuaud, N. 503(1990)453
- Sebti, S. M., see Mistry, J. S. 514(1990)86
- Secchi, C., see Berrini, A. 547(1991)457
- Secchieri, M., see Calderan, A. 548(1991)329
- Secreast, S. L.
Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99.
- Segal, A. W., see Leoni, P. 527(1990)152
- Segatti, M. P., Nisi, G., Grossi, F., Mangiarotti, M. and Lucarelli, C.
Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319
- Segelman, A. B., Adusumalli, V. E. and Segelman, F. H.
Automated liquid chromatographic determination of ranitidine in microliter samples of rat plasma 535(1990)287
- Segelman, F. H., see Segelman, A. B. 535(1990)287
- Séguin-Swartz, G., see Pedras, M. S. C. 519(1990)383
- Sei, H., see Azekawa, T. 530(1990)47
- Seidel, A., see Slonina, P. 537(1991)167
- Seifert, H. S. H., see Heitefuss, S. 532(1990)374
- Seipel, L., see Kühlkamp, V. 528(1990)267
- Seki, M., see Yoshioka, M. 515(1990)205
- Seki, T., Yanagihara, Y. and Noguchi, K.
Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435
- Sekiba, K., see Morita, I. 526(1990)367
- Selinger, K., Prevost, J. and Hill, H. M.
High-performance liquid chromatography method for the determination of diphenhydramine in human plasma 526(1990)597
- Selke, K., see Schröder, B. 514(1990)241
- Sellberg, B., see Fell, A. F. 535(1990)33
- Sellers, Jr., T. and Prewitt, M. L.
Applications of gel filtration chromatography for resol phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271
- Semenzato, A., see Benassi, C. A. 502(1990)193
- Semenzato, A., see Bettero, A. 507(1990)403
- Semporé, B. G. and Bézard, J. A.
Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89
- Senda, M., see Fujimori, H. 515(1990)363
- Senda, M., see Fujimori, H. 528(1990)305
- Senda, M., see Higashidate, S. 515(1990)577
- Senda, M., see Kurosu, Y. 515(1990)407
- Senf, L. and Frank, H.
Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131
- Senior, A. T., see Glennon, J. D. 527(1990)481
- Senne, S. M., see Pietrzyk, D. J. 546(1991)101
- Seno, M., Lin, M. and Iwamoto, K.
Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127
- Seno, M., Lin, M. and Iwamoto, K.
Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293
- Sentier, L., Marchal, J., Boudrant, J. and Germain, P.
Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531
- Seppälä, T., see Lillsunde, P. 533(1990)97
- Seppänen-Laakso, T., Laakso, I. and Hiltunen, R.
Rapid determination of unsubstituted alkylglyceryl ethers by gas chromatography-mass spectrometry 530(1990)94
- Sequi, P., see Ciavatta, C. 509(1990)141
- Serkiz, B., see Tordjman, C. 532(1990)135
- Seta, K., Nakamura, H. and Okuyama, T.
Determination of α -tocopherol, free cholesterol, esterified cholesterol and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585
- Sevalkar, M. T., see Patil, V. B. 519(1990)268
- Severson, R. F., see Chamberlain, W. J. 513(1990)55
- Sewell, G. W., see Chamkasem, N. 536(1991)193

- Sewell, R. F. and Brenchley, P. E. C.
Coupling of mono- and polyamino ligands to solid phases by nucleophilic attack on coupling groups that may be spontaneously hydrolysed 525(1990)246
- Seyama, Y., see Baba, S. 530(1990)1
- Seyberth, H. W., see Hesse, W. H. 533(1990)159
- Seyfried, C. A. and Tobler, P.
High-performance liquid chromatographic system for the separation of dynorphin A (1-17) fragments and its application in enzymolysis studies with rat nerve terminal membranes 529(1990)43
- Shader, R. I., see Greenblatt, D. J. 534(1990)202
- Shadrina, N. E., see Dmitrenko, A. V. 520(1990)21
- Shah, R. S., see Devani, M. B. 537(1991)494
- Shah, S., Ashraf-Khorassani, M. and Taylor, L. T.
Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293
- Shah, S. A., see Devani, M. B. 537(1991)494
- Shaligin, F. G., see Berezkin, V. G. 509(1990)85
- Shalliker, R. A., Kavanagh, P. E. and Russell, I. M.
Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157
- Shambee, M., see Ford, S. H. 537(1991)235
- Shan, Z. L., Xiao, H. and Zhu, P. L.
Measurement of limiting ionic equivalent conductance by single-column ion chromatography 535(1990)207
- Shanley, M. S., see Bailey, A. J. 512(1990)403
- Shanley, M. S., see Dutta, P. K. 512(1990)395
- Shantha, N. C. and Ackman, R. G.
Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1
- Sharknas, D. A., see Nielsen, R. G. 539(1991)177
- Sharma, P., see Gupta, K. C. 541(1991)341
- Sharman, M. and Gilbert, J.
Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220
- Sharp, P. J., McInerney, B. V., Smith, D. R. J., Turnbull, I. F., Kemp, D. H., Rand, K. N. and Cobon, G. S.
Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189
- Sharpe, A. H., see Ruprecht, R. M. 528(1990)371
- Shatz, V. D., Sahartova, O. V. and Kalvinš, I.
High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19
- Shaw, A. J. and Gescher, A.
Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402
- Shaw, A. N., see Camilleri, P. 523(1990)300
- Shaw, R. W., see Ruth, K. A. 546(1991)243
- Shayman, J. A. and Barcelon, F. S.
Ion-pair chromatography of inositol polyphosphates with N-methylimidipramine 528(1990)143
- Shchedrina, M. M., see Dubrova, M. A. 520(1990)169
- Shcherbakova, K. D., see Kovaleva, N. V. 520(1990)55
- Shefer, S., see Batta, A. K. 542(1991)184
- Shelat, B. P., see Elrod, Jr., L. 519(1990)125
- Shelly, D. C., see Wang, T. 523(1990)23
- Sheng, Y., see Lou, X. 514(1990)253
- Shepherd, M. J., see Dawkins, J. V. 550(1991)539
- Sherwood, R. A., Titheradge, A. C. and Richards, D. A.
Measurement of plasma and urine amino acids by high-performance liquid chromatography with electrochemical detection using phenylisothiocyanate derivatization 528(1990)293
- Shetty, H. U., see Greig, N. H. 534(1990)279
- Sheumack, D., see Haynes, P. A. 540(1991)177
- Shi, L., see Ye, M. 518(1990)238
- Shi, L., see Zhu, P. 511(1990)390
- Shi, Y., see Liu, W. 547(1991)509
- Shiao, M.-S., see Chyr, R. 542(1991)327
- Shibamoto, T., see Yasuhara, A. 547(1991)291
- Shibanoki, S., Weinberger, S. B., Ishikawa, K. and Martinez, Jr., J. L.
Sensitive method for measuring hydrolysis of enkephalins in plasma, using high-performance liquid chromatography with electrochemical detection 532(1990)249
- Shibanoki, S., see Imamura, Y. 526(1990)282
- Shibata, O., see Terabe, S. 516(1990)23
- Shibata, T., see Fukui, Y. 515(1990)85
- Shibata, Y., see Saitoh, K. 542(1991)351
- Shibata, Y., see Suzuki, N. 504(1990)179
- Shibukawa, M., see Knox, J. H. 545(1991)123
- Shibusawa, Y. and Ito, Y.
Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

- Shibusawa, Y., see Matsumoto, U. 504(1990)69
- Shibuya, T., see Takeda, H. 515(1990)265
- Shigematsu, Y., see Kikawa, Y. 532(1990)387
- Shih, M. L., Smith, J. R. and Salem, G. W.
High-performance liquid chromatographic
analysis of imidazolium and pyridinium
oximes in plasma and urine 527(1990)371
- Shijo, Y., see Ohashi, H. 539(1991)225
- Shilstone, G. F., see Bartle, K. D. 517(1990)459
- Shimada, S., see Maeda, M. 515(1990)329
- Shimamura, M., Ôhara, T., Imazawa, M. and
Miyamoto, K.
Purification of myelin-associated
glycoprotein from calf brain using high-
performance liquid chromatography
526(1990)535
- Shimamura, T., see Katayama, N. 519(1990)221
- Shimizu, M., see Tanaka, M. 526(1990)289
- Shimizu, T., Mihara, M. and Takeda, N.
High-performance liquid chromatography of
biogenic amines in the corpus cardiacum of
the American cockroach, *Periplaneta
americana* 539(1991)193
- Shimizu, T., see Koike, M. 526(1990)235
- Shimizu, T., see Miyagawa, F. 549(1991)400
- Shimkus, J. K., see Kononenko, V. L.
520(1990)271
- Shimoda, M., see Vree, T. B. 526(1990)119
- Shimomura, K., see Okamura, N. 542(1991)317
- Shimomura, T., see Kamisaki, Y. 529(1990)417
- Shimura, K.
Progress in affino-phoresis (Review)
510(1990)251
- Shimura, K., see Kakita, H. 543(1991)315
- Shimura, K., see Nakamura, K. 510(1990)101
- Shimura, K., see Nakamura, K. 513(1990)367
- Shinnick, F. L., see Kraus, R. J. 513(1990)71
- Shinohara, R., see Terashi, A. 503(1990)369
- Shinohara, Y., Kirii, N., Tamaoki, H., Magara,
H. and Baba, S.
Determination of the enantiomers of
suprofen and [²H₃]suprofen in plasma by
capillary gas chromatography-mass
spectrometry 525(1990)93
- Shiojima, Y., see Tanaka, N. 535(1990)13
- Shiokawa, T., see Sugiyama, K. 515(1990)555
- Shiono, H., see Akane, A. 529(1990)155
- Shiota, A., see Hirayama, N. 523(1990)257
- Shishkina, I. P., see Galushko, S. V.
511(1990)115
- Shishkina, I. P., see Galushko, S. V.
547(1991)161
- Shishoo, C. J., see Devani, M. B. 537(1991)494
- Shitara, K., see Kiba, N. 537(1991)443
- Shitara, K., see Kiba, N. 549(1991)127
- Shlyakhov, A. F., see Adamia, T. V.
540(1991)441
- Shnek, D., see Wuenschell, G. E. 543(1991)345
- Shono, T., see Chen, S.-H. 502(1990)257
- Shono, T., see Harino, H. 522(1990)107
- Shono, T., see Yasaka, Y. 508(1990)133
- Short, C. R., see Long, A. R. 502(1990)87
- Short, C. R., see Long, A. R. 505(1990)395
- Short, D. C., see Hansen, M. E. 517(1990)333
- Shoshihara, M., Kase, K., Yoshizawa, E., Takao,
M. and Fujimoto, T.
Column liquid chromatographic
determination of isepamicin in nasal cavity
using gauze 529(1990)473
- Shoto, E., see Ito, K. 549(1991)265
- Shrago, E., see Kargas, G. 526(1990)331
- Shreedhara Murthy, R. S., Crane, L. J. and
Bronnimann, C. E.
Characterization of cyano bonded silica
phases from solid-phase extraction columns.
Correlation of surface chemistry with
chromatographic behavior 542(1991)205
- Shu, H., see Xie, F. 526(1990)109
- Shuely, W. J., see Abraham, M. H.
518(1990)329
- Shukurova, K. N., see Berezkin, V. G.
509(1990)85
- Sibilia, A., see Visconti, A. 540(1991)376
- Sica, D. A., see Farthing, D. 534(1990)228
- Sieber, K. P., see Wheelock, G. D. 542(1991)508
- Sieber, R., see Bilic, N. 511(1990)359
- Siebert, C. J., see Dunn, L. 548(1991)165
- Siegel, M. R., see Fannin, F. F. 503(1990)288
- Siems, W., see Grune, T. 520(1990)411
- Siems, W., see Werner, A. 507(1990)311
- Siems, W. F., see Morrissey, M. A.
505(1990)215
- Sigalov, A.
Reversed-phase high-performance liquid
chromatographic study of the formation of
complexes of nucleotides and
oligonucleotides with Lu(III) 516(1990)456
- Sigalov, A., Alexandrovich, O. and Strizevskaya,
E.
Large-scale isolation and purification of
human apolipoproteins A-I and A-II
537(1991)464
- Silan, L., Jadaud, P., Whitfield, L. R. and
Wainer, I. W.
Determination of low levels of the
stereoisomers of leucovorin and 5-
methyltetrahydrofolate in plasma using a
coupled chiral-achiral high-performance
liquid chromatographic system with post-
chiral column peak compression
532(1990)227
- Sim, J. S., see Fenton, M. 540(1991)323
- Simay, A., see Prokai, L. 541(1991)469

- Šimek, Z., Vespalec, R. and Šubert, J.
Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475
- Simenthal, F., see Hornedo-Núñez, A. 503(1990)217
- Šimko, P., see Karovičová, J. 545(1991)413
- Simmaco, M., De Biase, D., Barra, D. and Bossa, F.
Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129
- Simmons, R. D., see Donnelly, J. R. 540(1991)293
- Simongauz, S. E., see Gavrichev, V. S. 509(1990)59
- Simpson, C. F., see Ndiomu, D. P. 505(1990)161
- Simpson, R. C., Emary, W. B., Lys, I., Cotter, R. J. and Fenselau, C. C.
High-performance liquid chromatography-time-of-flight mass spectrometry and its application to peptide analyses 536(1991)143
- Simpson, R. J., see Ward, L. D. 519(1990)199
- Sing, K. S. W., see Carrott, P. J. M. 518(1990)53
- Singh, P. P. and Kalra, R. L.
Use of low-purity solvents and reagents for analysis of residues of synthetic pyrethroid pesticides by gas chromatography with electron-capture detection 540(1991)464
- Singh, R. K. P., see Tiwari, B. B. 542(1991)537
- Singh, R. K. P., see Tiwari, B. B. 547(1991)554
- Singh, R. P., see Marvin, C. H. 518(1990)242
- Singh, S., see Epemolu, R. O. 519(1990)171
- Singhal, R. P., Ramamurthy, B., Govindraj, N. and Sarwar, Y.
New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17
- Sinniger, V., Tapon-Bretonnière, J., Zhou, F. L., Bros, A., Muller, D., Jozefonvicz, J. and Fischer, A. M.
Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289
- Sinou, D., see Lecomte, L. 514(1990)91
- Sinsheimer, J. E., see Van den Eeckhout, E. 504(1990)113
- Sinsheimer, J. E., see Van den Eeckhout, E. 541(1991)317
- Siouffi, A. M. and Volpe, N.
Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657
- Sioufi, A. and Dubois, J. P.
Chromatography of benzodiazepines 531(1990)459
- Sipahimalani, A. T., Fulzele, D. P. and Heble, M. R.
Rapid method for the detection and determination of artemisinin by gas chromatography 538(1991)452
- Sirchia, G., see Montecucchi, P. C. 512(1990)139
- Siret, L., Tambuté, A., Caude, M. and Rosset, R.
Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129
- Siret, L., see Caude, M. 550(1991)357
- Siret, L., see Tambuté, A. 541(1991)349
- Sirviö, H., see Suortti, T. 507(1990)421
- Sisson, V. E., see Chamberlain, W. J. 513(1990)55
- Sittampalam, G. S., see Nielsen, R. G. 539(1991)177
- Sivakoff, S., see Edwardson, P. A. D. 545(1991)79
- Sivonen, K., see Meriluoto, J. A. O. 509(1990)390
- Siwek, A. and Śliwiok, J.
Reversed-phase high-performance liquid chromatography in the investigation of the hydrophobicity of selected ketones 506(1990)109
- Sjöqvist, F., see Villén, T. 529(1990)309
- Sjöström, K., see Brage, C. 538(1991)303
- Skarping, G., see Dalene, M. 516(1990)405
- Skarping, G., see Tiljander, A. 511(1990)185
- Skelly, N. E., Barr, S. W. and Zelinko, A. P.
Computer assisted internal standard selection for reversed-phase liquid chromatography 535(1990)199
- Skidmore, G. L. and Chase, H. A.
Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329
- Sklenářová, S. and Tichá, M.
Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365
- Sköld, A., see Kågedal, L. 537(1991)17
- Skowroński, R., see Kotyński, A. 516(1990)467
- Skvortsov, A. M. and Gorbunov, A. A.
Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487
- Skvortsov, A. M., see Tennikov, M. B. 509(1990)219
- Slacanin, I., see Vallat, P. 504(1990)411

- Šlais, K.
 Simultaneous conductivity and potentiometric detector for miniaturized liquid chromatography and flow analysis 540(1991)41
- Šlais, K., see Šalamoun, J. 522(1990)205
- Šlais, K., see Šalamoun, J. 537(1991)249
- Slangen, C. J., see Visser, S. 548(1991)361
- Sleijfer, D. T., see Dikkeschei, L. D. 529(1990)145
- Slemp, J. L., see Ito, Y. 538(1991)81
- Slingerland, R. J., Adámek, V. and Scouten, W. H.
 Centrifugal affinity chromatography 510(1990)205
- Śliwiok, J., see Siwek, A. 506(1990)109
- Śliwka, I., see Grochowalski, A. 502(1990)160
- Śliwka, I., see Lasa, J. 509(1990)115
- Slonina, P. and Seidel, A.
 Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167
- Sluiterman, L. A. and Kooistra, C.
 Change of counter ion concentration and of resolving power in a chromatofocusing run 519(1990)217
- Sly, L. A., see Annable, P. L. 546(1991)325
- Small, H.
 Twenty years of ion chromatography (Review) 546(1991)3
- Smart, A. U., see Lindsay Smith, J. R. 547(1991)447
- Šmidl, P., Kleinmann, I., Plicka, J. and Svoboda, V.
 Hydrophobic interaction chromatography of proteins on Separon HEMA. II. Influence of sorbent modification on efficiency of separation 523(1990)131
- Šmidl, P., see Plicka, J. 523(1990)139
- Smettan, D., see Krause, E. 520(1990)263
- Šmid, F., see Bradová, V. 533(1990)297
- Smilde, A. K., see Coenegracht, P. M. J. 550(1991)397
- Smit, D., see Burger, B. V. 518(1990)207
- Smit, H. C.
 Computerized multiple input chromatography (by M. Kaljurand and E. Küllik) (Book Review) 504(1990)471
- Smit, H. C., see Engelsma, M. 506(1990)201
- Smith, B. and Warwick, P.
 Analysis of fulvic acids by ion-pair chromatography 547(1991)203
- Smith, B. F., see Gatrone, R. C. 516(1990)395
- Smith, C. V., see Lockemeyer, M. R. 532(1990)162
- Smith, D. R. J., see Sharp, P. J. 512(1990)189
- Smith, D. W., see Dutta, I. 536(1991)237
- Smith, J. R., see Shih, M. L. 527(1990)371
- Smith, N. W., see Altria, K. D. 538(1991)506
- Smith, R. D.
 Continuous-flow fast atom bombardment mass spectrometry (edited by R. M. Caprioli) (Book Review) 542(1991)547
- Smith, R. D., Loo, J. A., Edmonds, C. G., Barinaga, C. J. and Udseth, H. R.
 Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157
- Smith, R. D., see Jones, H. K. 504(1990)1
- Smith, R. D., see Yonker, C. R. 505(1990)139
- Smith, R. D., see Yonker, C. R. 517(1990)573
- Smith, R. D., see Yonker, C. R. 550(1991)775
- Smith, R. E.
 Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369
- Smith, R. G., Drake, P. A. and Lamb, J. D.
 Temperature programming in macrocycle-based ion chromatography 546(1991)139
- Smith, R. G., see Lamb, J. D. 546(1991)73
- Smith, R. M. and Burr, C. M.
 Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. VI. Disubstituted aromatic compounds 550(1991)335
- Smith, R. M. and Finn, N.
 Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51
- Smith, R. M. and Sanagi, M. M.
 Retention and selectivity in supercritical fluid chromatography on an octadecylsilyl-silica column 505(1990)147
- Smith, R. M., Westlake, J. P., Gill, R. and Osselton, M. D.
 Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97
- Smolders, E., Van Dael, M. and Merckx, R.
 Simultaneous determination of extractable sulphate and malate in plant extracts using ion chromatography 514(1990)371
- Smolenski, R. T., Lachno, D. R., Ledingham, S. J. M. and Yacoub, M. H.
 Determination of sixteen nucleotides, nucleosides and bases using high-

- performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414
- Smlková-Keulemansová, E., see Felzl, L. 520(1990)105
- Smyth, J. F., see Cummings, J. 528(1990)43
- Smyth, M. R., see Kelly, M. T. 528(1990)277
- Smyth, M. R., see Turley, D. J. 513(1990)263
- Snowdon, K. L., see Lacey, E. 525(1990)71
- Snyder, F., see Blank, M. L. 508(1990)382
- Snyder, J. M., see France, J. E. 540(1991)271
- Snyder, L. R., Bautz, D. E. and Dolan, J. W.
Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35
- Snyder, L. R. and Cox, G. B.
Influence of pressure on the maximum production rate in preparative liquid chromatography. Reply to the letter of S. Golshan-Shirazi and G. Guiochon 511(1990)404
- Snyder, L. R. and Cox, G. B.
Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography. A reply 537(1991)507
- Snyder, L. R., Dolan, J. W. and Cox, G. B.
Preparative high-performance liquid chromatography based on reversed-phase gradient elution. Optimum experimental conditions for heavily overloaded separation 540(1991)21
- Snyder, L. R., Dolan, J. W. and Lommen, D. C.
High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75
- Snyder, L. R., see Bautz, D. E. 541(1991)1
- Snyder, L. R., see Dolan, J. W. 535(1990)55
- Snyder, L. R., see Dolan, J. W. 541(1991)21
- Soczewiński, E., see Dzido, T. H. 516(1990)461
- Soczewiński, E., see Dzido, T. H. 550(1991)71
- Soczewiński, E., see Markowski, W. 523(1990)81
- Søeberg, H., see Vinther, A. 516(1990)175
- Soeishi, Y., Kobori, M., Kobayashi, S.-I. and Higuchi, S.
Sensitive method for the determination of amsulosin in human plasma using high-performance liquid chromatography with fluorescence detection 533(1990)291
- Soják, L., Ostrovský, I., Kubinec, R., Kraus, G. and Kraus, A.
High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93
- Soják, L., Ostrovský, I., Kubinec, R., Kraus, G. and Kraus, A.
High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75
- Sokolić, M., Filipović, B. and Pokorny, M.
High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189
- Sokoloski, E. A., see Cahnmann, H. J. 538(1991)165
- Sokolov, M. Y., see Řezanka, T. 508(1990)275
- Sokolowski, A., see Fornstedt, T. 506(1990)61
- Sokolowski, A., see Fornstedt, T. 535(1990)93
- Sollenberg, J.
Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369
- Sollenberg, J., see Beving, H. 532(1990)45
- Solomon, B., Hadas, E., Koppel, R., Schwartz, F. and Fleminger, G.
Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335
- Solomon, B., Koppel, R., Schwartz, F. and Fleminger, G.
Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321
- Solomon, B., see Fleminger, G. 510(1990)271
- Solomon, B., see Fleminger, G. 510(1990)311
- Soloshonok, V. A., see Galushko, S. V. 511(1990)115
- Šoltés, L., see Horváthová, M. 509(1990)213
- Someya, K., see Kinoshita, M. 529(1990)462
- Somlyo, B., Kovats, E., Keler, T. and Nowotny, A.
Column liquid chromatography of endotoxins 525(1990)329
- Soncrant, T. T., see Deutsch, J. 528(1990)325
- Soncrant, T. T., see Greig, N. H. 534(1990)279
- Soncrant, T. T., see Phelan, D. G. 533(1990)264
- Søndergaard, I., Falagiani, P., Bolzacchini, E., Civaroli, P., Di Gregorio, G., Madonini, V., Morelli, A. and Rindone, B.
Ion-exchange high-performance liquid chromatographic isolation of the major allergen of parietaria pollen extract 512(1990)115
- Søndergaard, I., see Bolzacchini, E. 542(1991)337
- Søndergaard, I., see Bolzacchini, E. 548(1991)229

- Song, H., Strubinger, J. R. and Parcher, J. F.
Tracer pulse chromatographic method for
the determination of nitrogen BET isotherms
and surface areas 518(1990)319
- Song, Y.-B., see Hu, O. Y.-P. 532(1990)337
- Soni, K. P., see Devani, M. B. 537(1991)494
- Soomägi, M., see Svensson, C. 529(1990)229
- Soons, P. A., Roosemalen, M. C. M. and
Breimer, D. D.
Enantioselective determination of felodipine
and other chiral dihydropyridine calcium
entry blockers in human plasma
528(1990)343
- Sørensen, H. H., see Vinther, A. 516(1990)175
- Sørensen, H. H., see Welinder, B. S.
537(1991)181
- Sorensen, L. R., see Scott, D. O. 506(1990)461
- Sorenson, S. C., see Schramm, J. 538(1991)241
- Soria, V., see Perez-Paya, E. 548(1991)93
- Sorokina, E. Y., see Berezkin, V. G. 509(1990)85
- Sosimenko, A. D. and Haddad, P. R.
Computer optimization in ion
chromatography. II. A systematic evaluation
of linear retention models for anions
546(1991)37
- Soubeyrand, J., see Scappaticci, B. 534(1990)57
- Souhodolova, V. I., see Berezkina, L. G.
520(1990)157
- Soutschek, E., Höflacher, B. and Motz, M.
Purification of a recombinantly produced
transmembrane protein (gp41) of HIV I
521(1990)267
- Sovocool, G. W., see Donnelly, J. R.
540(1991)293
- Spahn, H., see Langguth, P. 528(1990)55
- Spahn, H., see Schaefer, H. G. 527(1990)351
- Spanedda, L., see Cabras, P. 505(1990)413
- Spanedda, L., see Cabras, P. 540(1991)406
- Sparidans, R. W., Claessens, H. A., Van
Doremale, G. H. J. and Van Herk, A. M.
Analysis of poly(styrene-co-methyl acrylate)
and poly(styrene-co-butyl acrylate) by
high-performance liquid chromatography
508(1990)319
- Speirs, R. J. and Boyer, G. L.
Analysis of ⁵⁵Fe-labeled hydroxamate
siderophores by high-performance liquid
chromatography 537(1991)259
- Spennetta, T., see Kargas, G. 526(1990)331
- Sperling, A.
Determination of heroin and some common
adulterants by capillary gas
chromatography 538(1991)269
- Spiekermann, M., see Feltes, J. 518(1990)21
- Spierdijk, J., see Vletter, A. A. 530(1990)177
- Spinazzola, J., see Rop, P. P. 532(1990)351
- Spinetti, M., see Raspi, G. 525(1990)426
- Spiteller, G., see Knörr, W. 526(1990)303
- Sportes, N., see Herve, F. 539(1991)405
- Spreen, R. C., see Meyer, J. C. 522(1990)213
- Spreux-Varoquaux, O., see Dutot, C.
528(1990)435
- Springston, S. R.
Cryogenic-focusing, ohmically heated on-
column trap for capillary gas
chromatography 517(1990)67
- Sprovieri, C., see Grossi, G. 541(1991)273
- Sprovieri, G., see Grossi, G. 541(1991)273
- Spustová, V., see Lajdová, I. 528(1990)178
- Srinivas, N. R., Hubbard, J. W. and Midha, K.
K.
Enantioselective gas chromatographic assay
with electron-capture detection for *dl*-
ritalinic acid in plasma 530(1990)327
- Sri Widada, J., see Ferraz, C. 539(1991)465
- Staal, W., see Jackson, P. E. 546(1991)405
- Stacks, P. C., Mazrimas, J. A., Corzett, M. and
Balhorn, R.
Reactivity and adduct formation of a
polyaromatic hydrocarbon, 7-
bromomethylbenz[*a*]anthracene, with
chromatin histone proteins 528(1990)25
- Stafford, A. E., see Lin, J.-T. 543(1991)471
- Ståhlberg, J., see Bartha, A. 506(1990)85
- Ståhlberg, J., see Bartha, Á. 535(1990)181
- Stahle, P. L., see Greig, N. H. 534(1990)279
- Stalcup, A. M., Chang, S.-C. and Armstrong, D.
W.
Effect of the configuration of the
substituents of derivatized β -cyclodextrin
bonded phases on enantioselectivity in
normal-phase liquid chromatography
540(1991)113
- Stalcup, A. M., Chang, S.-C., Armstrong, D. W.
and Pitha, J.
(*S*)-2-Hydroxypropyl- β -cyclodextrin, a new
chiral stationary phase for reversed-phase
liquid chromatography 513(1990)181
- Stancato, F. A., see Knupp, C. A. 533(1990)282
- Staniewski, J. and Szymanowski, J.
Gas chromatographic analyses of
hydroxyoxime extractants of metals and
their intermediates. I. Alkylsalicylaldehyde
oximes 503(1990)442
- Stankiewicz, T., see Sybilka, D. 543(1991)397
- Staroverov, S. M. and Fadeev, A. Y.
Apparent simplicity of reversed stationary
phases for high-performance liquid
chromatography (Review) 544(1991)77
- Startin, J. R., see Perkins, J. R. 540(1991)239
- Startin, J. R., see Perkins, J. R. 540(1991)257
- Starzyński, S., see Masłowska, J. 502(1990)221
- Staszczak, M., see Łoborzewski, J. 520(1990)223

- Statler, J. A.
Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244
- Staudenbauer, W. L., see Bronnenmeier, K. 521(1990)301
- Stauffer, D. M., see Coleman, P. L. 512(1990)345
- Stead, C. V., see Burton, S. J. 508(1990)109
- Steegers-Theunissen, R. P. M., see Vree, T. B. 526(1990)581
- Steenbergen, J., see Flapper, W. 533(1990)47
- Steffens, G. C. M., Pascual, E. and Buse, G.
Rapid purification of cytochrome *c* oxidase from *Paracoccus denitrificans* 521(1990)291
- Steffens, G. L., see Lin, J.-T. 543(1991)471
- Steghuis, D. S., Irth, H., Tjaden, U. R. and Van der Greef, J.
Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393
- Steghuis, D. S., Tjaden, U. R., Van den Beld, C. M. B. and Van der Greef, J.
Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185
- Steghuis, D. S., Tjaden, U. R. and Van der Greef, J.
Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137
- Stegeman, G., Kraak, J. C. and Poppe, H.
Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721
- Stegeman, G., Oostervink, R., Kraak, J. C., Poppe, H. and Unger, K. K.
Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547
- Steger, M., see Kees, F. 525(1990)484
- Stehlík, P. and Houbová, H.
Determination of metazosin in biological fluids by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)245
- Stehlík, P. and Houbová, H.
Determination of mepamil in human plasma by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)251
- Stein, J., see Hahn, A. 540(1991)207
- Stein, T. A., Burns, G. P., Bailey, B. and Wise, L.
Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259
- Steinborn, A., see Maurer, T. 517(1990)77
- Steindl, F., see Jungbauer, A. 512(1990)157
- Steiner, V., Knecht, R., Gruetter, M., Raschdorf, F., Gassmann, E. and Maschler, R.
Isolation and purification of novel hirudins from the leech *Hirudinaria manillensis* by high-performance liquid chromatography 530(1990)273
- Steinhanses, J. and Schoene, K.
Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273
- Steinhanses, J., see Schoene, K. 514(1990)279
- Steinmetz, A., see Hocke, G. 526(1990)203
- Stephen, A. M., see Churms, S. C. 550(1991)519
- Stephens, L. D. G., see Lowe, C. R. 510(1990)347
- Stephenson, J. R., see Crooks, A. J. 502(1990)59
- Steuer, W., Grant, I. and Erni, F.
Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis 507(1990)125
- Stevens, R. C., see Laizure, S. C. 528(1990)235
- Stevenson, P. J., Hauksdottir, R., Kadaba, P. K. and Damani, L. A.
Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248
- Stewart, C. F., see Fleming, R. A. 528(1990)517
- Stewart, D. J., Purvis, D. R. and Lowe, C. R.
Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177
- Stewart, J. T., see Arrendale, R. F. 518(1990)307
- Stewart, J. T., see Lampert, B. M. 504(1990)381
- Sticher, O., see Hasler, A. 508(1990)236
- Sticher, O., see Nyiredy, S. 523(1990)43
- Stief, C., see Eppert, G. 508(1990)149
- Stigbrand, T., see Birkenmeier, G. 539(1991)267
- Stillian, J., see Campbell, D. L. 546(1991)229
- Stobaugh, J. F., see Patel, H. B. 536(1991)357
- Stobiecki, M. and Wojtaszek, P.
Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391
- Stocchi, F., see Lucarelli, C. 511(1990)167

- Stöcker, G. and Fischer, D.-C.
Isolation and characterization of proteoglycans from different tissues 521(1990)311
- Stodola, J. D. and Hartman, P. A.
Estimation of molecular isomer ratios of palmitycin sodium (U-70,138F) by gas chromatography 502(1990)401
- Stoev, G. and Velichkov, A.
Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431
- Stöffler, G., see Baier, G. 525(1990)319
- Stolyarov, B. V., Katsanos, N. A., Agathonos, P. and Kapolos, J.
Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181
- Stout, R. W., see Edwardson, P. A. D. 545(1991)79
- Stout, S. J. and DaCunha, A. R.
Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429
- Straczek, J., Heulin, M. H., Chenut, A. M., Belleville, F., Nabet, P., Denoroy, L., Barenton, B., Blanchard, M., Charrier, J. and Martal, J.
Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35
- Straczek, J., Heulin, M. H., Chenut, A. M., Lasbennes, A., Geschier, C., Belleville, F. and Nabet, P.
Purification and characterization of three molecular forms of insulin-like growth factor II from human Cohn paste IV 532(1990)237
- Straka, R. J., Johnson, K. A., Marshall, P. S. and Remmel, R. P.
Analysis of metoprolol enantiomers in human serum by liquid chromatography on a cellulose-based chiral stationary phase 530(1990)83
- Strange, R. N., see Edwards, C. 547(1991)185
- Strasburg, R. F., Fritz, J. S. and Naples, J. O.
Low-capacity latex-coated resins for anion chromatography 547(1991)11
- Strasters, J. K., Breyer, E. D., Rodgers, A. H. and Khaledi, M. G.
Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17
- Stratford, M. R. L., Watfa, R. R., Murray, J. C. and Martin, S. G.
Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383
- Stratilová, E., see Mislovičová, D. 510(1990)197
- Stribling, R.
High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474
- Strizevskaya, E., see Sigalov, A. 537(1991)464
- Stroka, R., see Paul, B. D. 529(1990)103
- Strömqvist, M., Holgersson, J. and Samuelsson, B.
Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293
- Strong, D. L., Joung, C. U. and Dasgupta, P. K.
Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159
- Strongoli, M. C., see Corasaniti, M. T. 527(1990)189
- Stroz, D., see Morgan, D. 502(1990)351
- Strubinger, J. R., see Song, H. 518(1990)319
- Struzinsky, R., see Deyl, Z. 516(1990)287
- Stuart, J. D. and Lisi, D. D.
Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77
- Štubňa, M., see Brandšterová, E. 545(1991)205
- Stuff, J. R.
Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484
- Stuff, J. R., see Gavlick, W. K. 508(1990)187
- Štulík, K., see Heping, W. 519(1990)244
- Štulík, K., see Pacáková, V. 520(1990)349
- Štulík, K., see Wang, H. 509(1990)245
- Stupar, J. and Frech, W.
Ultrasonic nebulizer interface system for coupling liquid chromatography and electrothermal atomic absorption spectrometry 541(1991)243
- Stuting, H. H. and Krull, I. S.
Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91
- Stuting, H. H., see Mhatre, R. 502(1990)21
- Suann, C. J., see Duffield, A. M. 518(1990)215
- Šubert, J., see Šimek, Z. 543(1991)475
- Subosa, P. F., see Rokushika, S. 514(1990)355

- Subra, P. and Boissinot, P.
Supercritical fluid extraction from a brown alga by stagewise pressure increase 543(1991)413
- Subrahmanyam, M., see Husain, S. 513(1990)83
- Suckow, R. F., Cooper, T. B. and Kahn, R. S.
High-performance liquid chromatographic method for the analysis of plasma *m*-chlorophenylpiperazine 528(1990)228
- Sudo, A.
Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid 528(1990)453
- Sudo, M., see Kikawa, Y. 532(1990)387
- Sudo, Y., see Fujii, J. 530(1990)469
- Sudor, J., Pospíchal, J., Deml, M. and Boček, P.
Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331
- Suemitsu, R., Horiuchi, K., Ohnishi, K., Hidaka, T. and Horiuchi, M.
High-performance liquid chromatographic determination of tentoxin in fermentation of *Alternaria porri* (Ellis) Ciferri 539(1991)211
- Suemitsu, R., Horiuchi, K., Ohnishi, K. and Kubota, M.
High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282
- Suetsugu, K., see Nakashima, K. 530(1990)154
- Suffet, I. H., see Schnable, J. G. 513(1990)47
- Suffet, I. H., see Schnable, J. G. 549(1991)335
- Sugahara, K., see Kodama, H. 527(1990)279
- Sugahara, T., see Takamura, K. 543(1991)241
- Sugahara, T., see Takamura, K. 545(1991)201
- Sugano, H., see Hiranuma, T. 515(1990)399
- Sugii, A. and Harada, K.
Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219
- Sugii, A., see Nishimura, K. 525(1990)176
- Sugimoto, S., Yamaguchi, K. and Yokoo, Y.
Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 515(1990)483
- Sugimoto, S., Yamaguchi, K. and Yokoo, Y.
Characterization of recombinant eel growth hormone 547(1991)131
- Sugiro, T., see Verbesselt, R. 526(1990)515
- Sugiyama, K., Shiokawa, T. and Moriya, T.
Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555
- Sugiyanto, Holder, G. M. and Ryan, A. J.
High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337
- Suhonen, P., see Ylinen, M. 505(1990)429
- Sumpter, S. R., Woolley, C. L., Huang, E. C., Markides, K. E. and Lee, M. L.
Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503
- Sun, H., see Volland, C. 534(1990)127
- Sun, J. J. and Fritz, J. S.
Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95
- Sun, K., see Hu, H. 547(1991)494
- Sun, Q., see Mou, S. 546(1991)289
- Sun, Z.-P., see Zhou, Y. 508(1990)220
- Sunahara, H., see Ito, K. 502(1990)121
- Sunahara, H., see Ito, K. 549(1991)265
- Sunter, D. C., see Udvarhelyi, P. M. 519(1990)69
- Sunzeri, F. J., see Brownlee, R. G. 533(1990)87
- Suortti, T.
Determination of phenol in poly(vinyl chloride) 507(1990)417
- Suortti, T. and Pessa, E.
Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251
- Suortti, T. and Sirviö, H.
Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421
- Sur, L. I., see Sur, S. V. 542(1991)451
- Sur, S. V., Tuljupa, F. M. and Sur, L. I.
Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451
- Susic, M. and Armstrong, L. G.
High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443
- Šustáček, V., Foret, F. and Boček, P.
Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239
- Suttmar, J., see Fořtová, H. 523(1990)312
- Suzuki, K. and Nakazato, K.
Effect of composition of polyacrylamide gels on exclusion limits 535(1990)173
- Suzuki, K., see Honda, S. 515(1990)653
- Suzuki, M., see Harada, K.-I. 538(1991)203

- Suzuki, M., see Hoshino, T. 515(1990)531
 Suzuki, M., see Ikai, Y. 541(1991)393
 Suzuki, M., see Oka, H. 538(1991)149
 Suzuki, M., see Oka, H. 538(1991)213
 Suzuki, N., Saitoh, K. and Shibata, Y.
 High-performance thin-layer
 chromatography of rare earth
 tetraphenylporphine complexes
 504(1990)179
 Suzuki, N., see Saitoh, K. 542(1991)351
 Suzuki, N., see Tsukahara, S. 547(1991)225
 Suzuki, O., see Hattori, H. 529(1990)189
 Suzuki, S., Kobayashi, K., Noda, J., Suzuki, T.
 and Takama, K.
 Simultaneous determination of biogenic
 amines by reversed-phase high-performance
 liquid chromatography 508(1990)225
 Suzuki, S., see Honda, S. 523(1990)189
 Suzuki, S., see Ikeda, K. 513(1990)321
 Suzuki, S., see Kakehi, K. 502(1990)297
 Suzuki, S., see Oka, H. 538(1991)149
 Suzuki, T. and Watanabe, S.
 Screening method for phenoxy acid
 herbicides in ground water by high-
 performance liquid chromatography of
 9-anthryldiazomethane derivatives and
 fluorescence detection 541(1991)359
 Suzuki, T., see Suzuki, S. 508(1990)225
 Suzuki, T., see Takagi, T. 519(1990)237
 Suzuki, Y., see Tani, K. 515(1990)159
 Švec, F., see Hradil, J. 509(1990)369
 Švec, F., see Tennikova, T. B. 509(1990)233
 Svensson, C., Nyberg, G., Soomägi, M. and
 Mårtensson, E.
 Determination of the serum concentrations
 of thioridazine and its main metabolites
 using a solid-phase extraction technique and
 high-performance liquid chromatography
 529(1990)229
 Svensson, J.-O. and Jonzon, B.
 Determination of adenosine and cyclic
 adenosine monophosphate in urine using
 solid-phase extraction and high-performance
 liquid chromatography with fluorimetric
 detection 529(1990)437
 Svensson, L., see Wretensjö, I. 521(1990)89
 Svensson, M. and Gröningsson, K.
 Liquid chromatographic determination of
 felypressin using a column-switching
 technique and post-column derivatization
 521(1990)141
 Sverguzova, S. V., see Balyatinskaya, L. N.
 509(1990)107
 Svitel'sky, W. P., see Kal'chenko, O. I.
 509(1990)65
 Svoboda, M. and Musil, S.
 Speciation of polyhydroxy compounds by
 gas chromatography-mass spectrometry with
 deuterium oxide chemical ionization
 520(1990)209
 Svoboda, V.
 Multi-component elution overload
 chromatography of compounds with S-
 shaped isotherms. A theoretical study
 518(1990)77
 Svoboda, V., see Plicka, J. 523(1990)139
 Svoboda, V., see Šmidl, P. 523(1990)131
 Swadesh, J. K.
 Tryptic fingerprinting on a poly(styrene-
 divinylbenzene) reversed-phase column
 512(1990)315
 Swadesh, J. K., Huang, I.-Y. and Budzynski, A.
 Z.
 Purification and characterization of
 hementin, a fibrinogenolytic protease from
 the leech *Haementeria ghilianii*
 502(1990)359
 Swadesh, J. K., see Perfetti, T. A. 543(1991)129
 Swami, G. Y. S. K., see Husain, S. 540(1991)331
 Swart, P. J., Drenth, B. F. H. and De Zeeuw, R.
 A.
 Reversed-phase liquid chromatographic
 method with amperometric detection for the
 determination of the dopamine agonist
 2-(N-propyl-N-2-thienylethylamino)-5-
 hydroxytetralin (N-0437) in human plasma
 and urine 528(1990)464
 Swedberg, S. A.
 Use of non-ionic and zwitterionic surfactants
 to enhance selectivity in high-performance
 capillary electrophoresis. An apparent
 micellar electrokinetic capillary
 chromatography mechanism 503(1990)449
 Sweeney, P. J., Walker, J. M., Reid, D. G. and
 Elshourbagy, N.
 Purification of cloned trypanosomal
 calmodulin and preliminary NMR studies
 539(1991)501
 Swerdlow, H., Wu, S., Harke, H. and Dovichi, N.
 J.
 Capillary gel electrophoresis for DNA
 sequencing. Laser-induced fluorescence
 detection with the sheath flow cuvette
 516(1990)61
 Swift, R. M., see DePetrillo, P. B. 527(1990)421
 Switzer, B. S., see Pfannkoch, E. A.
 503(1990)385
 Sybilska, D., Kowalczyk, J., Asztemborska, M.,
 Stankiewicz, T. and Jurczak, J.
 Chromatographic analysis of some
 commercial samples of camphene via
 cyclodextrin inclusion processes
 543(1991)397
 Sybilska, D., see Ochocka, R. J. 543(1991)171
 Sybilska, D., see Ossicini, L. 547(1991)283

- Synovec, R. E., see Renn, C. N. 536(1991)289
- Szabó, G., see Csató, E. 511(1990)79
- Szabo, G. K., Pylilo, R. J., Davoudi, H. and Browne, T. R.
Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine by high-performance liquid chromatography 535(1990)279
- Szabo, G. K., Pylilo, R. J., Perchalski, R. J. and Browne, T. R.
Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271
- Szabo, I., see Wiley, D. M. 533(1990)73
- Szanto, J. I., see Veress, T. 520(1990)339
- Szász, G., see Papp, O. 537(1991)365
- Szász, G., see Papp, O. 537(1991)371
- Szász, G., see Papp, O. 537(1991)377
- Szathmary, S. C., see Luhmann, I. 532(1990)150
- Szejtli, J., see Cserhati, T. 509(1990)255
- Székely, G., see Zeller, M. 545(1991)421
- Szemző, A., see Valkó, K. 506(1990)35
- Szepesi, G. and Valkó, K.
Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach 550(1991)87
- Szinai, I., see Ganzler, K. 520(1990)257
- Szogyi, M., see Cserhati, T. 509(1990)255
- Szögyi, M., see Cserhati, T. 520(1990)249
- Szöke, B., Kéri, G., Idei, M., Horváth, A., Bökönyi, G. and Teplán, I.
Investigation of the chemical stability of (*o*-Phe⁶, Gln⁸) GnRH (1-9)-ethylamide (Folligen) by high-performance liquid chromatography 547(1991)121
- Szokoli, F., see Inczédy, J. 508(1990)309
- Szulc, J., see Witkiewicz, Z. 503(1990)293
- Szymanowski, J., Kusz, P. and Dziwiński, E.
Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325
- Szymanowski, J., Kusz, P., Dziwiński, E. and Latocha, C.
Degradation and analysis of oligoxyethylene glycol mono(4-*tert*-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407
- Szymanowski, J., see Staniewski, J. 503(1990)442
- T**
- Tabuchi, F., see Tatsuhara, T. 526(1990)507
- Taccard, G., see Bouis, P. 526(1990)447
- Taccheo-Barbina, M., see De Paoli, M. 547(1991)355
- Tachizawa, H., see Matsubayashi, K. 515(1990)547
- Taenaka, N., see Hosotsubo, K. K. 529(1990)223
- Tagari, P., see Nicoll-Griffith, D. 526(1990)341
- Tagawa, K., Ueki, T., Mizobe, M., Noda, K. and Samejima, M.
Determination of denopamine in human and dog plasma by high-performance liquid chromatography with electrochemical detection 529(1990)500
- Tagliaro, F., Carli, G., Dorizzi, R. and Marigo, M.
Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253
- Tahara, R., see Morishima, K. 527(1990)381
- Tajovská, P., see Feltl, L. 520(1990)105
- Takada, K., Oh-Hashi, M., Yoshikawa, H., Muranishi, S., Nishiyama, M., Yoshida, H., Hata, T. and Tanaka, H.
Determination of a novel potent immunosuppressant (FK-506) in rat serum and lymph by high-performance liquid chromatography with chemiluminescence detection 530(1990)212
- Takagi, T.
Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409
- Takagi, T. and Suzuki, T.
Enantiomer separation of diacid-diacylglycerol mixtures by high-performance liquid chromatography on a chiral column 519(1990)237
- Takagi, T., see Harada, M. 527(1990)158
- Takagi, T., see Lundahl, P. 518(1990)111
- Takagi, T., see Sato, Y. 507(1990)25
- Takahashi, H., Tamura, A., Ogata, H. and Masuhara, K.
Simultaneous determination of disopyramide and its mono-N-dealkylated metabolite enantiomers in human plasma and urine by

- enantioselective high-performance liquid chromatography 529(1990)347
- Takahashi, K., see Kamisaki, Y. 529(1990)417
- Takahashi, K., see Knight, M. 538(1991)141
- Takahashi, N., see Kouno, Y. 515(1990)321
- Takahashi, S., see Akane, A. 529(1990)155
- Takahashi, S., see Kinoshita, M. 529(1990)462
- Takahashi, T., see Kinoshita, M. 529(1990)462
- Takahashi, Y., see Hoshino, T. 515(1990)531
- Takahashi, Y., see Usui, H. 515(1990)375
- Takahata, Y., see Fujii, J. 530(1990)469
- Takai, N., see Kanazawa, H. 507(1990)327
- Takai, N., see Kanazawa, H. 537(1991)469
- Takai, N., see Sakuma, I. 506(1990)223
- Takakuwa, T., see Kurosu, Y. 515(1990)407
- Takama, K., see Suzuki, S. 508(1990)225
- Takamura, K., Hoshino, H., Harima, N., Sugahara, T. and Amano, H.
Identification of vitamin D₂ by thermospray-interface mass spectrometry 543(1991)241
- Takamura, K., Hoshino, H., Sugahara, T. and Amano, H.
Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201
- Takano, S., see Kondoh, Y. 541(1991)431
- Takao, M., see Shoshihara, M. 529(1990)473
- Takao, N., see Yamagami, C. 514(1990)123
- Takao, Y., see Kamisaki, Y. 529(1990)417
- Takashima, E., see Hattori, H. 529(1990)189
- Takata, Y., see Kiba, N. 537(1991)443
- Takata, Y., see Kiba, N. 549(1991)127
- Takatsuki, K.
Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259
- Takatsuki, K. and Kikuchi, T.
Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection 508(1990)357
- Takatsuto, S., see Gamoh, K. 515(1990)227
- Takayama, K., see Kargas, G. 526(1990)331
- Takayama, N., see Hayakawa, K. 515(1990)459
- Takayama, Y., Takeichi, T., Kawai, S. and Morikawa, M.
Behaviours of siloxane polymers containing phenyl or silarylene as stationary phases for high-temperature gas chromatography 514(1990)259
- Takayama, Y., see Koh, S. 549(1991)434
- Takeba, K., Maruyama, T., Matsumoto, M. and Nakazawa, H.
Determination of tyramine in cheese by reversed-phase high-performance liquid chromatography with amperometric detection 504(1990)441
- Takechi, T., Wakiguchi, H., Kurashige, T., Kikkawa, K. and Kodama, H.
Determination of orotic acid in urine and serum by isotachophoretic analysis 532(1990)144
- Takeda, H., Matsumiya, T. and Shibuya, T.
Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265
- Takeda, N., see Shimizu, T. 539(1991)193
- Takeda, S., Ono, H., Wakui, Y., Asami, A., Matsuzaki, Y., Sasaki, H., Aburada, M. and Hosoya, E.
Determination of glycyrrhetic acid in human serum by high-performance liquid chromatography with ultraviolet detection 530(1990)447
- Takei, S., see Naito, K. 503(1990)25
- Takeichi, T., see Takayama, Y. 514(1990)259
- Takeshima, S., see Kito, M. 528(1990)91
- Takeshima, S., see Yoshida, S. 530(1990)57
- Takeuchi, M. and Saito, T.
Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629
- Takeuchi, T., Hu, W., Haraguchi, H. and Ishii, D.
Evaluation of the stability of polymer-coated silica-based packing materials for high-performance liquid chromatography 517(1990)257
- Takeuchi, T., Kabasawa, Y. and Tanimura, T.
Continuous separation of lanthanides by counter-current fractional extraction 538(1991)125
- Takeuchi, T., see Yamazaki, S. 540(1991)169
- Takitani, S., see Ohta, T. 543(1991)59
- Talmadge, K. W., see Dunn, L. 548(1991)165
- Tamaoki, H., see Shinohara, Y. 525(1990)93
- Tambe, A. S., see Ayyangar, N. R. 543(1991)179
- Tambe, A. S., see Ayyangar, N. R. 547(1991)538
- Tambuté, A., Siret, L., Caude, M. and Rosset, R.
Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349
- Tambuté, A., see Caude, M. 550(1991)357
- Tambuté, A., see Siret, L. 540(1991)129
- Tammilehto, S., see Ulvi, V. 507(1990)151
- Tamura, A., see Takahashi, H. 529(1990)347
- Tamura, Y., see Ohtani, T. 515(1990)175
- Tan, S. T. and Boniface, P. J.
High-performance liquid chromatography of droperidol in whole blood 532(1990)181
- Tanabe, H., see Hori, S. 515(1990)611

- Tanaka, A., see Kawasaki, N. 503(1990)237
- Tanaka, H., see Takada, K. 530(1990)212
- Tanaka, M., Shimizu, M. and Tsujimoto, Y.
High-performance liquid chromatographic determination of urinary mercapturic acids in rat 526(1990)289
- Tanaka, M., see Chen, S.-H. 502(1990)257
- Tanaka, M., see Harino, H. 522(1990)107
- Tanaka, M., see Yasaka, Y. 508(1990)133
- Tanaka, N., Kimata, K., Araki, T., Tsuchiya, H. and Hashizume, K.
Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319
- Tanaka, N., Kimata, K., Mikawa, Y., Hosoya, K., Araki, T., Ohtsu, Y., Shiojima, Y., Tsuboi, R. and Tsuchiya, H.
Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13
- Tanaka, N., Tanigawa, T., Kimata, K., Hosoya, K. and Araki, T.
Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29
- Tanaka, N., see Kimata, K. 515(1990)73
- Tanaka, N., see Terabe, S. 516(1990)23
- Tanaka, S., Kaneta, T., Nishimura, K. and Yoshida, H.
Capillary tube isotachophoretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475
- Tanaka, S., Kaneta, T., Yoshida, H. and Ohtaka, H.
Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158
- Tanaka, S., see Kaneta, T. 538(1991)385
- Tanaka, Y., see Kinoshita, M. 529(1990)462
- Tang, J. Y., see Agrawal, S. 509(1990)396
- Tangoren, I. A., see Otvos, Jr., L. 512(1990)265
- Tani, K. and Suzuki, Y.
Effect of pore size on the surface excess isotherm of silica packings 515(1990)159
- Tanigawa, T., see Tanaka, N. 549(1991)29
- Taniguchi, H., see Kim, C.-H. 512(1990)131
- Tanimoto, T., see Kawasaki, N. 503(1990)237
- Tanimura, T., see Takeuchi, T. 538(1991)125
- Tanimura, T., see Yamazaki, S. 540(1991)169
- Taoka, M., see Matsuoka, K. 515(1990)313
- Tápanes, R. D., Ramos, F., Pérez Avila, J., Rosado, A. and Fajardo, D.
Identification of a chloroquine artifact by gas chromatography-mass spectrometry 532(1990)400
- Tapon-Bretonnière, J., see Sinniger, V. 539(1991)289
- Tar, A., see Gál, S. 545(1991)189
- Tardy, M., see Uhlrich, S. 539(1991)393
- Tarter, E. J. and Scott, P. M.
Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441
- Tasker, R. A. R., see Blanchard, J. R. T. 526(1990)546
- Tassone, A. I., see Betts, T. J. 547(1991)335
- Tatematsu, A., see Niwa, T. 533(1990)145
- Tatsuhara, T., Tabuchi, F., Yamane, M. and Hori, T.
Rapid and simple method for the determination of nimustine hydrochloride in human blood and brain by high-performance liquid chromatography 526(1990)507
- Tauer, C., see Jungbauer, A. 512(1990)157
- Tauer, C., see Wenisch, E. 516(1990)133
- Taverna, M., Baillet, A. E. and Bayloqç-Ferrier, D.
Identification of monosaccharides by high-performance liquid chromatography using methanolysis and a light-scattering detector 514(1990)70
- Tawa, R., see Kito, M. 528(1990)91
- Taylor, D. R., see Akporhonor, E. E. 504(1990)269
- Taylor, F., see Kurantz, M. J. 549(1991)387
- Taylor, J. A. and Yeung, E. S.
Axial-beam absorbance detection for capillary electrophoresis 550(1991)831
- Taylor, L. T., see Chang, H.-C. K. 517(1990)491
- Taylor, L. T., see Shah, S. 505(1990)293
- Taylor, R. B., Behrens, R., Moody, R. R. and Wangboonskul, J.
Assay method for the simultaneous determination of proguanil, chloroquine and their major metabolites in biological fluids 527(1990)490
- Taylor, T., see Baldock, G. A. 529(1990)113
- Tayot, J.-L., see Uhlrich, S. 539(1991)393
- Tchapla, A., see Thévenon-Emeric, G. 550(1991)267
- Teasdale, P. R., see Ge, H. 544(1991)305
- Te Booy, M. P. W. M., Faber, A., De Jonge, E., Wolterink, E. P., Riethorst, W., Beugeling, T., Bantjes, A., Over, J. and König, B. W.
Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103
- Tecklenburg, Jr., R. E., see Watson, J. T. 518(1990)283

- Teelken, A. W., Schuring, H. F., Trieling, W. B. and Damsma, G.
Measurement of acetylcholine and choline in cerebrospinal fluid by high-performance liquid chromatography: failure to detect acetylcholine in normal human cerebrospinal fluid 529(1990)408
- Tehrani, J., see Krueger, R. J. 543(1991)451
- Teichberg, V. I.
Affinity-repulsion chromatography 510(1990)49
- Teixeira, A., see Gigante, B. 549(1991)217
- Ten Bokkel Huinink, W. W., see Van Tellingen, O. 529(1990)329
- Tennikov, M. B., Gorbunov, A. A. and Skvortsov, A. M.
Determination of polymer polydispersity by gel permeation chromatography 509(1990)219
- Tennikov, M. B., see Tennikova, T. B. 509(1990)233
- Tennikova, T. B., Blagodatskikh, I. V., Švec, F. and Tennikov, M. B.
Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233
- Ten Noever de Brauw, M. C., see Reinhoud, N. J. 516(1990)147
- Tenu, J. P., see Chenais, B. 539(1991)433
- Teplán, I., see Szöke, B. 547(1991)121
- Terabe, S. and Isemura, T.
Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667
- Terabe, S., Ishihama, Y., Nishi, H., Fukuyama, T. and Otsuka, K.
Effect of urea addition in micellar electrokinetic chromatography 545(1991)359
- Terabe, S., Miyashita, Y., Shibata, O., Barnhart, E. R., Alexander, L. R., Patterson, D. G., Karger, B. L., Hosoya, K. and Tanaka, N.
Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23
- Terabe, S., see Nishi, H. 513(1990)279
- Terabe, S., see Nishi, H. 515(1990)233
- Terabe, S., see Otsuka, K. 515(1990)221
- Terada, H., see Yamamoto, H. 543(1991)201
- Teramachi, S., Hasegawa, A. and Matsumoto, T.
Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429
- Teramura, T., Kobayashi, S. and Higuchi, S.
Determination of mepirodipine in plasma by capillary column gas chromatography-negative-ion chemical ionization mass spectrometry 528(1990)191
- Terashi, A., Hanada, Y., Kido, A. and Shinohara, R.
Determination of primary and secondary aliphatic amines in the environment as sulphonamide derivatives by gas chromatography-mass spectrometry 503(1990)369
- Terzuoli, L., Pagani, R., Leoncini, R., Vannoni, D. and Marinello, E.
High-performance liquid chromatography of thiazolidinic compounds 514(1990)80
- Terzuoli, L., Pagani, R., Leoncini, R., Vannoni, D. and Marinello, E.
High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472
- Teshima, G., see Wu, S.-L. 516(1990)115
- Teshima, G. M., see Canova-Davis, E. 508(1990)81
- Testa, B., see Bechalany, A. 541(1991)221
- Testa, B., see Tsai, R.-S. 538(1991)119
- Testa, B., see Vallat, P. 504(1990)411
- Testoni, F. and Frisina, G.
Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101
- Tetaz, T., Kecorius, E., Grego, B. and Fidge, N.
Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 511(1990)147
- Tetaz, T., see Meyer, B. 540(1991)386
- Tetsumi, T., see Yasaka, Y. 508(1990)133
- Thakur, R. S., see Mandal, S. 547(1991)468
- Thal, L. J., see Knapp, S. 526(1990)97
- Thanh, H. H., Andresen, A. T., Agasøster, T. and Rasmussen, K. E.
Automated column-switching high-performance liquid chromatographic determination of flumequine and oxolinic acid in extracts from fish 532(1990)363
- Tharakan, J. P., Clark, D. B. and Drohan, W. N.
Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153
- Thede, R., Below, E., Haberland, D. and Pscheidl, H.
Chromatograms of second-order reactions on chromatographic columns 520(1990)109

- Theeuwes, A. G. M., see Flapper, W. 533(1990)47
- Thenot, J. P., see Rouhouse, A. 506(1990)601
- Théorêt, Y., see Varin, F. 529(1990)319
- Thévenon-Emeric, G., Tchaplal, A. and Martin, M.
Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267
- Thibault, P., Pleasance, S. and Laycock, M. V.
Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483
- Thiébaud, D., see Drogue, S. 538(1991)91
- Thieken, M. A., see Weisz, A. 538(1991)157
- Thoène, J. G., see Buchanan, D. N. 534(1990)1
- Thoma, J., see Kraut-Vass, A. 538(1991)233
- Thoma, R. S. and Crimmins, D. L.
Automated phenylthiocarbonyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153
- Thomare, P., Kergueris, M. F., Bourin, M., Thomas, L. and Larousse, C.
Sensitive one-step extraction procedure for high-performance liquid chromatographic determination of viloxazine in human plasma 529(1990)494
- Thomas, L., see Thomare, P. 529(1990)494
- Thomas, L. C. and Wood, C. L.
Quantitative comparisons of reaction products using liquid chromatography with dual-label radioactivity measurements 522(1990)117
- Thomas, R. L., see Wang, H. J. 536(1991)107
- Thomas Jr., R. C., see Bombardt, P. A. 527(1990)233
- Thompson, D. H., see Camacho, P. L. 506(1990)611
- Thompson, P. W., see James, I. T. 525(1990)43
- Thompson, T. S., Kolic, T. M. and MacPherson, K. A.
Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49
- Thomsen, J. K. and Cox, R. P.
Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53
- Thomsen, M., see Hansen, S. H. 544(1991)53
- Thomson, C. A. and Chesney, D. J.
Post-extraction solvent flush of the pressure restrictor in supercritical fluid extraction 543(1991)187
- Thormann, W.
Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211
- Thormann, W., Meier, P., Marcolli, C. and Binder, F.
Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445
- Thormann, W., see Caslavská, J. 545(1991)315
- Thormann, W., see Gebauer, P. 545(1991)299
- Thorpe, C., see Camilleri, P. 508(1990)208
- Thorpe, C. J., see Camilleri, P. 519(1990)387
- Thuaud, N., Sebille, B., Deratani, A. and Lelievre, G.
Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453
- Thuaud, N., see Sebille, B. 531(1990)51
- Thuillier, A., see Gimenez, F. 529(1990)339
- Thulin, H.
Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501
- Tian, B.-S., see Dubin, P. L. 515(1990)37
- Tian, Z., Hrinyo-Pavlina, T., Roeske, R. W. and Rao, P. N.
Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297
- Tichá, M., see Sklenářová, S. 540(1991)365
- Tickner, T. R., see Dawson, C. M. 534(1990)267
- Tickner, T. R., see Rainbow, S. J. 527(1990)389
- Tien, F.-C., see Burger, B. V. 518(1990)207
- Tikhonov, Y. V., Pimenov, A. M., Uzhevko, S. A. and Toguzov, R. T.
Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419
- Tiknius, V., see Markauskas, A. 539(1991)525
- Tiljander, A. and Skarping, G.
Determination of 4,4'-methylenedianiline in hydrolysed human urine using liquid chromatography with UV detection and peak identification by absorbance ratio 511(1990)185
- Tillement, J.-P., see Herve, F. 539(1991)405
- Tillement, J.-P., see Sebille, B. 531(1990)51
- Timossi, A., see Castello, G. 522(1990)329
- Tinsley, P. W. and LaCreta, F. P.
Improved chromatographic method for the determination of trimetrexate in urine 529(1990)468
- Tiollier, J., see Uhrlich, S. 539(1991)393

- Tirone, P., see Lorusso, V. 525(1990)401
- Titheradge, A. C., see Sherwood, R. A. 528(1990)293
- Titus, D. C., August, T. F., Yeh, K. C., Eisenhandler, R., Bayne, W. F. and Musson, D. G.
Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87
- Tiwari, B. B., Singh, R. K. P., Kumar, V. and Yadava, K. L.
Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554
- Tiwari, B. B., Singh, R. K. P. and Yadava, K. L.
Ionophoretic studies on mixed complexes. Metal-nitritotriacetate-penicillamine system 542(1991)537
- Tjaden, U. R. and De Bruijn, E. A.
Chromatographic analysis of anticancer drugs 531(1990)235
- Tjaden, U. R., Reeuwijk, H. J. E. M., Van der Greef, J., Pattyn, G., De Bruijn, E. A. and Van Oosterom, A. T.
Bioanalysis of suramin in human plasma by ion-pair high-performance liquid chromatography 525(1990)141
- Tjaden, U. R., see Kokkonen, P. 511(1990)35
- Tjaden, U. R., see Macek, J. 545(1991)177
- Tjaden, U. R., see Reinhoud, N. J. 516(1990)147
- Tjaden, U. R., see Stegehuis, D. S. 511(1990)137
- Tjaden, U. R., see Stegehuis, D. S. 538(1991)393
- Tjaden, U. R., see Stegehuis, D. S. 549(1991)185
- Tjandra-Maga, T. B., see Verbesselt, R. 526(1990)515
- Tji, T. G., Krips, H. J., Gelsema, W. J. and De Ligny, C. L.
Determination of the charge of ions by partition coefficient measurements in gel permeation chromatography 504(1990)403
- Tjørnelund, J. and Hansen, S. H.
Gas chromatographic assay for N,N-dimethylglycine in urine 530(1990)227
- Tkaczyk, M., see Podzimek, Š. 547(1991)195
- Tobler, P., see Seyfried, C. A. 529(1990)43
- Tock, P. P. H., Duijsters, P. P. E., Kraak, J. C. and Poppe, H.
Theoretical optimization of open-tubular columns for liquid chromatography with respect to mass loadability 506(1990)185
- Tock, P. P. H., see Bruin, G. J. M. 517(1990)557
- Tock, P. P. H., see Eguchi, S. 516(1990)301
- Tod, M., Prevot, M., Chalom, J., Farinotti, R. and Mahuzier, G.
Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295
- Todd, R., see Wuenschell, G. E. 543(1991)345
- Todoriki, H., see Hayashi, T. 528(1990)1
- Togashi, H., see Matsumoto, M. 526(1990)1
- Toguzov, R. T., see Tikhonov, Y. V. 520(1990)419
- Tokieda, T., see Tokuda, T. 530(1990)418
- Tokuda, T., Tokieda, T., Anazawa, A. and Yoshioka, M.
Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418
- Tokumura, T., see Machida, R. 534(1990)190
- Tomandl, J., see Glatz, Z. 503(1990)197
- Tomás, J., see Camps, F. 514(1990)199
- Tombach, B., Kusseler, R. and Schlegel, W.
Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231
- Tomek, W., Buri, J., Vallon, R. and Schmid, H.-P.
Large-scale purification of prosomes from calf's liver 521(1990)221
- Tomer, K. B., see Moseley, M. A. 516(1990)167
- Tomita, M., Okuyama, T., Hatta, Y. and Kawai, S.
Determination of free malonaldehyde by gas chromatography with an electron-capture detector 526(1990)174
- Tomita, M., Okuyama, T. and Kawai, S.
Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391
- Tomita, M., see Kawai, S. 514(1990)29
- Tomita, M., see Kawai, S. 540(1991)411
- Tomita, M., see Watanabe, S. 518(1990)264
- Tomlinson, R. H., see Boison, J. O. K. 522(1990)315
- Tomoda, M., see Kanazawa, H. 507(1990)327
- Tomoda, M., see Kanazawa, H. 537(1991)469
- Tonelli, D., see Gagliardi, L. 508(1990)252
- Tong, Y.-Y., see Oshima, T. 547(1991)175
- Topalova, I., see Chanev, C. 520(1990)33
- Topalova, I., see Gavrilova, T. B. 520(1990)41
- Tordjman, C., Serkiz, B., Rambaud, F., Bonnet, J. and Volland, J. P.
High-performance liquid chromatographic quantitation of cyclooxygenase and lipoxygenase metabolites of arachidonic acid from rat polymorphonuclear leukocytes 532(1990)135

- Torfgård, K., Ahlner, J. and Norlander, B.
Simultaneous determination of glyceryl trinitrate and its two dinitrate metabolites in plasma and tissues by capillary gas chromatography 534(1990)196
- Torikata, T., see Araki, T. 545(1991)183
- Törnell, B., see Hargitai, T. 540(1991)145
- Torres, M. C., Dean, M. A. and Wagner, F. W.
Chromatographic separations of sucrose monostearate structural isomers 522(1990)245
- Torsi, G., Chiavari, G., Laghi, C. and Asmundsdottir, A. M.
Responses of different UV-visible detectors in high-performance liquid chromatographic measurements when the absolute number of moles of an analyte is measured 518(1990)135
- Tosi, B., see Menziani, E. 511(1990)396
- Toth, G., Lebl, M. and Hruby, V. J.
Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives 504(1990)450
- Tóth, G., see Mucha, I. 543(1991)307
- Toth-Martinez, B. L., see Gál, S. 545(1991)189
- Toulon, P., Chadeuf, G. and Aiach, M.
Purification of heparin cofactor II from human plasma 539(1991)493
- Town, C., see Powell, M. L. 529(1990)237
- Towns, J. K. and Regnier, F. E.
Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69
- Townshend, A., see Leon-Gonzalez, M. E. 539(1991)47
- Tozer, T. N., see Reigner, B. G. 533(1990)111
- Tracqui, A., Kintz, P. and Mangin, P.
Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369
- Tracqui, A., see Kennel, S. 527(1990)169
- Tramosch, W. G. and Weber, S. G.
Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113
- Tran, A. D., Blanc, T. and Leopold, E. J.
Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Tran, A. D., Park, S., Lisi, P. J., Huynh, O. T., Ryall, R. R. and Lane, P. A.
Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459
- Tran, C. D., see Xu, M. 543(1991)233
- Tran, Q., see Williams, D. T. 549(1991)297
- Treado, P. J., Briggs, L. M. and Morris, M. D.
Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341
- Treiman, D. M., see Gunawan, S. 503(1990)177
- Treston, A. M. and Hooper, W. D.
Metabolic studies with phenobarbitone, primidone and their N-alkyl derivatives: quantification of substrates and metabolites using chemical ionization gas chromatography-mass spectrometry 526(1990)59
- Treuner, J., see Bruchelt, G. 545(1991)407
- Tricker, A. R., see Pfundstein, B. 539(1991)141
- Trieling, R. G., Reijnga, J. C. and Jonker, H. D.
Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475
- Trieling, W. B., see Teelken, A. W. 529(1990)408
- Trimble, F. D., see Ito, Y. 538(1991)59
- Trinajstić, N., see Bošnjak, N. 540(1991)430
- Tripp, S., see Kuwahara, S. K. 534(1990)260
- Trites, D., see Ruprecht, R. M. 528(1990)371
- Trnovec, T., see Weber, H. 525(1990)459
- Troshkov, M. L., see Salenko, V. L. 549(1991)429
- Trüdinger, U., Müller, G. and Unger, K. K.
Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111
- Trüdinger, U., see Kurganov, A. 506(1990)391
- Tsai, A. M., Englert, D. and Graham, E. E.
Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89
- Tsai, G. J., see Lee, W.-C. 504(1990)55
- Tsai, H. and Weber, S. G.
Electrochemical detection of dipeptides and dipeptide amides 515(1990)451
- Tsai, H. and Weber, S. G.
Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345
- Tsai, R.-S., El Tayar, N., Testa, B. and Ito, Y.
Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119
- Tsai, T.-H. and Chen, C.-F.
Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521
- Tsantili-Kakoulidou, A., see Bechalany, A. 541(1991)221
- Tsao, G. T., see Lee, W.-C. 504(1990)55

- Tseng, A. M.
Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363
- Tsikas, D., Fauler, J., Brunner, G. and Frölich, J. C.
Capillary isotachophoretic determination of cysteinyl leukotrienes 545(1991)375
- Tsuboi, R., see Kimata, K. 515(1990)73
- Tsuboi, R., see Tanaka, N. 535(1990)13
- Tsuchida, Y., see Miyagawa, F. 549(1991)400
- Tsuchiya, H., see Tanaka, N. 535(1990)13
- Tsuchiya, H., see Tanaka, N. 544(1991)319
- Tsuchiya, Y., see Machida, R. 534(1990)190
- Tsuda, T. and Kobayashi, Y.
Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357
- Tsuda, T. and Muramatsu, Y.
Electrochromatography with continuous sample introduction 515(1990)645
- Tshako, M., see Baba, Y. 507(1990)103
- Tsuji, A., see Hirukawa, M. 507(1990)95
- Tsuji, A., see Maeda, M. 515(1990)329
- Tsuji, K.
High-performance capillary electrophoresis of proteins. Sodium dodecyl sulphate-polyacrylamide gel-filled capillary column for the determination of recombinant biotechnology-derived proteins 550(1991)823
- Tsuji, S., see Hamano, T. 541(1991)265
- Tsujimoto, Y., see Tanaka, M. 526(1990)289
- Tsujino, D., see Kinoshita, M. 529(1990)462
- Tsukahara, S., Saitoh, K. and Suzuki, N.
Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225
- Tsukimura, B., see Borst, D. W. 545(1991)71
- Tsuno, M., see Asakawa, N. 541(1991)231
- Tsuruta, Y., Date, Y. and Kohashi, K.
Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178
- Tucker, R. E., see Karangwa, E. 532(1990)105
- Tüdös, A. J., Ozinga, W. J. J. and Kok, W. T.
Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1
- Tuljupa, F. M., see Sur, S. V. 542(1991)451
- Tumina, S. D., see Ryabikova, V. M. 520(1990)121
- Turchetto, L., see Gagliardi, L. 508(1990)252
- Turck, D., see Feste, A. S. 518(1990)349
- Turcotte, J. G., see Amari, J. V. 517(1990)219
- Turgeon, J., see Dasgupta, A. 526(1990)260
- Turk, J., see Wolf, B. A. 509(1990)325
- Turková, J.
Protein-dye interactions: development and applications (edited by M. A. Vijayalakshmi and O. Bertrand) (Book Review) 516(1990)478
- Turley, D. J., Kelly, M. T. and Smyth, M. R.
High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263
- Turnbull, I. F., see Sharp, P. J. 512(1990)189
- Turner, P., see Saleh, S. 528(1990)531
- Tvrzická, E., Mareš, P., Votruba, M. and Hrabák, P.
Some limitations of plasma lipid analysis in clinical research by thin-layer chromatography with flame-ionization detection 530(1990)424
- Twigg, M. V., see Lindsay Smith, J. R. 547(1991)447
- Tyczkowska, K., Page, R. L. and Riviere, J. E.
Determination of carboplatin in canine plasma by liquid chromatography with ultraviolet-visible detection and confirmation by atomic absorption spectroscopy 527(1990)447
- Tyczkowska, K. L., see Amiss, T. J. 526(1990)375
- Tyndale, R. F. and Inaba, T.
Simultaneous determination of haloperidol and reduced haloperidol by gas chromatography using a megabore column with electron-capture detection: application to microsomal oxidation of reduced haloperidol 529(1990)182
- Tyras, D. H., see Rao, P. S. 536(1991)137
- Tyrefors, N. and Carlsson, A.
Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

U

- Ubaldi, A., see Bagnati, R. 527(1990)267
- Uccello-Barretta, G., see Bertucci, C. 506(1990)617
- Uchida, T., Ohtani, T., Kasai, M., Yanagihara, Y., Noguchi, K., Izu, H. and Hara, S. Peptide behaviour and analysis on a chemically stable C_{18} -bonded vinyl alcohol copolymer column with alkaline and acidic eluents 506(1990)327
- Uchida, T., see Ohtani, T. 515(1990)175
- Uchida, Y., see Ishida, K. 539(1991)169
- Uchytíl, B. and Munich, J. Simple device for the determination of volatile chlorinated hydrocarbons in water by gas chromatography 509(1990)111
- Uden, P. C., see Gavlick, W. K. 508(1990)187
- Uden, P. C., see Haas, III, J. W. 550(1991)609
- Uden, P. C., see Wang, T. 517(1990)185
- Udseth, H. R., see Smith, R. D. 516(1990)157
- Udvarhelyi, P. M., Sunter, D. C. and Watkins, J. C. Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69
- Uebel, R. A., Wium, C. A., Hawtrey, A. O. and Coetzee, J. Electrochemical determination of 2,6-diisopropylphenol after high-performance liquid chromatography of extracts from serum 526(1990)293
- Ueda, S., see Watanabe, S. 518(1990)264
- Ueda, T., see Jinno, K. 517(1990)193
- Uehara, N., see Kamisaki, Y. 529(1990)417
- Uehara, N., see Ohashi, H. 539(1991)225
- Ueki, T., see Tagawa, K. 529(1990)500
- Ugelstad, J., see Ellingsen, T. 535(1990)147
- Ugelstad, J., see Kulín, L.-I. 514(1990)1
- Uhl, K., see Jungbauer, A. 512(1990)157
- Uhlrich, S., Tiollier, J., Tardy, M. and Tayot, J.-L. Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393
- Ukai, S., Honda, A., Nagai, K. and Kiho, T. Gas-liquid chromatographic analysis of carboxymethylcellulose and carboxymethylstarch 513(1990)338
- Ulberth, F. and Achs, E. Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202
- Ulinskaya, N. N., see Dmitrenko, A. V. 520(1990)21
- Ulvi, V. and Tammilehto, S. High-performance liquid chromatographic method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151
- Umeda, I., see Nishioka, R. 526(1990)210
- Umeda, K., see Hirokawa, T. 513(1990)297
- Umegae, Y., Nohta, H. and Ohkura, Y. Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495
- Umuzawa, H., see Nakanuma, R. 527(1990)208
- Unarska, M., Davies, P. A., Esnouf, M. P. and Bellhouse, B. J. Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53
- Underhill, K., see Hudson, M. K. 513(1990)21
- Underwood, R. H., Bradwin, G. R., Moore, T. J. and Williams, G. H. Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180
- Unger, K. K., see Hanson, M. 517(1990)269
- Unger, K. K., see Janzen, R. 522(1990)77
- Unger, K. K., see Kurganov, A. 506(1990)391
- Unger, K. K., see Kurganov, A. A. 548(1991)207
- Unger, K. K., see Stegeman, G. 506(1990)547
- Unger, K. K., see Trüdinger, U. 535(1990)111
- Unger, K. K., see Wirth, H. J. 550(1990)383
- Uno, B., see Kawai, S. 540(1991)411
- Unruh, J., Piotrowski, E., Schwartz, D. P. and Barford, R. Solid-phase extraction of sulfamethazine in milk with quantitation at low ppb levels using thin-layer chromatography 519(1990)179
- Upadhyay, R. K., Agarwal, N. and Gupta, N. Thin-layer chromatography of thiazolidinones. I 542(1991)531
- Urakami, K., see Yoshida, S. 530(1990)57
- Urasa, I. T., Mavura, W. J., Lewis, V. D. and Nam, S. H. The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

- Urayama, K., see Koh, S. 549(1991)434
- Urban, G., see Schalkhammer, T. 510(1990)355
- Urbánek, J., see Jandera, P. 504(1990)297
- Urech, R., Chan, L. and Duffy, P.
High-performance liquid chromatographic assay of totalol: improved procedure and investigation of peak broadening 534(1990)271
- Ursem, M., see Chervet, J. P. 543(1991)439
- Usui, H., Takahashi, Y., Maeda, N., Mitui, H., Isobe, T., Okuyama, T., Nishizawa, Y. and Hayashi, S.
Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375
- Utnik, A., see Gorczyńska, K. 509(1990)53
- Utsuki, T., see Yoshioka, M. 515(1990)205
- Utsumi, M., see Okamoto, M. 515(1990)43
- Uunk, L. G. M., see Schoenmakers, P. J. 506(1990)563
- Uzhevko, S. A., see Tikhonov, Y. V. 520(1990)419
- V**
- Vaccher, C., Berthelot, P., Flouquet, N. and Debaert, M.
Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502
- Vacek, O., see Gabriel, J. 542(1991)200
- Vacík, J., see Gaš, B. 545(1991)225
- Vail, R. B. and Homann, M. J.
Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317
- Vainiotalo, P., Julkunen-Tiitto, R., Juntheikki, M.-R., Reichardt, P. and Auriola, S.
Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367
- Vainiotalo, S. and Häyri, L.
Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273
- Vaisar, T. and Vanek, T.
Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443
- Valášková, I., see Kaniansky, D. 502(1990)143
- Valcárcel, M., see Ballesteros, E. 518(1990)59
- Valentín, J. R., Hall, K. W. and Becker, J. F.
Continuous monitoring of a changing sample by multiplex gas chromatography 518(1990)199
- Valg, T. A., see Walisser, J. A. 518(1990)179
- Valkó, K., Cserhádi, T., Fellegvári, I., Sági, J. and Szemző, A.
Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35
- Valkó, K., Cserhádi, T. and Forgács, E.
Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667
- Valkó, K., see Szepesi, G. 550(1991)87
- Vallat, P., El Tayar, N., Testa, B., Slacanin, I., Marston, A. and Hostettmann, K.
Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411
- Vallette, J. P., see Nicot, G. 528(1990)258
- Vallon, J. J., see Franceschini, A. 541(1991)109
- Vallon, R., see Tomek, W. 521(1990)221
- Vampa, G. and Benvenuti, S.
Separation of 18 α - and 18 β -glycyrrhetic acid by high-performance thin-layer chromatographic densitometry 543(1991)479
- Van Beek, T. A., Scheeren, H. A., Rantio, T., Melger, W. C. and Lelyveld, G. P.
Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375
- Van Bramer, D., see Campbell, D. L. 546(1991)381
- Van Breenen, R. B., Canjura, F. L. and Schwartz, S. J.
High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373
- Van Cauwelaert, F., see Malfait, T. 504(1990)369
- Van Dael, M., see Smolders, E. 514(1990)371

- Van Damme, J.-C., De Ryckel, B. and Galoux, M.
Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375
- Van de Goor, T. A. A. M., Janssen, P. S. L., Van Nispen, J. W., Van Zeeland, M. J. M. and Everaerts, F. M.
Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379
- Van den Beld, C. M. B., see Stegehuis, D. S. 549(1991)185
- Van den Berg, G. A., Wolthers, B. G., Nagel, G. T., Muskiet, F. A. J., Banghman, S. and De Zeeuw, R. A.
Diurnal changes in plasma levels of 2-pyrrolidinone determined by isotope dilution mass spectrometry 550(1991)239
- Van den Berg, J. H. M., see Glöckner, G. 550(1991)629
- Vanden Driessche, N., see Maris, F. 506(1990)211
- Van den Eeckhout, E., Coene, J., Claereboudt, J., Borremans, F., Claeys, M., Esmans, E. and Sinsheimer, J. E.
Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column 541(1991)317
- Van den Eeckhout, E., De Bruyn, A., Pepermans, H., Esmans, E. L., Vryens, I., Claereboudt, J., Claeys, M. and Sinsheimer, J. E.
Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113
- Van der Drift, C., see Gorris, L. G. M. 504(1990)421
- Van der Greef, J.
HPLC of biological macromolecules (edited by K. M. Gooding and F. E. Regnier) (Book Review) 543(1991)483
- Van der Greef, J., see Kokkonen, P. 511(1990)35
- Van der Greef, J., see Macek, J. 545(1991)177
- Van der Greef, J., see Reinhoud, N. J. 516(1990)147
- Van der Greef, J., see Stegehuis, D. S. 511(1990)137
- Van der Greef, J., see Stegehuis, D. S. 538(1991)393
- Van der Greef, J., see Stegehuis, D. S. 549(1991)185
- Van der Greef, J., see Tjaden, U. R. 525(1990)141
- Van der Horst, F. A. L., Reijn, J. M., Post, M. H., Bult, A., Holthuis, J. J. M. and Brinkman, U. A. T.
Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351
- Van der Kelen, G. P., see Praet, A. 507(1990)427
- Van der Kleijn, E., see Wuis, E. W. 526(1990)575
- Vanderkop, P. A. and MacNeil, J. D.
Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386
- Van der Slik, W., see Dikkeschei, L. D. 529(1990)145
- Van der Vijgh, W. J. F., see De Jong, J. 529(1990)359
- Van der Vusse, G. J., see Roemen, T. H. M. 528(1990)447
- Van der Woude, H. R., see Van Tellingen, O. 529(1990)135
- Van der Woude, H. R., see Van Tellingen, O. 529(1990)329
- Van Doremaele, G. H. J., see Sparidans, R. W. 508(1990)319
- Van Effen, R. M., see Ding, W. 526(1990)355
- Vanek, T., see Vaisar, T. 547(1991)443
- Van Es, A. J., Rijks, J. A., Cramers, C. A. and Golay, M. J. E.
Turbulent flow in capillary gas chromatography — evaluation of a theoretical concept by Golay 517(1990)143
- Van Gent, T. and Van Tol, A.
Automated gel permeation chromatography of plasma lipoproteins by preparative fast protein liquid chromatography 525(1990)433
- Van Gorkum, J., see Welling, G. W. 512(1990)337
- Van Gorkum, J., see Welling, G. W. 548(1991)235
- Vanhaelen, M., see Jaziri, M. 538(1991)227
- Van Herk, A. M., see Sparidans, R. W. 508(1990)319
- Van Huynh, N., see Motte, J. C. 507(1990)321
- Van Kempen, G. M. J., see Edelbroek, P. M. 530(1990)347
- Van Langenhove, H., see Keymeulen, R. 541(1991)83
- Van Liedekerke, B. M. and De Leenheer, A. P.
Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by

- characterization with a diode array detector
528(1990)155
- Van Lier, J. E., see Wagner, J. R. 504(1990)191
- Van Nispen, J. W., see Van de Goor, T. A. A. M. 545(1991)379
- Vannoni, D., see Terzuoli, L. 514(1990)80
- Vannoni, D., see Terzuoli, L. 547(1991)472
- Vannoort, R. W., Chervet, J.-P., Lingeman, H., De Jong, G. J. and Brinkman, U. A. T. Coupling of supercritical fluid extraction with chromatographic techniques (Review) 505(1990)45
- Van Oers, N. S. C., Boismenu, R., Cohen, B. L. and Murgita, R. A. Analytical- and preparative-scale separation of molecular variants of α -fetoprotein by anion-exchange chromatography on Monobead™ resins 525(1990)59
- Van Oosterom, A. T., see Tjaden, U. R. 525(1990)141
- Van Putten, T., see Aravagiri, M. 525(1990)419
- Van Soest, R. E. J., see Chervet, J. P. 543(1991)439
- Van Staden, J. F., see Jones, E. A. 537(1991)277
- Van Tellingén, O., Beijnen, J. H., Van der Woude, H. R., Bruning, P. F. and Nooyen, W. J. High-performance liquid chromatographic method for the analysis of 10-ethyl-10-deazaminopterin and metabolites in plasma 529(1990)135
- Van Tellingén, O., Van der Woude, H. R., Beijnen, J. H., Bhushana Rao, K. S. P., Ten Bokkel Huinink, W. W. and Nooyen, W. J. High-performance liquid chromatographic bio-analysis and preliminary pharmacokinetics of the experimental antitumour drug vinorelbine 529(1990)329
- Van Tol, A., see Van Gent, T. 525(1990)433
- Van Veen, J., see Chen, X. 529(1990)161
- Van Zeeland, M. J. M., see Van de Goor, T. A. A. M. 545(1991)379
- Van Zoonen, P., see Hogendoorn, E. A. 511(1990)243
- Varady, L., see Afeyan, N. B. 519(1990)1
- Varga, J. M., see Wongyai, S. 536(1991)155
- Varin, F., Ducharme, J., Besner, J. G. and Théorêt, Y. Determination of atracurium and laudanosine in human plasma by high-performance liquid chromatography 529(1990)319
- Varin, F., see Lin, K. T. 536(1991)349
- Varis, E., see Laakso, I. 505(1990)424
- Varney, M. S., see Bianchi, A. P. 542(1991)413
- Vasil'eva, E. V., see Roshchina, T. M. 520(1990)15
- Vaysse, N., see Jiménez, J. 511(1990)333
- Veening, H., see Ding, W. 526(1990)355
- Veening, H., see Lu, Z. 540(1991)199
- Veeraragavan, K., Bernier, A. and Braendli, E. Sample displacement mode chromatography: purification of proteins by use of a high-performance anion-exchange column 541(1991)207
- Vega, L. R., see Leff, V. 547(1991)462
- Vejrosta, J., Mikešová, M. and Filip, P. Sorption of primary *n*-alkanols on Tenax 518(1990)234
- Velasco, D., Castells, J. and Lopez-Calahorra, F. High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonoitriles 519(1990)228
- Velichkov, A., see Stoev, G. 538(1991)431
- Vella, G., see Phillips, D. J. 536(1991)95
- Vella, G. J., see Dion, D. M. 535(1990)127
- Velíšek, J., Davídek, J., Michová, J. and Pokorný, J. Rapid gas chromatographic determination of volatile degradation products of glucosinolates in rapeseed oil 502(1990)167
- Veltkamp, A. C. Radiochromatography in pharmaceutical and biomedical analysis 531(1990)101
- Veltkamp, A. C., Das, H. A. and Brinkman, U. A. T. Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301
- Vemulapalli, S., see Haky, J. E. 505(1990)307
- Venables, A. C., see Paik, J. S. 540(1991)456
- Venema, K., see Koning, H. 533(1990)171
- Venn, R. F. and Michalkiewicz, A. Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379
- Ventura, P., see Girometta, M. A. 507(1990)227
- Ventura, P., see Italia, A. 503(1990)266
- Venturella, V. S., see Keswani, S. R. 534(1990)77
- Verbesselt, R., Tjandra-Maga, T. B., De Schepper, P. J., Itakura, K. and Sugiuro, T. Determination of a platelet activating factor antagonist (CV-3988): methodology and clinical application 526(1990)515
- Verdini, A. S., see Viscomi, G. C. 549(1991)175
- Verdonck, L., see Praet, A. 507(1990)427
- Vere, D. W., see Burton, L. C. 526(1990)159
- Vereshchagin, A. G., see Pchelkin, V. P. 538(1991)373

- Veress, T., Szanto, J. I. and Leisztner, L.
Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339
- Vergori, F., see Di Muccio, A. 513(1990)333
- Verhaar, L. A. T., Hendriks, H. E. J., Groenland, W. P. T. and Kuster, B. F. M.
High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113
- Verheggen, T. P. E. M., Schoots, A. C. and Everaerts, F. M.
Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245
- Verheggen, T. P. E. M., see Reijenga, J. C. 545(1991)471
- Verpoorte, R.
Chromatographic analysis of alkaloids (by M. Popl, J. Fährnich and V. Tatar) (Book Review) 545(1991)221
- Verpoorte, R., see Poulsen, C. 547(1991)155
- Vervoort, R. J. M., see Maris, F. A. 547(1991)45
- Vespalec, R. and Neča, J.
Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257
- Vespalec, R., see Neča, J. 514(1990)161
- Vespalec, R., see Šimek, Z. 543(1991)475
- Vessman, J., see Gyllenhaal, O. 511(1990)303
- Vessman, J., see Gyllenhaal, O. 516(1990)415
- Vetrova, Z. P., see Karabanov, N. T. 508(1990)193
- Vetter, W. and Walther, W.
Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405
- Vetticaden, S. J. and Chandrasekaran, A.
Chromatography of cardiac glycosides 531(1990)215
- Veuthey, J.-L. and Haerdi, W.
Separation of amphetamines by supercritical fluid chromatography 515(1990)385
- Veuthey, J. L., see Janicot, J. L. 505(1990)247
- Viala, A., see Cahard, C. 532(1990)193
- Viala, A., see Rop, P. P. 527(1990)226
- Viala, A., see Rop, P. P. 532(1990)351
- Vialle, J., Navarro, P., Nguyet, T. T., Lanteri, P. and Longera, R.
Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159
- Vidal, R., see Marzo, A. 536(1991)327
- Vidal-Madjar, C., Place, H., Boulkanz, L. and Jaulmes, A.
Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81
- Vidal-Madjar, C., see Cysewski, P. 548(1991)61
- Vigdergauz, M. S. and Petrova, Y. I.
Even-odd alternation effect in the regularities of chromatographic retention 509(1990)15
- Vigh, G., Irgens, L. H. and Farkas, G.
Displacement chromatography on packed capillary columns 502(1990)11
- Vigh, G., Quintero, G. and Farkas, G.
Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481
- Vigh, G., see Bartha, A. 506(1990)85
- Vigh, G., see Camacho, P. L. 506(1990)611
- Vigh, G., see Welsch, T. 506(1990)97
- Vijayalakshmi, M. A., see Birkenmeier, G. 539(1991)267
- Vijayalakshmi, M. A., see Müller-Schulte, D. 539(1991)307
- Vilenchik, L. Z.
Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49
- Villani, C., see Gasparri, F. 539(1991)25
- Ville, G., see Ricard-Blum, S. 530(1990)432
- Villén, T., Aden Abdi, Y., Ericsson, Ö., Gustafsson, L. L. and Sjöqvist, F.
Determination of metrifonate and dichlorvos in whole blood using gas chromatography and gas chromatography and gas chromatography-mass spectrometry 529(1990)309
- Villén, T., see Hellgren, U. 528(1990)221
- Vindevoel, J. and Sandra, P.
Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483
- Vink, J., see Maris, F. 506(1990)211
- Vinther, A., Bjørn, S. E., Sørensen, H. H. and Søeberg, H.
Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175
- Virkajärvi, P., see Laakso, I. 505(1990)424
- Viscomi, G. C., Cardinali, C., Longobardi, M. G. and Verdini, A. S.
Large-scale purification of the synthetic peptide fragment 163-171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

- Visconti, A., Sibilia, A. and Palmisano, F.
Selective determination of altertoxins by
high-performance liquid chromatography
with electrochemical detection with dual
"in-series" electrodes 540(1991)376
- Visser, J., see Hondmann, D. H. A.
510(1990)155
- Visser, S., Slangen, C. J. and Rollema, H. S.
Phenotyping of bovine milk proteins by
reversed-phase high-performance liquid
chromatography 548(1991)361
- Vita, N., see Marchese, E. 504(1990)351
- Vittori Antisari, L., see Ciavatta, C.
509(1990)141
- Viveen, J., see Geerdink, R. B. 547(1991)478
- Vlatakis, G. and Bouriotis, V.
Affinity partitioning of restriction
endonucleases. Application to the
purification of EcoR I and EcoR V
538(1991)311
- Vletter, A. A., Burm, A. G. L., Breimer, L. T. M.
and Spierdijk, J.
High-performance liquid chromatographic
assay to determine midazolam and
flumazenil simultaneously in human plasma
530(1990)177
- Vodáková, Z., see Drozd, J. 518(1990)1
- Voelkel, A.
Topological indices as structural parameters.
Structure-retention relationships for
oxyethylene derivatives of alcohols,
thioalcohols and alkylamines 547(1991)247
- Voelter, W., see Grübler, G. 512(1990)249
- Vogels, G. D., see Gorris, L. G. M.
504(1990)421
- Vogt, A., see Gondolf, K. B. 521(1990)325
- Vogt, T. and Gülz, P.-G.
Isocratic column liquid chromatographic
separation of a complex mixture of
epicuticular flavonoid aglycones and
intracellular flavonol glycosides from *Cistus
laurifolius* L. 537(1991)453
- Voituriez, L., see Polverelli, M. 539(1991)373
- Volc, J., see Gabriel, J. 542(1991)200
- Volk, D., see Rudolph, M. 535(1990)263
- Völker, U., see De Vries, J. X. 529(1990)479
- Volkov, A. M., see Dmitrenko, A. V.
520(1990)21
- Volland, C., Sun, H. and Benet, L. Z.
Stereoselective analysis of fenoprofen and its
metabolites 534(1990)127
- Volland, J. P., see Tordjman, C. 532(1990)135
- Volmer, D., see Feltes, J. 518(1990)21
- Volmut, J., Matisová, E. and Ha, P. T.
Simultaneous determination of six
antiepileptic drugs by capillary gas
chromatography 527(1990)428
- Voloshina, N. V., see Berezkin, V. G.
520(1990)91
- Voloshina, N. V., see Gavrichev, V. S.
509(1990)59
- Volpe, N., see Siouffi, A. M. 550(1991)657
- Von Arx, R., see Karlaganis, G. 549(1991)229
- Voslář, J., see Porsch, B. 520(1990)295
- Votruba, M., see Tvrzická, E. 530(1990)424
- Vouros, P., see Mahmoud, M. E. 549(1991)416
- Vouros, P., see Young, D. C. 522(1990)295
- Vree, T. B., Beneken Kolmer, E. W. J., Martea,
M., Bosch, R. and Shimoda, M.
High-performance liquid chromatography of
sulphadimethoxine and its N₁-glucuronide,
N₄-acetyl and N₄-acetyl-N₁-glucuronide
metabolites in human plasma and urine
526(1990)119
- Vree, T. B., Martea, M. and Lewin, L. M.
High-performance liquid chromatography of
sulfapyridine and its acetyl and glucuronide
metabolites in rat and human urine
534(1990)214
- Vree, T. B., Steegers-Theunissen, R. P. M., Baars,
A. M. and Hekster, Y. A.
Direct high-performance liquid
chromatographic analysis of *p*-
hydroxyphenyl-phenylhydantoin
glucuronide, the final metabolite of
phenytoin, in human serum and urine
526(1990)581
- Vree, T. B., see Lansdorp, D. 528(1990)487
- Vree, T. B., see Wuis, E. W. 526(1990)575
- Vreeker, C. P., see De Kok, A. 507(1990)459
- Vryens, I., see Van den Eeckhout, E.
504(1990)113
- Vulpillat, M., see Mohler, J. 528(1990)415
- Vuorela, H., see Härmälä, P. 507(1990)367
- Vuorilehto, L., Salonen, J. S. and Anttila, M.
Determination of detomidine residues in
horse meat by negative-ion chemical
ionization mass spectrometry 530(1990)137
- Vyas, P. R., see Deshpande, M. V. 540(1991)397

W

- Wachter, J., see Fiedler, H.-P. 536(1991)343
- Wada, O., see Manabe, S. 529(1990)125
- Wada, Y., see Kinoshita, M. 529(1990)462

- Wadman, M. C., see Markin, R. S.
525(1990)464
- Wages, S. A., Patchen, L. C. and Churchill, F. C.
Analysis of blood and urine samples from *Macaca mulata* for pyronaridine by high-performance liquid chromatography with electrochemical detection 527(1990)115
- Wagner, F. W., see Torres, M. C. 522(1990)245
- Wagner, H., see Antus, S. 508(1990)212
- Wagner, H., see Bauer, R. 541(1991)464
- Wagner, H. P. and McGarrity, M. J.
The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119
- Wagner, J. R., Berger, M., Cadet, J. and Van Lier, J. E.
Analysis of thymidine hydroperoxides by post-column reaction high-performance liquid chromatography 504(1990)191
- Wahlund, K.-G., see Litzén, A. 548(1991)393
- Wainer, I. W., see Gimenez, F. 529(1990)339
- Wainer, I. W., see Motellier, S. 516(1990)365
- Wainer, I. W., see Silan, L. 532(1990)227
- Waisser, K., see Houngebdeji, N. 509(1990)400
- Wakai, J., see Haginaka, J. 502(1990)317
- Wakai, J., see Haginaka, J. 515(1990)59
- Wakai, J., see Haginaka, J. 529(1990)455
- Wakai, J., see Haginaka, J. 535(1990)163
- Wakiguchi, H., see Takechi, T. 532(1990)144
- Wakui, Y., see Takeda, S. 530(1990)447
- Wal, J. M., see Yvon, M. 539(1991)363
- Walisser, J. A., Burt, H. M., Valg, T. A., Kitts, D. D. and McErlane, K. M.
High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179
- Walker, D. D., see Hawthorne, S. B.
541(1991)185
- Walker, J. M., see Sweeney, P. J. 539(1991)501
- Walker, M. M., see Coleman, P. L.
512(1990)345
- Walker, N., see Mulholland, M. 550(1991)257
- Walker, T. A.
Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199
- Wallace, G. G., see Ge, H. 544(1991)305
- Wallace, R. A., Carnevali, O. and Hollinger, T. G.
Preparation and rapid resolution of *Xenopus* phosphatases and phosphatases by high-performance liquid chromatography 519(1990)75
- Wallach, D., see Novick, D. 510(1990)331
- Wallet, J.-C., see Gaydou, E. M. 549(1991)440
- Walling, J. F., see Wright, L. H. 540(1991)311
- Wallstén, M. and Lundahl, P.
Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Wallstén, M., see Yang, Q. 506(1990)379
- Walmsley, L. M., see Morris, G. R.
530(1990)377
- Walravens, J., see Motte, J. C. 507(1990)321
- Walsdorf, A., Forciniti, D. and Kula, M. R.
Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103
- Walsdorf, A. and Kula, M. R.
Properties of supports for the partition chromatography of proteins 542(1991)55
- Walsdorf, A., see Kula, M.-R. 548(1991)3
- Walter, H., Krob, E. J. and Wollenberger, L.
Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397
- Walter, U., see Halbrügge, M. 521(1990)335
- Walters, R. R., see Hsu, C. L. 550(1991)621
- Walther, W., see Vetter, W. 513(1990)405
- Walton, N. Y., see Gunawan, S. 503(1990)177
- Wan, H.
Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446
- Wan, H., see Guo, B. 505(1990)435
- Wang, G. M., see Zhang, J. Y. 521(1990)71
- Wang, H., Pacáková, V. and Štulík, K.
Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245
- Wang, H., see Xie, F. 526(1990)109
- Wang, H. J. and Thomas, R. L.
High-performance liquid chromatography for the assessment of glucoamylase, immobilized on metallic membranes 536(1991)107
- Wang, K.-T., see Lin, S.-L. 540(1991)392
- Wang, Q.-S., Zhu, C.-S. and Yan, B.-W.
Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method 513(1990)13
- Wang, S.-Y., see Hu, O. Y.-P. 523(1990)321
- Wang, T., Hartwick, R. A., Miller, N. T. and Shelly, D. C.
Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

- Wang, T. and Uden, P. C.
High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185
- Wang, Y., see Dantign, P. 545(1991)27
- Wang, Y.-P., see Chi, H. 543(1991)250
- Wangboonskul, J., see Taylor, R. B. 527(1990)490
- Wangsa, J. and Danielson, N. D.
Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171
- Wangsa, J., see Danielson, N. D. 544(1991)187
- Ward, L. D., Reid, G. E., Moritz, R. L. and Simpson, R. J.
Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199
- Warden, B., see Roman, M. 546(1991)341
- Wardlow, M. L., see Knapp, S. 526(1990)97
- Waring, M. J., see Alfredson, T. V. 507(1990)277
- Warner, F. P., see Lloyd, L. L. 512(1990)365
- Warren, Jr., F. V., see Bentrop, D. 535(1990)293
- Warren, W., Astephen, N. E. and Wheat, T. E.
Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13
- Warren, W., see Dion, D. M. 535(1990)127
- Warshawsky, A., see Hasson, H. 530(1990)219
- Warwick, P., see Smith, B. 547(1991)203
- Warzecha, K., see Ernemann, U. 528(1990)243
- Warzecha, L., Piwowar, Z. and Bodzek, D.
Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227
- Wasiak, W.
Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259
- Watabe, Y., see Gamoh, K. 515(1990)227
- Watanabe, K., see Nakanuma, R. 527(1990)208
- Watanabe, S., Saito, T., Sato, S., Nagase, S., Ueda, S. and Tomita, M.
Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264
- Watanabe, S., see Suzuki, T. 541(1991)359
- Watanabe, T., see Hayashida, M. 506(1990)133
- Watanabe, Y., see Ikeda, K. 513(1990)321
- Watanabe, Y., see Kamahori, M. 549(1991)101
- Watari, N., Mizumura, J. and Higuchi, S.
Simultaneous microdetermination of nicardipine and its pyridine metabolite in body fluids by capillary column gas chromatography with electron-capture detection 530(1990)438
- Watfa, R. R., see Stratford, M. R. L. 526(1990)383
- Watkins, J. C., see Ryan, T. W. 505(1990)273
- Watkins, J. C., see Udvarhelyi, P. M. 519(1990)69
- Watson, D. G., see Macfarlane, R. G. 532(1990)1
- Watson, D. G., see Macfarlane, R. G. 532(1990)13
- Watson, D. G., see Midgley, J. M. 527(1990)259
- Watson, J. T., Schultz, G. A., Tecklenburg, Jr., R. E. and Allison, J.
Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283
- Wattiau, P., see Motte, J. C. 507(1990)321
- Watts, III, B. A., see Gayden, R. H. 536(1991)265
- Wauters, D., De Mol, J. and De Temmerman, L.
Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375
- Wawrzekiewicz, K., see Łoborzewski, J. 520(1990)223
- Way, E. L., see Ikarashi, Y. 533(1990)23
- Weber, D. V. and Bailon, P.
Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59
- Weber, H., Marko, V., Kállay, Z., Trnovec, T. and Amlacher, R.
Determination of a cytostatic agent, bendamustine, in plasma using capillary gas chromatography with nitrogen-selective detection 525(1990)459
- Weber, L.
Rapid monitoring of chloramphenicol in microsamples of plasma by capillary gas chromatography with electron-capture detection 525(1990)454
- Weber, S. G., see Tramosch, W. G. 544(1990)113
- Weber, S. G., see Tsai, H. 515(1990)451
- Weber, S. G., see Tsai, H. 542(1991)345
- Weber, T. P., Carr, P. W. and Funkenbusch, E. F.
Evaluation of a zirconia-based carbon-polymer composite reversed-phase chromatographic support 519(1990)31

- Webster, K., see Whelpton, R. 526(1990)215
- Webster, R., see Camacho, P. L. 506(1990)611
- Wedzicha, B. L., Lo, M. F. and Donovan, T. J.
Counter-current chromatography of black tea infusions 505(1990)357
- Weems, H. B. and Yang, S. K.
Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[*a*]pyrene diol-epoxides by chiral stationary phase high-performance liquid chromatography 535(1990)239
- Wegscheider, W., see Djordjevic, N. M. 550(1991)27
- Wehr, T., see Zhu, M. 516(1990)123
- Wei, Y.-A. and Fang, J.-N.
Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227
- Weidenhamer, J. D., Jordan, E. D. and Fischer, N. H.
Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151
- Weigand, W., see Bauer, R. 541(1991)464
- Weinberger, R., Sapp, E. and Moring, S.
Capillary electrophoresis of urinary porphyrins with absorbance and fluorescence detection 516(1990)271
- Weinberger, R., see Fell, A. F. 535(1990)33
- Weinberger, R., see Posluszny, J. V. 507(1990)267
- Weinberger, S. B., see Shibasaki, S. 532(1990)249
- Weinreich, B., see Fischer, N. 538(1991)193
- Weinstein, G. S., see Rao, P. S. 536(1991)137
- Weisz, A., Langowski, A. J., Meyers, M. B., Thieken, M. A. and Ito, Y.
Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157
- Weitzhandler, M. and Hardy, M.
Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225
- Wekerle, H., see Giegerich, G. 528(1990)79
- Welch, R., see DeAngelis, R. 525(1990)389
- Welinder, B. S.
Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83
- Welinder, B. S. and Linde, S.
Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201
- Welinder, B. S. and Linde, S.
Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65
- Welinder, B. S. and Sørensen, H. H.
Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181
- Welinder, B. S., see Linde, S. 530(1990)29
- Welinder, B. S., see Linde, S. 536(1991)43
- Welinder, B. S., see Linde, S. 548(1991)195
- Welinder, B. S., see Linde, S. 548(1991)371
- Welling, G. W., Geurts, T., Van Gorkum, J., Damhof, R. A., Drijfhout, J. W., Bloemhoff, W. and Welling-Wester, S.
Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337
- Welling, G. W., Van Gorkum, J., Damhof, R. A., Drijfhout, J. W., Bloemhoff, W. and Welling-Wester, S.
A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235
- Welling-Wester, S., see Welling, G. W. 512(1990)337
- Welling-Wester, S., see Welling, G. W. 548(1991)235
- Welsch, T., Frank, H. and Vigh, G.
Silanol effects in reversed-phase liquid chromatography 506(1990)97
- Welz, W., Sattler, W., Leis, H.-J. and Malle, E.
Rapid analysis of non-esterified fatty acids as methyl esters from different biological specimens by gas chromatography after one-step esterification 526(1990)319
- Welz, W., see Leis, H.-J. 526(1990)169
- Welz, W., see Leis, H. J. 529(1990)299
- Wen, E., see Wuenschell, G. E. 543(1991)345
- Wen, X., see Zou, H. 523(1990)247
- Wenisch, E., Tauer, C., Jungbauer, A., Katinger, H., Faupel, M. and Righetti, P. G.
Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobilized membranes 516(1990)133
- Wenisch, E., see Jungbauer, A. 512(1990)157
- Wentworth, W.E., D'sa, E. D., Batten, C.F. and Chen, E. C.M.
Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

- Werner, A., Siems, W., Grune, T. and Schreiter, C.
Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311
- Werner, A., see Grune, T. 520(1990)411
- Werner, G., Schneider, V. and Emmert, J.
Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265
- Werner, I., see Fiedler, H.-P. 513(1990)255
- Wernstedt, C., see Renlund, S. 512(1990)325
- West, R. R. and Cardellina, II, J. H.
Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15
- Westerlund, D., see Fornstedt, T. 506(1990)61
- Westerlund, D., see Fornstedt, T. 535(1990)93
- Westlake, J. P., see Smith, R. M. 514(1990)97
- Weston, A., see Phillips, D. J. 536(1991)95
- Weston, S. I., Japp, M., Partridge, J. and Osselton, M. D.
Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277
- Wetlaufer, D. B., see Buckley, J. J. 518(1990)99
- Wetlaufer, D. B., see Gehas, J. 511(1990)123
- Weyker, C., see Miller, L. 511(1990)97
- Whatley, F. R., see Greenaway, W. 519(1990)145
- Whatley, F. R., see Greenaway, W. 543(1991)113
- Wheat, T. E., see Warren, W. 512(1990)13
- Wheat, T. E., see Young, P. M. 512(1990)273
- Wheatley, J. B.
Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243
- Wheelock, G. D., Sieber, K. P. and Hagedorn, H. H.
Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508
- Whelpton, R., Dudson, P., Cannell, H. and Webster, K.
Determination of prilocaine in human plasma samples using high-performance liquid chromatography with dual-electrode electrochemical detection 526(1990)215
- Whelpton, R., see Burton, L. C. 526(1990)159
- White, A. J., see Lavine, B. K. 542(1991)29
- Whitfield, L. R., see Bullen, W. W. 526(1990)266
- Whitfield, L. R., see Silan, L. 532(1990)227
- Whiting, G. S., see Abraham, M. H. 518(1990)329
- Whittington, D. E., see Hawthorne, S. B. 541(1991)185
- Widhalm, A., Schwer, C., Blaas, D. and Kenndler, E.
Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446
- Widmer, H. M., see Koch, L. 517(1990)395
- Wieling, J., Schepers, J., Hempenius, J., Mensink, C. K. and Jonkman, J. H. G.
Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101
- Wiemer, J., see Scherberich, J. E. 521(1990)279
- Wiener, H. L., Kramer, H. K. and Reith, M. E. A.
Separation and determination of sertraline and its metabolite, desmethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography 527(1990)467
- Wieserman, L. F., see Haky, J. E. 505(1990)307
- Wiesner, R., see Kühn, H. 520(1990)391
- Wijsbeek, J., see Chen, X. 529(1990)161
- Wikström, B., see Karamanos, N. K. 503(1990)421
- Wikström, M., see Eriksson, B.-M. 527(1990)11
- Wilce, M. C. J., Aguilar, M. I. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- Wilce, M. C. J., Aguilar, M. I. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CX. Principal component analysis of four sets of group retention coefficients derived from reversed-phase high-performance liquid chromatography of peptides 548(1991)105
- Wilchek, M., see Bayer, E. A. 510(1990)3
- Wildman, B. J., Jackson, P. E., Jones, W. R. and Alden, P. G.
Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

- Wiley, D. M., Szabo, I., Maguire, M. H., Finley, B. E. and Bennett, T. L.
Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73
- Wilhelm, D. and Kemper, A.
High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218
- Wilhelm, J. A., see Keswani, S. R. 534(1990)77
- Willemse, P. H. B., see Dikkeschei, L. D. 529(1990)145
- Willenbrock, F., see Deistung, J. 539(1991)485
- Williams, D. A., see Midgley, J. M. 527(1990)259
- Williams, D. T., Tran, Q., Fellin, P. and Brice, K. A.
Evaluation of gas chromatography-Fourier transform infrared spectroscopy-mass spectrometry for analysis of phenolic compounds 549(1991)297
- Williams, E., see Kuwahara, S. K. 534(1990)260
- Williams, G. H., see Underwood, R. H. 526(1990)180
- Williams, P. S. and Giddings, J. C.
Comparison of power and exponential field programming in field-flow fractionation 550(1991)787
- Williams, R. G. and Mitchell, H. D.
Computer spreadsheet calculation of the optimum temperature and column lengths for serially coupled capillary gas chromatographic columns 541(1991)59
- Willibey, B., see Dutta, P. K. 536(1991)113
- Wils, E. R. J. and Hulst, A. G.
Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151
- Wilson, D. W., see Rao, P. S. 536(1991)137
- Wilson, W. H., McNair, H. M. and Hyver, K. J.
Surface treatment effects in microcolumn liquid chromatography 540(1991)77
- Winefordner, J. D., see Berthod, A. 502(1990)305
- Winefordner, J. D., see Campiglia, A. D. 508(1990)37
- Wingeier, M. P., see Gluck, S. J. 547(1991)69
- Winkelmann, G., see Greiner, M. 502(1990)437
- Winnik, M. A., see Xu, R. 547(1991)434
- Wirth, H. J., Unger, K. K. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383
- Wise, L., see Stein, T. A. 507(1990)259
- Wise, S., see Duffield, A. M. 518(1990)215
- Wise, S. A., Sander, L. C., Lapouyade, R. and Garrigues, P.
Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111
- Wise, S. A., see Munder, A. 521(1990)63
- Wise, S. A., see Olsson, M. 537(1991)73
- Witkiewicz, Z., Mazurek, M. and Szulc, J.
Chromatographic analysis of chemical warfare agents (Review) 503(1990)293
- Witkiewicz, Z., see Nesterova, I. 537(1991)482
- Wium, C. A., see Uebel, R. A. 526(1990)293
- Wöber, A., see Ernemann, U. 528(1990)243
- Wojciechowski, F., see Lacroix, C. 525(1990)240
- Wójcik, A. B.
Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393
- Wojtaszek, P., see Stobiecki, M. 508(1990)391
- Wolf, B. A., Conrad-Kessel, W. and Turk, J.
Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325
- Wolf, H., see Koning, H. 533(1990)171
- Wolf, J. H. and Korf, J.
Improved automated precolumn derivatization reaction of fatty acids with bromomethylmethoxycoumarin as label 502(1990)423
- Wolf, T., see Fleminger, G. 510(1990)271
- Wolf, T., see Fleminger, G. 510(1990)311
- Wolfson, A. D., Motorin, Y. A., Ribkinska, T. I. and Beresten, S. F.
Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277
- Wollenberger, L., see Walter, H. 542(1991)397
- Wollensak, G., see Baier, G. 525(1990)319
- Wolozzczuk, W., see Missbichler, A. 510(1990)339
- Wolpers, S., see Schröder, B. 514(1990)241
- Wolski, T., see Łoborzewski, J. 520(1990)223
- Wolterink, E. P., see Te Booy, M. P. W. M. 503(1990)103
- Wolthers, B. G., see Dikkeschei, L. D. 529(1990)145

- Wolthers, B. G., see Van den Berg, G. A. 550(1991)239
- Wombacher, H., see Schmidt, A. H. 519(1990)379
- Wong, C. F., see Elrod, Jr., L. 519(1990)125
- Wong, G. S. K., see Lee, T. B. K. 523(1990)317
- Wong, Y. W. J. and Ludden, T. M.
Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1991)161
- Wongyai, S., Varga, J. M. and Bonn, G. K.
High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155
- Wood, C. L., see Thomas, L. C. 522(1990)117
- Wood, G. W., see Liu, D. 530(1990)235
- Wood, S. P., see McLeod, A. N. 502(1990)325
- Woodard, C. L., see Jakubowski, E. M. 528(1990)184
- Woolf, E., see Austin, D. 527(1990)182
- Woolf, E., see Posluszny, J. V. 507(1990)267
- Woolfson-Bartfeld, D., Grushka, E., Abramovich-Bar, S., Levy, S. and Bamberger, Y.
Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305
- Woolley, C. L., see Sumpter, S. R. 517(1990)503
- Workman, P., see Binger, M. 532(1990)321
- Wretensjö, I., Svensson, L. and Christie, W. W.
Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89
- Wright, L. H. and Walling, J. F.
Prediction of retention times in temperature-programmed multichromatography 540(1991)311
- Wrobel, J., see Hayball, P. J. 528(1990)526
- Wroblewski, K., see Otvos, Jr., L. 512(1990)265
- Wu, A. T. and Massey, I. J.
Simultaneous determination of ketorolac and its hydroxylated metabolite in plasma by high-performance liquid chromatography 534(1990)241
- Wu, C.-L., see Burger, B. V. 518(1990)207
- Wu, C.-Y., Li, H.-Y., Chen, Y.-Y. and Lu, X.-R.
Preparation and gas chromatographic characterization of some immobilized crown ether-polysiloxane stationary phases 504(1990)279
- Wu, H.-L., see Chen, S.-H. 502(1990)257
- Wu, M., see Pacáková, V. 520(1990)349
- Wu, S., see Hassanzadeh, M. K. 525(1990)133
- Wu, S., see Swerdlow, H. 516(1990)61
- Wu, S.-H., Lin, S.-L., Lai, S.-Y. and Chou, T.-H.
Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325
- Wu, S.-H., see Lin, S.-L. 540(1991)392
- Wu, S.-L., Teshima, G., Cacia, J. and Hancock, W. S.
Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115
- Wu, Z., Goodall, D. M., Lloyd, D. K., Massey, P. R. and Sandy, K. C.
Determination of enantiomeric purity of pacobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209
- Wuenschell, G. E., Wen, E., Todd, R., Shnek, D. and Arnold, F. H.
Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345
- Wuis, E. W., Janssen, M. G. A., Vree, T. B. and Van der Kleijn, E.
Determination of a dantrolene metabolite, 5-(*p*-nitrophenyl)-2-furoic acid, in plasma and urine by high-performance liquid chromatography 526(1990)575
- Wylie, P. L. and Oguchi, R.
Pesticide analysis by gas chromatography with a novel atomic emission detector 517(1990)131
- Wyss, R.
Chromatography of retinoids 531(1990)481
- Wyss, R. and Philipp, W.
Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorecamine and fluorescence detection 507(1990)187

X

- Xiang, B., see Fang, X. 514(1990)287
- Xianren, Q. and Baeyens, W.
Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362
- Xiao, H., see Shan, Z. L. 535(1990)207
- Xie, F., Wang, H., Shu, H., Li, J., Jiang, J., Chang, J. and Hsieh, Y.
Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109
- Xie, Y. S., Atkinson, J., Arnason, J. T., Morand, P. and Philogène, B. J. R.
Separation and quantification of 1,4-benzoxazin-3-ones and benzoxazolin-2-ones in maize root extract by high-performance liquid chromatography 543(1991)389
- Xu, H., see Liu, W. 547(1991)509
- Xu, M. and Tran, C. D.
High-performance liquid chromatographic separation of racemic and diastereomeric mixtures of 2,4-pentadienoate-iron tricarbonyl derivatives 543(1991)233
- Xu, R., Hu, Y., Winnik, M. A., Riess, G. and Croucher, M. D.
Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Y

- Yacoub, M. H., see Lachno, D. R. 525(1990)123
- Yacoub, M. H., see Smolenski, R. T. 527(1990)414
- Yadav, S. P., see Colilla, F. J. 548(1991)303
- Yadava, K. L., see Tiwari, B. B. 542(1991)537
- Yadava, K. L., see Tiwari, B. B. 547(1991)554
- Yagi, A., see Okamura, N. 542(1991)317
- Yaginuma, T., see Yoshioka, M. 515(1990)205
- Yagoubi, N., Baillet, A. E., Pellerin, F. and Bayloqç, D.
Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131
- Yamada, A., see Kondoh, Y. 541(1991)431
- Yamada, K., see Yamano, Y. 528(1990)199
- Yamada, M., see Ikai, Y. 541(1991)393
- Yamada, M., see Oka, H. 538(1991)149
- Yamada, T., Nonomura, S., Fujiwara, H., Miyazawa, T. and Kuwata, S.
Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475
- Yamada, T., see Hattori, H. 529(1990)189
- Yamada, T., see Kubota, K. 533(1990)255
- Yamada, Y., see Yamakawa, Y. 506(1990)319
- Yamada, Y., see Yamakawa, Y. 515(1990)563
- Yamagami, C., Ogura, T. and Takao, N.
Hydrophobicity parameters determined by reversed-phase liquid chromatography. I. Relationship between capacity factors and octanol-water partition coefficients for monosubstituted pyrazines and the related pyridines 514(1990)123
- Yamagishi, Y., see Yamano, Y. 528(1990)199
- Yamaguchi, C., see Qian, X.-X. 515(1990)257
- Yamaguchi, H., see Nishi, H. 539(1991)71
- Yamaguchi, K., see Sugimoto, S. 515(1990)483
- Yamaguchi, K., see Sugimoto, S. 547(1991)131
- Yamakawa, Y., Miyasaka, K., Ishikawa, T., Yamada, Y. and Okuyama, T.
High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads 506(1990)319
- Yamakawa, Y., Miyasaka, K., Ishikawa, T., Yamada, Y. and Okuyama, T.
High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563
- Yamamoto, F. M. and Rokushika, S.
Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3
- Yamamoto, H., Manabe, T. and Okuyama, T.
Apparatus for coupled high-performance liquid chromatography and capillary

- electrophoresis in the analysis of complex protein mixtures 515(1990)659
- Yamamoto, H., Nakamura, K., Nakatani, M. and Terada, H.
Determination of phospholipids on two-dimensional thin-layer chromatographic plates by imaging densitometry 543(1991)201
- Yamamoto, H., see Ito, H. 526(1990)397
- Yamamoto, H., see Nakano, K. 515(1990)537
- Yamamoto, H. Y., see Gilmore, A. M. 543(1991)137
- Yamamoto, K., see Adachi, J. 538(1991)331
- Yamamoto, K., see Jinno, K. 517(1990)193
- Yamamoto, M., see Miwa, H. 523(1990)235
- Yamamoto, M., see Okamoto, Y. 539(1991)221
- Yamamoto, S., Nomura, M. and Sano, Y.
Predicting the performance of gel-filtration chromatography of proteins 512(1990)77
- Yamamoto, S., Nomura, M. and Sano, Y.
Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89
- Yamamoto, S., see Hamano, T. 541(1991)265
- Yamamoto, S., see Nishioka, R. 526(1990)210
- Yamanaka, M., see Kojima, K. 525(1990)210
- Yamane, M., see Tatsuhara, T. 526(1990)507
- Yamane, Y., see Horie, M. 538(1991)484
- Yamano, Y., Nakai, H., Ogawa, T., Kanazawa, T., Morishita, N., Yamada, K. and Yamagishi, Y.
Determination of 4-cyano-5,5-bis(4-methoxyphenyl)-4-pentenoic acid in human plasma and platelets by gas chromatography-mass spectrometry 528(1990)199
- Yamasaki, Y., see Kato, Y. 502(1990)416
- Yamashita, K., Motohashi, M. and Yashiki, T.
High-performance liquid chromatographic determination of phenylpropanolamine in human plasma and urine, using column switching combined with ion-pair chromatography 527(1990)103
- Yamashita, K., Motohashi, M. and Yashiki, T.
Sensitive high-performance liquid chromatographic determination of propranolol in human plasma with ultraviolet detection using column switching combined with ion-pair chromatography 527(1990)196
- Yamashita, K., see Nakanuma, R. 527(1990)208
- Yamashita, M., see Matsumoto, U. 504(1990)69
- Yamauchi, S. and Mori, H.
Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305
- Yamauchi, Y., Kuwajima, M. and Saito, M.
Sample introduction and elution method for preparative supercritical fluid chromatography 515(1990)285
- Yamauchi, Y. and Saito, M.
Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237
- Yamauchi, Y., see Higashidate, S. 515(1990)295
- Yamauchi, Y., see Saito, M. 505(1990)257
- Yamazaki, M., see Fujii, Y. 508(1990)241
- Yamazaki, M., see Iwaki, K. 504(1990)359
- Yamazaki, S., Takeuchi, T. and Tanimura, T.
Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169
- Yamazaki, Y., Morohashi, N. and Hosono, K.
High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129
- Yamazaki, Y., see Harada, K.-I. 538(1991)203
- Yamori, M., see Gomita, Y. 528(1990)509
- Yan, B.-W., see Wang, Q.-S. 513(1990)13
- Yan, D. and Schwedt, G.
Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383
- Yanagihara, Y., see Noguchi, K. 506(1990)145
- Yanagihara, Y., see Ohtani, T. 515(1990)175
- Yanagihara, Y., see Seki, T. 515(1990)435
- Yanagihara, Y., see Uchida, T. 506(1990)327
- Yang, L., see Lian, D.-X. 542(1991)526
- Yang, M.-H., see Lin, C.-E. 515(1990)49
- Yang, Q. and Lundahl, P.
Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377
- Yang, Q., Wallstén, M. and Lundahl, P.
Lipid-vesicle-surface chromatography 506(1990)379
- Yang, Q., see Lundahl, P. 544(1991)283
- Yang, S. H., see Chen, B. H. 543(1991)147
- Yang, S. K., see Bao, Z. 536(1991)245
- Yang, S. K., see Lu, X.-L. 535(1990)229
- Yang, S. K., see Weems, H. B. 535(1990)239
- Yang, U.-C., see Maa, Y.-F. 508(1990)61
- Yang, Y.-B. and Regnier, F. E.
Coated hydrophilic polystyrene-based packing materials 544(1991)233
- Yang, Y. B., see Afeyan, N. B. 519(1990)1
- Yang, Y.-H., see Lin, C.-E. 515(1990)49
- Yang, Z.-C., see Cashman, J. R. 532(1990)405
- Yankofsky, S. A., see Goldstein, L. 510(1990)23

- Yapo, A., see Chenais, B. 539(1991)433
- Yasaka, T., see Nakano, K. 515(1990)537
- Yasaka, Y., Tanaka, M., Shono, T., Tetsumi, T. and Katakawa, J.
2-(2,3-Naphthalimino)ethyl
trifluoromethanesulphonate as a highly
reactive ultraviolet and fluorescent labelling
agent for the liquid chromatographic
determination of carboxylic acids
508(1990)133
- Yashiki, T., see Yamashita, K. 527(1990)103
- Yashiki, T., see Yamashita, K. 527(1990)196
- Yashin, Y. I., see Karabanov, N. T.
508(1990)193
- Yasuda, H., see Haginaka, J. 515(1990)59
- Yasuda, H., see Haginaka, J. 529(1990)455
- Yasuda, H., see Haginaka, J. 535(1990)163
- Yasuda, N., see Haginaka, J. 515(1990)59
- Yasuda, T., see Nakajima, K. 502(1990)379
- Yasuhara, A. and Shibamoto, T.
Determination of volatile aliphatic aldehydes
in the headspace of heated food oils by
derivatization with 2-aminoethanethiol
547(1991)291
- Yau, W. W., see Kirkland, J. J. 517(1990)377
- Yau, W. W., see Kirkland, J. J. 550(1991)799
- Ye, M., Ding, Y., Mao, J. and Shi, L.
High-performance vacancy gel permeation
chromatography 518(1990)238
- Ye, M., see Zhu, P. 511(1990)390
- Yeh, H.-W., see Kuo, K.-W. 543(1991)463
- Yeh, K. C., see Titus, D. C. 534(1990)87
- Yeh, Y.-C., see Kuo, K.-W. 543(1991)463
- Yeung, E. S., see Garner, T. W. 515(1990)639
- Yeung, E. S., see Pfeffer, W. D. 506(1990)401
- Yeung, E. S., see Taylor, J. A. 550(1991)831
- Ying, Q., see Greibrokk, T. 505(1990)283
- Yip, T.-T., see Hutchens, T. W. 536(1991)1
- Ylinen, M., Suhonen, P., Naaranlahti, T.,
Lapinjoki, S. P. and Huhtikangas, A.
Gas chromatographic-mass spectrometric
analysis of major indole alkaloids of
Catharanthus roseus 505(1990)429
- Yocklovich, S. G., see Ryan, T. W.
505(1990)273
- Yoder, R., see Roman, M. 546(1991)341
- Yokoo, Y., see Sugimoto, S. 515(1990)483
- Yokoo, Y., see Sugimoto, S. 547(1991)131
- Yokota, Y., see Hirokawa, T. 538(1991)403
- Yokota, Y., see Hirokawa, T. 545(1991)267
- Yokoyama, T. and Kinoshita, T.
High-performance liquid chromatographic
determination of proteins by post-column
fluorescence derivatization with thiamine
reagent 518(1990)141
- Yokoyama, T. and Kinoshita, T.
High-performance liquid chromatographic
determination of biotin in pharmaceutical
preparations by post-column fluorescence
reaction with thiamine reagent
542(1991)365
- Yokoyama, Y., see Jinno, K. 550(1991)325
- Yon Hin, B. F. Y., see Lowe, C. R.
510(1990)347
- Yonker, C. R. and Smith, R. D.
Sorption isotherms of mobile phase
components in capillary supercritical fluid
chromatography 505(1990)139
- Yonker, C. R. and Smith, R. D.
High-pressure and supercritical capillary
electrophoresis 517(1990)573
- Yonker, C. R. and Smith, R. D.
Sorption isotherms in supercritical fluid
chromatography (Review) 550(1991)775
- Yoshida, H., see Kaneta, T. 538(1991)385
- Yoshida, H., see Morita, I. 526(1990)367
- Yoshida, H., see Morita, I. 527(1990)127
- Yoshida, H., see Takada, K. 530(1990)212
- Yoshida, H., see Tanaka, S. 521(1990)158
- Yoshida, H., see Tanaka, S. 540(1991)475
- Yoshida, I., see Okamoto, M. 515(1990)43
- Yoshida, K., see Kurono, M. 532(1990)175
- Yoshida, M., see Adachi, Y. 530(1990)39
- Yoshida, M., see Nakashima, K. 530(1990)154
- Yoshida, M., see Niwa, T. 533(1990)145
- Yoshida, S., Urakami, K., Kito, M., Takeshima,
S. and Hirose, S.
High-performance liquid chromatography
with chemiluminescence detection of serum
levels of pre-column derivatized
fluoropyrimidine compounds 530(1990)57
- Yoshida, Y., see Asakawa, N. 541(1991)231
- Yoshida, Y., see Oda, Y. 541(1991)411
- Yoshikawa, H., see Takada, K. 530(1990)212
- Yoshikawa, M., Arashidani, K. and Kodama, Y.
Analysis of 3-hydroxybenzo[*a*]pyrene by
high-performance liquid chromatography
using a post-column method 532(1990)155
- Yoshimura, N., see Kinoshita, M. 529(1990)462
- Yoshino, Y., see Kamisaki, Y. 529(1990)417
- Yoshioka, M., Araki, H., Kobayashi, M.,
Kaneuchi, F., Seki, M., Miyazaki, T.,
Utsuki, T., Yaginuma, T. and Nakano, M.
Porous glass sheets for use in thin-layer
chromatography 515(1990)205
- Yoshioka, M., see Fujimori, H. 515(1990)363
- Yoshioka, M., see Fujimori, H. 528(1990)305
- Yoshioka, M., see Matsubayashi, K.
515(1990)547
- Yoshioka, M., see Matsumoto, M. 526(1990)1
- Yoshioka, M., see Tokuda, T. 530(1990)418
- Yoshiya, I., see Hosotsubo, K. K. 529(1990)223
- Yoshizawa, E., see Shoshihara, M. 529(1990)473
- Yoshizumi, H., see Niwa, T. 533(1990)145
- Yotsuyanagi, T., see Hoshino, H. 515(1990)603

- Young, D., Evans, P. C. and Paxton, J. W.
Quantitation of the antitumour agent N-[2-(dimethylamino)ethyl]acridine-4-carboxamide in plasma by high-performance liquid chromatography 528(1990)385
- Young, D. C., Vouros, P. and Holick, M. F.
Gas chromatography-mass spectrometry of conjugated dienes by derivatization with 4-methyl-1,2,4-triazoline-3,5-dione 522(1990)295
- Young, P. M. and Wheat, T. E.
Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273
- Yoza, N., see Baba, Y. 507(1990)103
- Yu, B., see Fang, X. 514(1990)287
- Yu, Q. and Do, D. D.
Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285
- Yu, S., see Liu, Y. 515(1990)169
- Yuan, D. and Pietrzyk, D. J.
Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357
- Yuki, H., see Kawasaki, H. 516(1990)450
- Yun, W.-X., see Lian, D.-X. 542(1991)526
- Yurek, D. A., Kuo, M. S. and Li, G. P.
Assay of methylthiolinosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184
- Yvon, M. and Wal, J. M.
Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363
- Yvon, M., see Scanniff, P. 539(1991)425
- Zaccaria, F., see Benassi, C. A. 502(1990)193
- Zafra-Polo, M. C., see Blazquez, M. A. 518(1990)230
- Zaiki, S., see Honda, S. 523(1990)189
- Zalesky, D. D., see Grotjan, H. E. 549(1991)153
- Zamai, M. and Fassina, G.
Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195
- Zamboni, R., see Nicoll-Griffith, D. 526(1990)341
- Zanetti, M., see Guenzi, A. 530(1990)397
- Zaniewski, R., see Hou, K. C. 525(1990)297
- Zanol, M. and Gastaldo, L.
High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211
- Zapponi, M. C., see Iadarola, P. 512(1990)165
- Zare, R. N., see Huang, X. 516(1990)185
- Zaschke, H., see Hahne, F. 520(1990)85
- Zaton, A., Quindos, G. and Ponton, J.
Determination of monosaccharides by high-performance liquid chromatography in systemic candidosis 525(1990)169
- Zee, J. A., see Fillion, L. 547(1991)105
- Zee, O. P., see Lee, H. S. 528(1990)425
- Zeece, M. G., see Krueger, R. J. 543(1991)451
- Zegers, C. P. G., see Eguchi, S. 516(1990)301
- Zegna, A., see Fishman, R. M. 532(1990)55
- Zeilinger, K., see Josić, D. 516(1990)89
- Zelenská, V., see Kaniansky, D. 502(1990)143
- Zelenský, I., see Gaš, B. 545(1991)225
- Zelenský, I., see Kaniansky, D. 502(1990)143
- Zelinko, A. P., see Skelly, N. E. 535(1990)199
- Zeller, K.-P., see Blanz, J. 532(1990)429
- Zeller, M., Kessler, R., Manz, H. J. and Székely, G.
Determination of disodium 3-amino-1-hydroxypropylidene-1,1-bisphosphonate pentahydrate 545(1991)421
- Zeman, I.
Chromatographic separation of surfactants. XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201
- Zeng, L., Zhang, R.-Y., Meng, T. and Lou, Z.-C.
Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247
- Zeng, S., see Furr, H. C. 527(1990)406
- Zentner, G. M., see Pogány, S. A. 508(1990)179
- Zhang, A., Ge, J., Guan, Z., Deng, J., Liu, H., Zhu, J., Fu, R., Huang, Z. and Zhang, B.
Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128
- Zhang, B., see Zhang, A. 521(1990)128
- Zhang, J. Y., Wang, G. M. and Qian, R.
Theory of temperature-programmed gas

Z

- chromatography. The method of moment analysis 521(1990)71
- Zhang, R.-Y., see Zeng, L. 513(1990)247
- Zhang, T.-Y., see Li, P. 538(1991)219
- Zhang, Y., Jacob, III, P. and Benowitz, N. L. Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnicotine 525(1990)349
- Zhang, Y., Zou, H. and Lu, P. Advances in expert systems for high-performance liquid chromatography 515(1990)13
- Zhang, Y., see Li, J. 550(1991)101
- Zhang, Y., see Lu, P. 509(1990)171
- Zhang, Y., see Zou, H. 522(1990)49
- Zhang, Y., see Zou, H. 523(1990)247
- Zhang, Y., see Zou, H. 545(1991)59
- Zheng, J., see Kassahun, K. 527(1990)327
- Zhou, F. L., Muller, D. and Jozefowicz, J. Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71
- Zhou, F. L., see Jacquot-Dourges, M. A. 539(1991)417
- Zhou, F. L., see Sinniger, V. 539(1991)289
- Zhou, L., see Lou, X. 514(1990)253
- Zhou, N. E., Mant, C. T., Kirkland, J. J. and Hodges, R. S. Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- Zhou, T.-H., see Chi, H. 543(1991)250
- Zhou, Y. and Sun, Z.-P. Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220
- Zhu, B.-Y., Mant, C. T. and Hodges, R. S. Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13
- Zhu, C.-S., see Wang, Q.-S. 513(1990)13
- Zhu, J., see Zhang, A. 521(1990)128
- Zhu, M., Rodriguez, R., Hansen, D. and Wehr, T. Capillary electrophoresis of proteins under alkaline conditions 516(1990)123
- Zhu, M., see Hu, H. 547(1991)494
- Zhu, P., Ye, M., Shi, L., Liu, H. and Fu, R. Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390
- Zhu, P. L., see Shan, Z. L. 535(1990)207
- Zhukhovitskii, A. A., see Guglya, E. B. 509(1990)157
- Zibarev, A. V., see Salenko, V. L. 549(1991)429
- Ziege, E. A., see Peyton, A. L. 529(1990)377
- Zigel, A. N., see Ryabikova, V. M. 520(1990)121
- Zimmerman, C. L., see Rimmel, R. P. 534(1990)109
- Zinapold, K., see Heizmann, P. 534(1990)233
- Zini, R., see Sebillé, B. 531(1990)51
- Ziolkowski, M. A., see Sapers, G. M. 503(1990)431
- Zobel, H., Helms, M., Heidrich, S. and Lehmann, A. Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27
- Zollinger, M., Amsler, U. and Brauchli, J. Quantification of N-acetylaspartylglutamate, an N-terminal blocked dipeptide neurotransmitter candidate, in brain slice superfusates by gas chromatography-mass spectrometry 532(1990)27
- Zou, H., Zhang, Y. and Lu, P. Quantitative correlation of the parameters $\log k'_w$ and $-S$ in the retention equation in reversed-phase high-performance liquid chromatographic and solvatochromic parameters 522(1990)49
- Zou, H., Zhang, Y. and Lu, P. Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59
- Zou, H., Zhang, Y., Wen, X. and Lu, P. Separation of phenylamine- and naphthylaminesulphonic acids by reversed-phase high-performance liquid chromatography 523(1990)247
- Zou, H., see Lu, P. 509(1990)171
- Zou, H., see Zhang, Y. 515(1990)13
- Zúbor, V., see Horváthová, M. 509(1990)213
- Zuccaro, P., Zuccaro, S. M., Pacifici, R., Pichini, S. and Boniforti, L. Determination of isosorbide-5-mononitrate in human serum by gas chromatography-mass spectrometry 525(1990)447
- Zuccaro, S. M., see Zuccaro, P. 525(1990)447
- Zuidema, J., see Kadir, F. 527(1990)461
- Zupp, T. A., see Mike, J. H. 518(1990)167
- Zürcher, G. and Da Prada, M. Simple automated high-performance liquid chromatographic column-switching technique for the measurement of dopa and 3-O-methyldopa in plasma 530(1990)253
- Zurth, C. and Kagels, F. Determination of onapristone and its N-desmethyl metabolite in human plasma or serum by high-performance liquid chromatography 532(1990)115
- Zwanziger, H., see Schmitz, S. J. 544(1991)381

SUBJECT INDEX

VOLUMES 501-550

A

Absorbance ratio

Separation and determination of molecular species of phosphatidylcholine in biological samples by high-performance liquid chromatography 507(1990)339

Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33

 α_1 -Acid glycoprotein column

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Active sites

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Activity coefficients

Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267

Acute toxicity data

Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523

Acylamide stationary phases

Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29

Adsorbate-ligand systems

High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Adsorbents

see also Affinity adsorbents

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Fate of superabsorbents in the environment. Analytical techniques 513(1990)93

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Carbon adsorbents in gas adsorption chromatography 520(1990)55

Preseparation of uranium by reversed-phase partition chromatography. Application to the determination of trace elements in nuclear-grade uranium compounds by inductively coupled plasma atomic emission spectrometry 537(1991)287

- Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C₁, C₂ and C₃ hydrocarbons 541(1991)75
- Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43
- Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59
- Adsorption**
Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1
- Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25
- Improvement of activated carbon for air sampling 503(1990)33
- Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411
- Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335
- Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329
- Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319
- Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271
- Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367
- High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101
- Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1
- Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91
- Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125
- Binding capacities of hydroxyapatite for globular proteins 515(1990)193
- Capillary electrophoresis of proteins under alkaline conditions 516(1990)123
- Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53
- Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77
- Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271
- Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47
- Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287
- Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91
- Determination of contributions of different types of solute-sorbent interactions in gas-adsorption chromatography by linear regression of adsorption energies 537(1991)295
- Behaviour of concanavalin A on DEAE-Sephadex and CM-Sephadex 537(1991)460

Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Separation of ^{125}I -labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid 543(1991)307

Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544

Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

Adsorption capacity

Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

Adsorption chromatography, salt-promoted

Salt-promoted adsorption chromatography 510(1990)47

Adsorption density distributions

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Adsorption isotherms

see also Freundlich isotherms

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495

Perturbation analysis of the influence of the isotherm coupling factor on the resolution between two compounds in chromatography 508(1990)27

Effect of pore size on the surface excess isotherm of silica packings 515(1990)159

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Sorption of primary *n*-alkanols on Tenax 518(1990)234

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Study of the interaction between two overloaded bands injected successively in non-linear chromatography 522(1990)1

Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography 537(1991)497

- Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography. A reply 537(1991)507
- Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285
- Effect of the intersection of the individual isotherms in displacement chromatography 541(1991)195
- Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19
- Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1
- Charged surface and mass transfer in dynamic ion exchangers 546(1991)17
- Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27
- Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25
- Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61
- High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147
- Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255
- Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43
- Metal affinity displacement chromatography of proteins 549(1991)89
- Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301
- Dependence of retention on the organic modifier concentration and multicomponent adsorption behavior in reversed-phase chromatography 550(1991)411
- Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775
- Adsorption isotherms, S shaped**
Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77
- Adsorption kinetics**
Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255
- Adsorption mechanism**
Molecular interactions in liquid chromatography 537(1991)33
- Adsorption-thermal desorption**
Adsorption/thermal desorption for the determination of volatile organic compounds in water 537(1991)321
- Affinity adsorbents**
Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171
- High-performance affinity chromatography of DNA 508(1990)279
- Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13
- Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71
- Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83
- High-performance affinity chromatography of concanavalin A 510(1990)95
- Tresyl-activated support for high-performance affinity chromatography 510(1990)101
- Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

- Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123
- High-performance affinity chromatography of basic fibroblast growth factor on polystyrene sulphonate resins modified with serine 510(1990)141
- Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149
- Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155
- Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165
- Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177
- Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197
- Composite affinity sorbents and their cleaning in place 510(1990)213
- One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239
- Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281
- Site-directed immobilization of proteins 510(1990)293
- Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311
- High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101
- Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337
- Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345
- High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219
- Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333
- Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised hapten 516(1990)433
- Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123
- Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53
- Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425
- Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1
- Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179
- Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199
- Hydrophobic interaction chromatography of proteins on Separon HEMA. II. Influence of sorbent modification on efficiency of separation 523(1990)131
- Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1
- Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

- High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155
- Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245
- Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289
- Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307
- Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315
- Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335
- Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417
- Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507
- Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103
- Model studies on iron(III) ion affinity chromatography. Interaction of immobilized metal ions with nucleotides 541(1991)333
- Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41
- Coated silica and its behaviour in dye-affinity chromatography 543(1991)9
- New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17
- Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220
- High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315
- Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25
- High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147
- Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229
- A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235
- Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243
- Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255
- High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207
- Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741
- Cascade-mode multiaffinity chromatography. Fractionation of human serum proteins 550(1991)751
- Affinity distribution**
Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77
- Affinity gel chromatography**
Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Affinity handles

Use of the 4-methoxy-4'-octyloxytrityl group as an affinity handle for the purification of synthetic oligonucleotides 541(1991)341

Affinity ligands

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Investigations of liquid-liquid partition chromatography of proteins 548(1991)3

Affinity partitioning

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Investigations of liquid-liquid partition chromatography of proteins 548(1991)3

Affinity purification

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Affinity-repulsion chromatography

Affinity-repulsion chromatography 510(1990)49

Affinophores

Progress in affinophoresis (Review) 510(1990)251

Agarose

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Ageing, stability of stationary phases

Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53

Air

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Air sampling

Improvement of activated carbon for air sampling 503(1990)33

Albernia porri

High-performance liquid chromatographic determination of tentoxin in fermentation of *Alternaria porri* (Ellis) Ciferri 539(1991)211

Albumin-binding ligands

Separation of albumin-binding ligands present in uremic serum by high-performance affinity chromatography 529(1990)424

Alkaline etch solutions

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Alkyl chain length

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Allium cepa

Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393

Alternating current plasma emission detector

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Althaea officinalis

Computer-aided optimization of high-performance liquid chromatographic analysis of flavonoids from some species of the genus *Althaea* 550(1991)71

Alumina supports

Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Aluminium, immobilized

Recognition of phosphate groups by immobilized aluminium(III) ions 539(1991)327

Aluminum ion complexation

Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349

Amino cartridge

Improvement of chemical analysis of antibiotics. XVII. Application of an amino cartridge to the determination of residual sulphonamide antibacterials in meat, fish and egg 541(1991)393

3-(β -Aminoethoxy)propylsilica

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297

Aminopropylsilica

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Chromatographic stability of silica-based aminopropyl-bonded stationary phases 543(1991)1

Analysis of variance

Effect of stationary phase on predictions of the statistical model of overlap from gas chromatograms 550(1991)135

Andrade equation

Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521

Anhydrotrypsin-immobilized precolumn

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Anion exchangers

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101

Universal stationary phase for the separation of anions on suppressor-based and single-column ion chromatographic systems 546(1991)89

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Low-capacity latex-coated resins for anion chromatography 547(1991)11

High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117

Ion chromatography of inorganic iodine species using C_{18} reversed-phase columns coated with cetyltrimethylammonium 549(1991)265

Antibody-antigen complexes

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

Antibody density

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Antibody ligands

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Antigen concentration

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Apricot puree

Characterization of volatile components in apricot purées by gas chromatography-mass spectrometry 518(1990)221

Aqueous streams

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

Arachis hypogaea

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Argentation chromatography

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765

Association constants

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383

Asymmetry factors

Characterization of reversed phases by chemometric methods 544(1991)381

Atmosphere, Titan

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Atmospheric precipitation

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Atmospheric pressure chemical ionization

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Atomic emission detector

Pesticide analysis by gas chromatography with a novel atomic emission detector 517(1990)131

Atomic emission spectroscopy

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Automation

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Automated high-resolution two-dimensional liquid chromatographic system for the rapid and

sensitive separation of complex peptide mixtures
515(1990)313

Gas chromatographic determination of phenol
compounds with automatic continuous extraction
and derivatization 518(1990)59

Improvements in automated analysis of
catecholamine and related metabolites in
biological samples by column-switching high-
performance liquid chromatography
541(1991)273

Fully automatic high-performance liquid
chromatographic optimization 550(1991)27

Autosamplers

Compensated delay volume as an approach to
improve the inter-laboratory transferability of
gradient high-performance liquid
chromatographic assays 540(1991)373

Avidin-biotin technique

Application of avidin-biotin technology to
affinity-based separations (Review) 510(1990)3

Studies on the interaction of a surface-bound
ligand with a multi-valent high-molecular-weight
ligate. The biotinylcellulose-avidin system
510(1990)23

Purification of gonadotropin releasing hormone
receptors using the avidin-biotin technique
510(1990)233

Axial-beam absorbance detection

Axial-beam absorbance detection for capillary
electrophoresis 550(1991)831

Axial dispersion

Influence of thermal variation of diffusion
coefficient on non-equilibrium plate height in
capillary zone electrophoresis 517(1990)521

B

Background electrolyte

Selection of the background electrolyte
composition with respect to electromigration
dispersion and detection of weakly absorbing
substances in capillary zone electrophoresis
545(1991)239

Bacterial fermentations

Applications of high-performance liquid
chromatography in bacteriology. I.
Determination of metabolites (Review)
515(1990)415

Bacteriology

Applications of high-performance liquid
chromatography in bacteriology. I.
Determination of metabolites (Review)
515(1990)415

Band broadening

Variance contributions to band spread in
capillary zone electrophoresis 504(1990)1

Solutions of the equilibrium and semi-equilibrium
models of chromatography 506(1990)495

Thermal model of capillary electrophoresis and a
method for counteracting thermal band
broadening 516(1990)191

Dispersion in the interstitial space of packed
columns 517(1990)31

Direct deconvolution of Tung's integral equation
using a multi-Gaussian function model for
instrumental band broadening in gel-permeation
chromatography 522(1990)57

High-performance liquid chromatographic
computer simulation based on a restricted multi-
parameter approach. II. Applications
535(1990)75

Efficiency in chiral high-performance ligand-
exchange chromatography. Influence of the
complexation process, flow-rate and capacity
factor 542(1991)221

Anomalous bandspreading of
ethylenediaminetetraacetato-chromium(III) ion in
reversed-phase high-performance liquid

chromatography. An example of slow equilibrium kinetics 545(1991)123

Two-dimensional viscous flow analysis in a micro flow-cell of an ultraviolet absorption detector for high-performance liquid chromatography 549(1991)101

Band interaction

Study of the interaction between two overloaded bands injected successively in non-linear chromatography 522(1990)1

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Band migration

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Band overlap

Preparative high-performance liquid chromatography based on reversed-phase gradient elution. Optimum experimental conditions for heavily overloaded separation 540(1991)21

Band profiles

see also Peak shape

Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263

Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77

Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography 537(1991)497

Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography. A reply 537(1991)507

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1

Equilibrium elution chromatography. The column-origin boundary condition 550(1991)247

Band spacing

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Bands, touching

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

Bandwidth

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75

Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179

Betula pendula

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Bile salts

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Binary adsorption isotherm

Dependence of retention on the organic modifier concentration and multicomponent adsorption behavior in reversed-phase chromatography 550(1991)411

Binary mixtures

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

Binary systems

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Effect of pore size on the surface excess isotherm of silica packings 515(1990)159

Protein–ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Binding capacity

Effects of isotherm non-linearity on the determination of the binding constant in affinity chromatography 504(1990)55

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155

Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41

New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17

Binding constants

Effects of isotherm non-linearity on the determination of the binding constant in affinity chromatography 504(1990)55

Binding sites

High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

Bioautography

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Biological monitoring

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Biomarkers

Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Biomass pyrolysis

Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263

Biomass tar

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Biomimetic dye sorbent

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383

Biosensors

Biosensors (Review) 510(1990)347

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Biospecific adsorption

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Biospecific ligands

Investigations of liquid–liquid partition chromatography of proteins 548(1991)3

Biota orientalis

Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography–mass spectrometry of the picolinyl ester derivatives 543(1991)257

Biphasic liquid systems

Practical approach to high-speed counter-current chromatography 550(1991)677

Blood cells, peripheral

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity

factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Blotting

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Boiling point

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Bonded phases, characterization

Design requirements of silica-based matrices for biopolymer chromatography 544(1991)413

Book reviews

Principles and practice of chromatography (by B. Ravindranath) 503(1990)471

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Chromatographic analysis of alkaloids (by M. Popl, J. Fährnich and V. Tatar) 545(1991)221

Countercurrent chromatography: apparatus, theory and applications (by W. D. Conway) 547(1991)560

Boronate ligands

New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17

Boundary conditions

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Equilibrium elution chromatography. The column-origin boundary condition 550(1991)247

Breakthrough curves

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Breath analysis

Identification of exposure markers in smokers' breath 511(1990)291

Brine

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Buffer concentration

Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223

Buffer systems

Quantitation of insulin injection by high-performance liquid chromatography and high-performance capillary electrophoresis 549(1991)357

Butter

Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection 543(1991)69

C

Calcium antagonists

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Capacity factors

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica

column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267

Characterization of reversed phases by chemometric methods 544(1991)381

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37

Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography 550(1991)397

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Capillary columns

see also Columns

Displacement chromatography on packed capillary columns 502(1990)11

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformate 509(1990)33

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Behaviours of siloxane polymers containing phenyl or silarylene as stationary phases for high-temperature gas chromatography 514(1990)259

Isotachophoresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Design of liquid chromatography capillary columns 517(1990)297

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

Electrically driven open-tubular liquid chromatography 517(1990)557

Chromatographic characteristics of capillary packed columns with increased pressure drop 520(1990)91

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

High-performance liquid chromatography-time-of-flight mass spectrometry and its application to peptide analyses 536(1991)143

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Surface treatment effects in microcolumn liquid chromatography 540(1991)77

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Prediction of retention times in temperature-programmed multichromatography 540(1991)311

- Computer spreadsheet calculation of the optimum temperature and column lengths for serially coupled capillary gas chromatographic columns 541(1991)59
- Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434
- High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811
- Capillary columns, coated**
Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69
- Capillary electrophoresis of proteins under alkaline conditions 516(1990)123
- Capillary columns, coaxial**
Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167
- Capillary columns, inner diameter**
Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223
- Capillary DNA chromatography**
Application of capillary DNA chromatography to detect AIDS virus (HIV-1) DNA in blood 533(1990)87
- Capillary electrophoresis**
Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247
- Feasibility of capillary zone electrophoresis with suppression of electroendosmotic flow in completely closed systems 503(1990)245
- Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449
- Variance contributions to band spread in capillary zone electrophoresis 504(1990)1
- Secondary equilibria and their interaction with chromatographic transport 506(1990)45
- Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113
- Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis 507(1990)125
- Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. I. Isotachopheresis with two leading ions 508(1990)3
- Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. II. Migration behaviour in capillary zone electrophoresis 508(1990)19
- Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203
- Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279
- Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57
- Determination of arbutin in *uva-ursi* folium (bearberry leaves) by capillary zone electrophoresis 514(1990)383
- Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389
- Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639
- Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653
- Recent developments in electrophoretic methods (Review) 516(1990)3
- Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33
- Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

- Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61
- Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69
- Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79
- High-performance capillary electrophoresis of hydrophobic membrane proteins 516(1990)89
- Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99
- Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115
- Capillary electrophoresis of proteins under alkaline conditions 516(1990)123
- Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobilized membranes 516(1990)133
- Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147
- Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157
- Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167
- Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175
- Continuous sample collection in capillary zone electrophoresis by coupling the outlet of a capillary to a moving surface 516(1990)185
- Thermal model of capillary electrophoresis and a method for counteracting thermal band broadening 516(1990)191
- Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins 516(1990)219
- Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223
- Non-uniform electrical field effect caused by different concentrations of electrolyte in capillary zone electrophoresis 516(1990)233
- Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Capillary electrophoresis of urinary porphyrins with absorbance and fluorescence detection 516(1990)271
- Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287
- Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521
- Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189
- Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Determination of absolute mobilities, pK values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407
- Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385
- Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393
- Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506
- Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

- Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343
- Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483
- Capillary electrophoresis in [²H]water solution 541(1991)489
- Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173
- Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459
- Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483
- Z-Shaped flow cell for UV detection in capillary electrophoresis 543(1991)439
- Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451
- Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177
- Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239
- Determination of halofuginone in feedstuffs by the combination of capillary isotachopheresis and capillary zone electrophoresis in a column-switching system 545(1991)307
- Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331
- Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379
- Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397
- Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437
- Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445
- Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411
- Determination of organic acids in food samples by capillary electrophoresis 546(1991)423
- Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431
- Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445
- Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459
- Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544
- Capillary electrophoretic separation in both H₂O- and ²H₂O-based electrolytes can provide more information on tryptic digests 547(1991)551
- Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381
- Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345
- Quantitation of insulin injection by high-performance liquid chromatography and high-performance capillary electrophoresis 549(1991)357
- Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375
- Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446

High-performance capillary electrophoresis of proteins. Sodium dodecyl sulphate–polyacrylamide gel-filled capillary column for the determination of recombinant biotechnology-derived proteins 550(1991)823

Axial-beam absorbance detection for capillary electrophoresis 550(1991)831

Capillary electrophoresis, coupling to gel permeation chromatography

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Capillary electrophoresis, high pressure

High-pressure and supercritical capillary electrophoresis 517(1990)573

Capillary flow cell

Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357

Capillary isotachopheresis

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Use of cyclodextrins in the isotachopheretic determination of various inorganic anions 518(1990)189

Isotachopheretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Determination of disodium 3-amino-1-hydroxypropylidene-1,1-bisphosphonate pentahydrate 545(1991)421

Characterization of humic substances by capillary isotachopheresis 545(1991)461

Capillary outlet interface

Continuous sample collection in capillary zone electrophoresis by coupling the outlet of a capillary to a moving surface 516(1990)185

Carbochrome

Carbon adsorbents in gas adsorption chromatography 520(1990)55

Carbon adsorbents

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Carbon black

Carbon adsorbents in gas adsorption chromatography 520(1990)55

Carbon number

Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145

Carbotrap

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Carbowax 20M

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Carcinus maenas

Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

Carrier composition

Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393

Carrier effect

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography–particle beam-mass spectrometry 549(1991)237

Carrier electrolytes

Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431

Carrier media

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Carriers

Large-scale purification of the synthetic peptide fragment 163–171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Catalytic effects

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Cation-exchange membranes

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Cation exchangers

see also Ion exchangers

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13

Cell culture extracts

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Cell partitioning

Partitioning of cells in dextran–poly(ethylene glycol) aqueous phase systems. A study of settling

time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Cellulose-coated silica

Coated silica and its behaviour in dye-affinity chromatography 543(1991)9

Centrifugal affinity chromatography

Centrifugal affinity chromatography 510(1990)205

Centrifugal counter-current chromatography

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Centrifugal partition chromatography

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Chaotropic ions

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Charge-based transient model

Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249

Charge coupled device

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Charge determination

Determination of the charge of ions by partition coefficient measurements in gel permeation chromatography 504(1990)403

Charge heterogeneity

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Chelating agents

Formazan derivatives as the precolumn derivatization reagents in a coupled high-

performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Chelating resins

Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169

Chelidonium majus

Reversed-phase high-performance liquid chromatographic separation of tertiary and quaternary alkaloids from *Chelidonium majus* L. 543(1991)123

Chemical ionization

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Chemical weapons

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Chemiluminescence detector

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with

peroxyoxalate chemiluminescence detection 515(1990)577

Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Chemometrics

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Characterization of reversed phases by chemometric methods 544(1991)381

Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393

Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159

Chemotaxonomy

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

China

Environmental applications of ion chromatography in China 546(1991)317

Chiral additives

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Chiral derivatization

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of trimetoquinol hydrochloride by derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate and application to the optical purity testing of drugs 539(1991)71

Chiral recognition

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Chiral selectors

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Separation and estimation of small amounts of the enantiomers of carbidopa and methyl dopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Chiral stationary phases, GC

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chiral stationary phases, LC

Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287

- Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115
- Direct liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445
- Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601
- Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89
- Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97
- (*S*)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181
- Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195
- Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375
- Optical resolution of flavanones by high-performance liquid chromatography on various chiral stationary phases 514(1990)147
- Optical resolution of racemic compounds on chiral stationary phases of modified cellulose 515(1990)85
- Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441
- Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313
- Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365
- Enantiomer separation of diacid-diacylglycerol mixtures by high-performance liquid chromatography on a chiral column 519(1990)237
- Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271
- Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285
- Fluorescence detection of the enantiomers of halofantrine at picomole levels using chiral high-performance liquid chromatography 519(1990)387
- High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373
- Separation of hydroxylated polyenoic fatty acid enantiomers on Pirkle-type chiral phase high-performance liquid chromatographic columns 520(1990)391
- Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122
- Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134
- Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23
- Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195
- High-performance liquid chromatographic enantioseparation of intermediates relating to the total synthesis of (-)-physostigmine 523(1990)317

- Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213
- Resolution of enantiomeric lorazepam and its acyl and O-methyl derivatives and racemization kinetics of lorazepam enantiomers 535(1990)229
- Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[a]pyrene diol-epoxides by chiral stationary phase high-performance liquid chromatography 535(1990)239
- Determination of saterinone enantiomers in plasma samples with an internal standard using a Chiralcel OD column. Fractionation and reversed-phase chromatography 535(1990)263
- Chromatographic resolution of 1,2-amino alcohols on a chiral stationary phase containing N,N'-(3,5-dinitrobenzoyl)-*trans*-1,2-diaminocyclohexane. Theoretical and practical aspects 539(1991)25
- (*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83
- Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207
- Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113
- Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129
- Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145
- Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392
- Enantiomeric separation of racemic thiosulphinate esters by high-performance liquid chromatography 541(1991)464
- High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129
- Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105
- High-performance liquid chromatographic separation of racemic and diastereomeric mixtures of 2,4-pentadienoate-iron tricarbonyl derivatives 543(1991)233
- Preparation and evaluation of chiral high-performance liquid chromatographic stationary phases of mixed character (π -donor and π -acceptor) for the resolution of racemic compounds 543(1991)277
- Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299
- Chromatographic separation of the optical isomers of naproxen 543(1991)355
- Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43
- Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115
- Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31
- Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45
- Chiral stationary phases derived from tyrosine (Review) 550(1991)357
- Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621
- Chroma extraction**
Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157

Chromatofocusing

Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133

Change of counter ion concentration and of resolving power in a chromatofocusing run 519(1990)217

Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 1028 545(1991)189

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Chromatographic reactors

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Chromatographic theory

Secondary equilibria and their interaction with chromatographic transport 506(1990)45

Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3

Dispersion in the interstitial space of packed columns 517(1990)31

Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57

Molecular interactions in liquid chromatography 537(1991)33

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

Equilibrium elution chromatography. The column-origin boundary condition 550(1991)247

Mechanism of liquid adsorption chromatography in thin-layer chromatography with ternary mobile phases 550(1991)645

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Chromatophoresis

Recent developments in electrophoretic methods (Review) 516(1990)3

Cibacron Blue F3GA-modified silica

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383

Cigarette smoke

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Cigarette smoking, marker compounds

Identification of exposure markers in smokers' breath 511(1990)291

Circuit boards

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Circular dichroism spectrophotometry

Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265

Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407

Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327

Clean-up methods

Determination of penicillin G in milk by high-performance liquid chromatography with automated liquid chromatographic cleanup 507(1990)177

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Separation and determination of lanatosides in *Digitalis lanata* leaves by high-performance liquid chromatography 508(1990)241

Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection 508(1990)357

Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

Simple method for determination of the cephalosporin DQ-2556 in biological fluids by high-performance liquid chromatography 515(1990)547

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

On-line sample clean-up of fermentation broths and substrates prior to the liquid chromatographic separation of carbohydrates 523(1990)173

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Determination of nine acidic herbicides in water and soil by gas chromatography using an electron-capture detector 537(1991)385

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Post-extraction solvent flush of the pressure restrictor in supercritical fluid extraction 543(1991)187

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Determination of phenoxyacid herbicides in water 547(1991)478

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

Coal liquids

Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609

Coal tar pitch

Capillary gas chromatographic and combined gas chromatography-mass spectrometric study of the volatile fraction of a coal tar pitch using OV-1701 stationary phase 539(1991)157

Coelution

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Coil planet centrifuge

Practical approach to high-speed counter-current chromatography 550(1991)677

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Co-ion, step change

Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331

Colloids

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Column design

Theoretical optimization of open-tubular columns for liquid chromatography with respect to mass loadability 506(1990)185

Column efficiency

Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19

Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75

Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221

Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Column inlet pressure

Chromatographic characteristics of capillary packed columns with increased pressure drop 520(1990)91

Column overloading

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Column packing techniques

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Column parameters

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

Column performance

Optimization of the experimental conditions in

preparative liquid chromatography with touching bands 517(1990)229

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Optimisation of frontal chromatography by partial loading 545(1991)27

Column resistance

Surface treatment effects in microcolumn liquid chromatography 540(1991)77

Columns

see also Capillary columns

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

Packed columns in supercritical fluid chromatography (Review) 505(1990)3

Design of liquid chromatography capillary columns 517(1990)297

Short columns for gas chromatography packed with plasma-modified silica gels 520(1990)33

Systematic approach to the isolation, correction, and prevention of liquid chromatographic column problems 544(1991)3

Columns, microbore

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Columns, series-coupled

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3

Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267

Column saturation capacity

Theoretical study of the effect of a difference in column saturation capacities for the two

components of a binary mixture on their elution band profiles and separation in non-linear chromatography 511(1990)1

Column stability

Chromatographic stability of silica-based aminopropyl-bonded stationary phases 543(1991)1

Column switching

Use of column switching for the determination of niacinamide in compound feed 502(1990)79

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution 507(1990)95

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 515(1990)313

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141

Analysis of carbamazepine in serum by liquid chromatography with direct sample injection and surfactant-containing eluents 535(1990)293

Liquid chromatography-mass spectrometry system using column-switching techniques 541(1991)231

Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

Column temperature

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Column test procedure

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Competition model

Fundamental study of hydroxyapatite high-performance liquid chromatography. II.

Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Complex formation

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385

Compositional distribution

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Computer-assisted chromatography

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Computer spreadsheet calculation of the optimum temperature and column lengths for serially coupled capillary gas chromatographic columns 541(1991)59

Computer spectrochromatography. Principles and practice of multi-channel chromatographic data processing 542(1991)247

Optimized isocratic separation of major carboxylic acids in wine 542(1991)277

Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51

Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77

Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach 550(1991)87

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

Computer-assisted method development

Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method 513(1990)13

Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. I. Theory and verification 535(1990)55

Computer assisted internal standard selection for reversed-phase liquid chromatography 535(1990)199

Computer-graphic analysis

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Computer programs

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Towards a chromatographic quantitor 506(1990)265

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Advances in expert systems for high-performance liquid chromatography 515(1990)13

Computer simulation

Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. I. Theory and verification 535(1990)55

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75

Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Optimisation of frontal chromatography by partial loading 545(1991)27

Computer-aided simulation of electromigration 545(1991)225

Concentration detection limit

Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177

Concentration effects

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Concentration probability profiles

Equilibrium elution chromatography. The column-origin boundary condition 550(1991)247

Concentration profiles

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Concurrent solvent evaporation

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Conductance, limiting ionic equivalent

Measurement of limiting ionic equivalent conductance by single-column ion chromatography 535(1990)207

Conductance, specific

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Conductivity detector

Simultaneous conductivity and potentiometric detector for miniaturized liquid chromatography and flow analysis 540(1991)41

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Conformational analysis

Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Conformational changes

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Conformational isomers

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Congo Red affinity chromatography

Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379

Continuous extraction

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Continuous-flow fast atom bombardment

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Continuous monitoring

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

Controlled pore glass

Controlled-pore glass as a stationary phase in chromatography (Review) 544(1991)137

Controlled thermal degradation

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Converse displacement

Study of the interaction between two overloaded bands injected successively in non-linear chromatography 522(1990)1

Convex gradients

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Cooperative binding interactions

Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245

Coordination complexes

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Correlation chromatography

Selective determination of trace levels of phenol in river water using electrochemical concentration

modulation correlation chromatography
506(1990)201

Correspondence factor analysis

Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393

Corrosion products

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

Cosmetics

Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377

Coulombic interactive regions

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Counter-current chromatography

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Counter-current chromatography of black tea infusions 505(1990)357

Recent advances in counter-current chromatography (Review) 538(1991)3

Counter-current chromatography (Review) 538(1991)27

Dual counter-current chromatography —its applications in natural products research (Review) 538(1991)37

Applications of analytical high-speed counter-current chromatography in natural products chemistry (Review) 538(1991)45

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). I. Design of the apparatus and studies on retention of stationary phase 538(1991)59

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). II. Speculation on the

hydrodynamic mechanism in stationary phase retention 538(1991)67

Improved high-speed counter-current chromatograph with three multilayer coils connected in series. IV. Evaluation of preparative capability with large multilayer coils 538(1991)81

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Solvent selection guide for counter-current chromatography 538(1991)109

Separation of rare earth elements by high-speed counter-current chromatography 538(1991)133

Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157

Synthesis and characterization of N-bromoacetyl-3,3',5-triiodo-L-thyronine 538(1991)165

Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203

Foam counter-current chromatography of bacitracin. II. Continuous removal and concentration of hydrophobic components with nitrogen gas and distilled water free of surfactants or other additives 538(1991)213

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

Separation of quassinoids from *Ailanthus altissima* by high-speed counter-current chromatography 538(1991)227

Practical approach to high-speed counter-current chromatography 550(1991)677

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Counter-current distribution

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Forced-flow multi-phase liquid extraction, a separation method based on relative and absolute counter-current distribution. I. Description of the method and basic possibilities 523(1990)43

Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79

Counter-current fractional extraction

Continuous separation of lanthanides by counter-current fractional extraction 538(1991)125

Counter ions

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Change of counter ion concentration and of resolving power in a chromatofocusing run 519(1990)217

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

Coupling point pressure

Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

Coupling yield

Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367

Craig distribution

Preparative high-performance liquid chromatography based on reversed-phase gradient elution. Optimum experimental conditions for heavily overloaded separation 540(1991)21

Critical micelle concentration

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Critical temperature

Retention studies in supercritical fluid chromatography 505(1990)161

Cross-axis synchronous flow-through coil planet centrifuge

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). I. Design of the apparatus and studies on retention of stationary phase 538(1991)59

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). II. Speculation on the hydrodynamic mechanism in stationary phase retention 538(1991)67

Cross-linking

Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327

Cryogenic trapping

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Crystal structure

Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct

experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125

Curie-point pyrolysis

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Current

Determination of pI by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms 545(1991)403

Cyanidation process liquors

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Cyano-bonded silica

Characterization of cyano bonded silica phases from solid-phase extraction columns. Correlation of surface chemistry with chromatographic behavior 542(1991)205

 β -Cyclodextrin bonded phases

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Cyclohexane extraction

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Cylindrical lens

Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357

D

Dairy products

Determination of iodide in dairy products and table salt by ion chromatography with electrochemical detection 518(1990)268

Darcy's law

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

Data acquisition

Data acquisition and digital filtering in analytical isotachopheresis 545(1991)337

Deactivated metal capillary columns

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Dead time

Temperature dependence of dead time as determined by methane retention in open-tubular capillary gas chromatography 547(1991)239

Deconvolution

Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51

Deflection selectivity

Two-dimensional field-flow fractionation 504(1990)247

Deflocculating solvent

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Dehydration

Investigation of phase transitions in the CaSO₄(s)-H₂O(g) system by chromatographic methods 520(1990)157

Delay volume

Compensated delay volume as an approach to improve the inter-laboratory transferability of gradient high-performance liquid chromatographic assays 540(1991)373

Denaturation

Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113

Densimeter detector

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Densitometry

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Derivatization, electrophoresis

Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343

Derivatization, GC

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Determination of primary and secondary aliphatic amines in the environment as sulphonamide derivatives by gas chromatography-mass spectrometry 503(1990)369

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (R)- or (S)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

Gas chromatographic determination of sterols in fat-soluble concentrates obtained from plant materials 509(1990)79

Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Gas chromatographic method for the assay of aliphatic and aromatic sulphonates as their *tert.*-butyldimethylsilyl derivatives 513(1990)61

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427

Determination of clenbuterol in bovine plasma and tissues by gas chromatography-negative-ion chemical ionization mass spectrometry 518(1990)41

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides 519(1990)263

- Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201
- Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89
- Gas chromatographic separation of diastereomeric esters of α -alkyl- α -amino acids on dimethylpolysiloxane 521(1990)109
- Gas chromatography-mass spectrometry of conjugated dienes by derivatization with 4-methyl-1,2,4-triazoline-3,5-dione 522(1990)295
- Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273
- Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1
- Capillary gas chromatographic behavior of stereoisomeric bile acids with a *vicinal* glycol structure by their "mixed" alkylboronate derivatives 537(1991)345
- Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259
- Determination of phosgene as its N,N,N',N'-tetraethylurea derivative by gas chromatography 538(1991)435
- Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441
- Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447
- Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141
- Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232
- Location of double bonds in polyunsaturated fatty acids by gas chromatography-mass spectrometry after 4,4-dimethylloxazoline derivatization 541(1991)89
- Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography-mass spectrometry of the picolinyl ester derivatives 543(1991)257
- Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291
- Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299
- Derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 547(1991)307
- Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325
- Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501
- Cyclic aryleneazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429
- Derivatization, LC**
Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178
- Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317
- Improved automated precolumn derivatization reaction of fatty acids with bromomethylmethoxycoumarin as label 502(1990)423
- Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115
- High-performance liquid chromatographic determination of selected amino acids in rat brain

by precolumn derivatization with phenylisothiocyanate 503(1990)177

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

High-performance liquid chromatographic determination of guanidino compounds by automated pre-column fluorescence derivatization 506(1990)279

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorecamine and fluorescence detection 507(1990)187

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

2-(2,3-Naphthalimino)ethyl trifluoromethanesulphonate as a highly reactive ultraviolet and fluorescent labelling agent for the liquid chromatographic determination of carboxylic acids 508(1990)133

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test 511(1990)131

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Normal-phase chromatography and post-column colorimetric detection of abamectin-8,9-oxide 511(1990)353

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29

Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179

Application of micro-scale liquid chromatography with fluorescence detection to the determination of thiols 514(1990)189

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography–ultraviolet/fluorescence detection 515(1990)337

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic–spectrophotometric system for trace metal determination 515(1990)603

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Derivatization–liquid chromatographic assay of chloroacetaldehyde in biological samples 518(1990)385

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337

High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373

Separation of hydroxylated polyenoic fatty acid enantiomers on Pirkle-type chiral phase high-performance liquid chromatographic columns 520(1990)391

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235

Determination of sterigmatocystin in fermentation broths by reversed-phase high-performance liquid chromatography using post-column fluorescence enhancement 523(1990)305

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

High-performance liquid chromatography with chemiluminescence detection of serum levels of pre-column derivatized fluoropyrimidine compounds 530(1990)57

Post-column reaction detection and flow injection analysis 535(1990)41

Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[*a*]pyrene diol-epoxides by chiral stationary phase high-performance liquid chromatography 535(1990)239

High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211

High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Automated phenylthiocarbonyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277

Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443

Separation of rare earth elements by high-speed counter-current chromatography 538(1991)133

Determination of trace elements by ion chromatography. I. Beryllium 538(1991)365

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of trimetoquinol hydrochloride by derivatization with 2,3,4,6-tetra-*O*-acetyl- β -*D*-glucopyranosyl isothiocyanate and application to the optical purity testing of drugs 539(1991)71

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as

8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Amino acid analysis using derivatization with 9-fluorenylmethyl chloroformate and reversed-phase high-performance liquid chromatography 540(1991)177

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Optimized high-performance liquid chromatographic procedure for the separation and quantification of the main folacins and some derivatives. I. Chromatographic system 540(1991)207

Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

Resolution of 2,3,4,6-tetra-*O*-acetyl- β -*D*-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431

High-performance liquid chromatographic assay of thiomersal (thimerosal) as the ethylmercury dithiocarbamate complex 542(1991)137

High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365

Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243

Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorecamine 548(1991)319

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography–electrochemical detection 550(1990)585

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621

Derivatization, SFC

Separation of amphetamines by supercritical fluid chromatography 515(1990)385

Derivatization of hydroxyeicosatetraenoic acid methyl esters with pentafluorobenzoic anhydride

and analysis with supercritical fluid chromatography–chemical ionization mass spectrometry 543(1991)405

Derivatization, TLC

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Desirability functions

Multiple-criteria optimization 550(1991)15

Desorption

Improvement of activated carbon for air sampling 503(1990)33

Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43

Desorption kinetics

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

Detection, computer-aided

Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33

Detection agents, TLC

Localization of amino acids on thin-layer chromatograms with acetylacetone–formaldehyde reagent 537(1991)494

Detection limit

Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

Detection profiles

Computer spectrochromatography. Principles and practice of multi-channel chromatographic data processing 542(1991)247

Detection sensitivity

Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431

Detector cell design

Responses of different UV-visible detectors in high-performance liquid chromatographic measurements when the absolute number of moles of an analyte is measured 518(1990)135

Detector design

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Detectors

Towards a chromatographic quantitator 506(1990)265

Detectors, electrophoresis

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Z-Shaped flow cell for UV detection in capillary electrophoresis 543(1991)439

Isotachophoresis in open-tubular fused-silica capillaries with on-column multi-wavelength detection 545(1991)299

Axial-beam absorbance detection for capillary electrophoresis 550(1991)831

Detectors, FFF

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Detectors, FIA

Simultaneous conductivity and potentiometric detector for miniaturized liquid chromatography and flow analysis 540(1991)41

Detectors, GC

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Determination of aliphatic amines by gas and high-performance liquid chromatography 507(1990)241

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Application of gas chromatography with electron-capture detection to trace analysis of halogenated compounds 509(1990)115

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

Pesticide analysis by gas chromatography with a novel atomic emission detector 517(1990)131

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Calcul de la composition, avec une constante de proportionnalité, de mélanges à partir du chromatogramme obtenu par détection partagée entre deux détecteurs 519(1990)159

Radiofrequency detector for gas chromatography 520(1990)97

- Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141
- Effect of temperature on the sensitivity of the photoionization detector 540(1991)441
- Determination of dimethyl sulphate in air by gas chromatography with flame photometric detection 541(1991)459
- Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355
- Study of large sample volume injection in a capillary gas chromatographic-Fourier transform infrared system using a retention gap column 547(1991)494
- Evaluation of gas chromatography-Fourier transform infrared spectroscopy-mass spectrometry for analysis of phenolic compounds 549(1991)297
- Cyclic arylenazachalogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429
- Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461
- Detectors, LC**
- Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21
- Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121
- Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275
- Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305
- Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337
- Identification and determination of sulphamethazine and N⁴-acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371
- Evaluation of refractive index artifacts in liquid chromatographic absorbance detection. Extension to non-ideal injection and gradient elution 503(1990)127
- Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155
- Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189
- High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217
- Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of ceruloplasmin 503(1990)237
- Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113
- High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434
- Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319
- Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133
- Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

- Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409
- Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417
- Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423
- Coupling of microcolumn high-performance liquid chromatography with Fourier transform infrared spectrometry 506(1990)443
- Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141
- Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187
- Determination of aliphatic amines by gas and high-performance liquid chromatography 507(1990)241
- Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253
- Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267
- Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303
- Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439
- Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37
- Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301
- Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245
- Analysis of δ -L- α -amino adipyl-L-cysteinyl-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347
- Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357
- Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167
- Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195
- Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409
- Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159
- Determination of enantiomeric purity of paclobutrazol and fluzafop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209
- Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354
- Filled tubes as generation elements in electrokinetic detection in liquid chromatography 514(1990)161

- Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171
- Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213
- High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257
- Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265
- Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357
- Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407
- Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585
- Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450
- Responses of different UV-visible detectors in high-performance liquid chromatographic measurements when the absolute number of moles of an analyte is measured 518(1990)135
- Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167
- Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383
- Post-column reaction detection and flow injection analysis 535(1990)41
- Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113
- Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137
- Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289
- Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259
- Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87
- Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91
- Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91
- Simultaneous conductivity and potentiometric detector for miniaturized liquid chromatography and flow analysis 540(1991)41
- Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187
- Selective determination of avertins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376
- Ultrasonic nebulizer interface system for coupling liquid chromatography and electrothermal atomic absorption spectrometry 541(1991)243
- Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Twenty years of ion chromatography (Review) 546(1991)3

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Detection in ion chromatography (Review) 546(1991)175

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Two-dimensional viscous flow analysis in a micro flow-cell of an ultraviolet absorption detector for high-performance liquid chromatography 549(1991)101

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Separation and identification of sulfurized alkylphenols in oil by high-performance liquid chromatography with evaporative light scattering and mass spectrometric detection 549(1991)247

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585

Detectors, SFC

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215

Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Electrochemical detection system for supercritical fluid chromatography 519(1990)256

Detectors, TLC

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Determination of phospholipids on two-dimensional thin-layer chromatographic plates by imaging densitometry 543(1991)201

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Deuterium exchange

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography–negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime–trimethylsilyl derivatives 547(1991)325

Deuterium oxide chemical ionization

Speciation of polyhydroxy compounds by gas chromatography–mass spectrometry with deuterium oxide chemical ionization 520(1990)209

Dialysis

Simple equilibrium dialysis–high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxypsoralen bound to human albumin 539(1991)443

Diamond dust particles

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Diastereomer separation

Analytical gas chromatographic separations of diastereomeric *tert.*-butylmethoxyphenylsilyl ethers 514(1990)305

High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Diesel fuels

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Difference spectroscopy

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Differential pulse polarography

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Differential refractometry

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Differential viscometry

Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113

Diffusion

High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101

Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223

Diffusion coefficients

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Diffusion coefficients, binary

Gas chromatographic methods for the assessment of binary diffusion coefficients for compounds in the gas phase 522(1990)277

Diffusion-controlled reactions

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Diffusivity

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

Digital filtering

Data acquisition and digital filtering in analytical isotachopheresis 545(1991)337

Di(methacryloyloxymethyl)naphthalene-divinylbenzene

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Dimethylaminopropylcarbamylopentyl-Sepharose

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Diode-array detector

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Identification and determination of sulphamethazine and N⁴-acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid

chromatography with photodiode-array detection and curve resolution 520(1990)383

Computer assisted internal standard selection for reversed-phase liquid chromatography 535(1990)199

Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Diol bonded phase

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Direct current plasma atomic emission spectroscopy

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Direct liquid introduction

Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461

Discharge tubes

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Discontinuous extraction

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Dispersion

Dispersion in the interstitial space of packed columns 517(1990)31

Nature of the eddy dispersion in packed beds 535(1990)189

Dispersive interactions

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

Displacement

Secondary equilibria and their interaction with chromatographic transport 506(1990)45

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Displacement chromatography

Displacement chromatography on packed capillary columns 502(1990)11

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285

Comparison of the performances of overloaded elution and displacement chromatography for a given column 540(1991)1

Effect of the intersection of the individual isotherms in displacement chromatography 541(1991)195

Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145

Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267

Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43

Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59

Metal affinity displacement chromatography of proteins 549(1991)89

Large-scale purification of the synthetic peptide fragment 163-171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Displacement effect

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Displacement electrophoresis

see Isotachopheresis

Displacement model

Separation of ^{125}I -labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid 543(1991)307

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

Displacement thin-layer chromatography

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Displacement train

Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285

Displacers

Metal affinity displacement chromatography of proteins 549(1991)89

Large-scale purification of the synthetic peptide fragment 163–171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Displacer salts

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

Dissociation constants

Influence of dissociation equilibria on the elution behaviour of the sample anion in anion chromatography 508(1990)51

Determination of absolute mobilities, pK values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407

Distribution coefficients

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Separation of simple ions by gel chromatography. I. Simple model of separation for single-salt systems 511(1990)59

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

Quantitative correlations between solute molecular structure and solubility in supercritical fluids 517(1990)449

Distribution constant

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Distribution functions

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO_2 545(1991)135

Distribution processes

Secondary equilibria and their interaction with chromatographic transport 506(1990)45

Disturbance peak

Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile–water mixtures 550(1991)285

DNA sequencing

Recent developments in electrophoretic methods (Review) 516(1990)3

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Double-layer tube-type passive sampler

Evaluation tests and applications of a double-layer tube-type passive sampler 522(1990)285

Drinking water

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Drug delivery systems

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion

chromatography to the evaluation of biodegradable poly[(chloromethoxytrialanine methyl ester)phosphazenes] 536(1991)255

Drug-free plasma profiles

Evaluation of drug-free plasma profiles by high-performance liquid chromatography following on-line solid-phase extraction 528(1990)277

Drug-protein binding

Separation procedures used to reveal and follow drug-protein binding 531(1990)51

Drylab GC

Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Dual counter-current chromatography

Dual counter-current chromatography —its applications in natural products research (Review) 538(1991)37

Dual-label radiometry

Quantitative comparisons of reaction products using liquid chromatography with dual-label radioactivity measurements 522(1990)117

Dual zone materials

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Dye-adsorbents

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates

to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Dye-affinity resins

High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101

Dye immobilization

Immobilized Cibacron Blue —leachables, support stability and toxicity on cultured cells 539(1991)355

Dye-ligand chromatography

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Dye-ligands

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Dynamically coated phases

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Dynamically modified silica

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Bare silica, dynamically modified with long-chain quaternary ammonium ions — the technique of choice for more reproducible selectivity in reversed-phase high-performance liquid chromatography (Review) 544(1991)53

Dynamic exchange

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Dynamic impregnation

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Dynamic ion exchangers

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Dynamic solvent effect

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

E**Eddy dispersion**

Nature of the eddy dispersion in packed beds 535(1990)189

Edman degradation

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbonyl peptides 548(1991)303

Effective mobility

Use of cyclodextrins in the isotachopheric determination of various inorganic anions 518(1990)189

Use of crown ethers in the isotachopheric determination of metal ions 523(1990)281

Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345

Egg yolk

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Eigenpeaks

Secondary equilibria and their interaction with chromatographic transport 506(1990)45

Electrical field, non-uniform

Non-uniform electrical field effect caused by different concentrations of electrolyte in capillary zone electrophoresis 516(1990)233

Electrically driven open-tubular liquid chromatography

Electrically driven open-tubular liquid chromatography 517(1990)557

Electroblotting

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

Electrochemical biosensors

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Electrochemical chromatography

Electrochemical chromatography --packings, hardware and mechanisms of interaction (Review) 544(1991)305

Electrochemical concentration modulation

Selective determination of trace levels of phenol in river water using electrochemical concentration modulation correlation chromatography 506(1990)201

Electrochemical detector

Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217

- Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of ceruloplasmin 503(1990)237
- Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466
- High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434
- Determination of tyramine in cheese by reversed-phase high-performance liquid chromatography with amperometric detection 504(1990)441
- Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417
- Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423
- Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253
- Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439
- Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245
- Analysis of δ -L- α -aminoadipyl-L-cysteinyl-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347
- Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167
- Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171
- Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389
- Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213
- High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257
- Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265
- Electrochemical detection of dipeptides and dipeptide amides 515(1990)451
- Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Electrochemical detection system for supercritical fluid chromatography 519(1990)256
- Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307
- High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273
- Selective determination of avertins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376
- Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273
- Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Detection in ion chromatography (Review) 546(1991)175

Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

Determination of free nitrilotriacetic acid in environmental water samples by ion chromatography with potentiometric and amperometric detection with a copper electrode 546(1991)311

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Determination of total nitrogen in food, environmental and other samples by ion chromatography after Kjeldahl digestion 546(1991)405

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

Electrochemical oxidation

Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167

Electrochromatography

Electrochromatography with continuous sample introduction 515(1990)645

Electrodes

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

Electrodes, Kel-F wax/graphite

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Electrodialysis

Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Electroelution

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

Electroendosmosis

Capillary electrophoresis of proteins under alkaline conditions 516(1990)123

Capillary electrophoresis of urinary porphyrins with absorbance and fluorescence detection 516(1990)271

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

Electrokinetic chromatography

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Electrokinetic chromatography, capillary

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Electrokinetic detector

Filled tubes as generation elements in electrokinetic detection in liquid chromatography 514(1990)161

Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Electrolytes

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Electromigration

Computer-aided simulation of electromigration 545(1991)225

Electromigration dispersion

Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239

Electron capture detector

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

Cyclic arylenazachalogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Electron donor-acceptor chromatography

Salt-promoted adsorption chromatography 510(1990)47

Electron-impact mass spectrometry

Determination of mass screen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Electroosmotic flow

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

High-pressure and supercritical capillary electrophoresis 517(1990)573

Isotachopheresis with electroosmotic flow: open *versus* closed systems 537(1991)429

Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483

Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173

Isotachopheresis in open systems. Problems in quantitative analysis 545(1991)283

Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445

Electrophoresis

see also Capillary electrophoresis

Purification and characterization of heimentin, a fibrinogenolytic protease from the leech *Haementeria ghilianii* 502(1990)359

Progress in affinopheresis (Review) 510(1990)251

Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57

Determination of arbutin in *uva-ursi* folium (bearberry leaves) by capillary zone electrophoresis 514(1990)383

Recent developments in electrophoretic methods (Review) 516(1990)3

Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Thermal model of capillary electrophoresis and a method for counteracting thermal band broadening 516(1990)191

Non-uniform electrical field effect caused by different concentrations of electrolyte in capillary zone electrophoresis 516(1990)233

Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287

Determination of absolute mobilities, pK values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407

Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506

Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365

Capillary electrophoresis in $[^2H]$ water solution 541(1991)489

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Ionophoretic studies on mixed complexes. Metal-nitritotriacetate-penicillamine system 542(1991)537

Z-Shaped flow cell for UV detection in capillary electrophoresis 543(1991)439

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177

Computer-aided simulation of electromigration 545(1991)225

Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239

Determination of halofuginone in feedstuffs by the combination of capillary isotachopheresis and capillary zone electrophoresis in a column-switching system 545(1991)307

Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544

Capillary electrophoretic separation in both H_2O - and 2H_2O -based electrolytes can provide more information on tryptic digests 547(1991)551

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446

Axial-beam absorbance detection for capillary electrophoresis 550(1991)831

Electrophoretic concentration

Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79

Electrophoretic mobility

see Mobility, electrophoretic

Electrophoretic stacking

Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79

Electrospray ionization mass spectrometry

Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157

Electrostatic binding domain

High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

Electrostatic interaction

Extension of the electrostatic retention model of reversed-phase ion-pair chromatography to include the simultaneous effects of the organic modifier and the pairing ion 506(1990)85

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

Electrostatic potential

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Electrostatic theory

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Electrothermal atomic absorption spectrometry

Ultrasonic nebulizer interface system for coupling liquid chromatography and electrothermal atomic absorption spectrometry 541(1991)243

Elemental speciation

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Element-selective detector

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Eluent suppression

Twenty years of ion chromatography (Review) 546(1991)3

Elution band profile

Theoretical study of the effect of a difference in column saturation capacities for the two components of a binary mixture on their elution band profiles and separation in non-linear chromatography 511(1990)1

Elution behaviour

Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile-water mixtures 550(1991)285

Elution order

Product purity as a function of elution order 503(1990)403

Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305

Elution overload chromatography

Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77

Elution profile

Resolution of unresolved peaks containing unknown components by high-performance liquid chromatography with multi-wavelength detection 506(1990)223

Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495

Perturbation analysis of the influence of the isotherm coupling factor on the resolution between two compounds in chromatography 508(1990)27

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Elution strength

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Elution volume

Effects of isotherm non-linearity on the determination of the binding constant in affinity chromatography 504(1990)55

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

High-performance vacancy gel permeation chromatography 518(1990)238

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

Empore sheets

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Enantiomeric ratio

Direct liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445

Enantiomer separation

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

Direct liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445

Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives 504(1990)450

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Direct high-performance liquid chromatographic determination of the enantiomers of alluzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601

High-performance liquid chromatographic resolution of racemic 1,4-benzodiazepin-2-ones by means of a β -cyclodextrin silica bonded chiral stationary phase 506(1990)617

Direct chromatographic separation of the enantiomers of oxiracetam 508(1990)208

Enantiomeric separation of racemic pterocarpanes by high-performance liquid chromatography on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 508(1990)212

Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

- Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97
- Direct separation and optimization of timolol enantiomers on a cellulose tris-3,5-dimethylphenylcarbamate high-performance liquid chromatographic chiral stationary phase 511(1990)109
- Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115
- Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167
- (*S*)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181
- Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195
- Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209
- Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315
- Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370
- Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375
- Optical resolution of flavanones by high-performance liquid chromatography on various chiral stationary phases 514(1990)147
- Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253
- Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325
- Optical resolution of racemic compounds on chiral stationary phases of modified cellulose 515(1990)85
- Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221
- Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233
- Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441
- Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475
- Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313
- Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365
- Effect of $^2\text{H}_2\text{O}$ on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277
- Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69
- Enantiomer separation of diacid-diacylglycerol mixtures by high-performance liquid chromatography on a chiral column 519(1990)237

- High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides 519(1990)263
- Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285
- High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373
- Separation of hydroxylated polyenoic fatty acid enantiomers on Pirkle-type chiral phase high-performance liquid chromatographic columns 520(1990)391
- Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29
- Gas chromatographic separation of diastereomeric esters of α -alkyl- α -amino acids on dimethylpolysiloxane 521(1990)109
- Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122
- Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134
- Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23
- Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195
- High-performance liquid chromatographic enantioseparation of intermediates relating to the total synthesis of (-)-physostigmine 523(1990)317
- Liquid chromatographic analysis of propafenone enantiomers in human plasma 527(1990)79
- Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213
- Resolution of enantiomeric lorazepam and its acyl and O-methyl derivatives and racemization kinetics of lorazepam enantiomers 535(1990)229
- Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[a]pyrene diol-epoxides by chiral stationary phase high-performance liquid chromatography 535(1990)239
- Determination of saterinone enantiomers in plasma samples with an internal standard using a Chiralcel OD column. Fractionation and reversed-phase chromatography 535(1990)263
- Chromatographic resolution of 1,2-amino alcohols on a chiral stationary phase containing N,N'-(3,5-dinitrobenzoyl)-*trans*-1,2-diaminocyclohexane. Theoretical and practical aspects 539(1991)25
- Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55
- Reversed-phase high-performance liquid chromatographic separation of the enantiomers of trimetoquinol hydrochloride by derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate and application to the optical purity testing of drugs 539(1991)71
- (*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83
- Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113
- Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129
- Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145
- Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157
- Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

- Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217
- Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297
- Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349
- On-line determination and resolution of verapamil enantiomers by high-performance liquid chromatography with column switching 541(1991)411
- Enantiomeric separation of racemic thiosulphinates by high-performance liquid chromatography 541(1991)464
- High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129
- Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161
- Stereochemical analysis of a leukotriene related hydroxypentadecadiene using a chiral high-performance liquid chromatography column and diode array detection 542(1991)189
- Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221
- Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105
- On-line determination of the optical purity of nicotine 543(1991)129
- High-performance liquid chromatographic separation of racemic and diastereomeric mixtures of 2,4-pentadienoate-iron tricarbonyl derivatives 543(1991)233
- Preparation and evaluation of chiral high-performance liquid chromatographic stationary phases of mixed character (π -donor and π -acceptor) for the resolution of racemic compounds 543(1991)277
- Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287
- Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299
- Chromatographic separation of the optical isomers of naproxen 543(1991)355
- Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397
- Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43
- Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437
- Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31
- Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45
- Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59
- Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283
- Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621

Enantioselective ligands

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Enantioselectivity

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Enantiomeric separation of amines using N-benzyloxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Endcapping

Resolution of lutein and zeaxanthin using a non-endcapped, lightly carbon-loaded C₁₈ high-performance liquid chromatographic column 543(1991)137

Endothermic interactions

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Energy metabolism

Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421

Enthalpy

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Enthalpy changes

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Enthalpy of interaction

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas-solid system 520(1990)105

Enthalpy of volatilization

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Entropy

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Entropy of transfer

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Environmental analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Environmental applications of ion chromatography in China 546(1991)317

Enzyme immobilization

Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335

Enzyme-linked immunosorbent assay

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

Enzyme reactors

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Enzymic oxidation

Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321

Equations of state

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

Equilibrium distribution

Molecular interactions in liquid chromatography 537(1991)33

Equilibrium kinetics

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Equivalent temperature

Calculation of programmed temperature gas chromatographic characteristics from isothermal data. III. Predicted retention indices and equivalent temperatures 504(1990)269

Erythrocytes

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

Progress in affino-phoresis (Review) 510(1990)251

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application

to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Essential oils

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Eupergit C

Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149

Evaporation rate

Headspace gas chromatography with open-tubular columns for determining the evaporation rate of essential oils, perfumery compositions and perfumes 520(1990)169

Evaporative light-scattering detector

Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91

Separation and identification of sulfurized alkylphenols in oil by high-performance liquid chromatography with evaporative light scattering and mass spectrometric detection 549(1991)247

Exclusion limits

Effect of composition of polyacrylamide gels on exclusion limits 535(1990)173

Experimental design

Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159

Expert systems

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Validation of an expert system for the selection of initial high-performance liquid chromatographic conditions for the analysis of basic drugs 506(1990)211

Advances in expert systems for high-performance liquid chromatography 515(1990)13

Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach 550(1991)87

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Exponential field programming

Comparison of power and exponential field programming in field-flow fractionation 550(1991)787

Extended ideal chromatographic reactor

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Extraction cell

Post-extraction solvent flush of the pressure restrictor in supercritical fluid extraction 543(1991)187

Supercritical fluid extraction from a brown alga by stagewise pressure increase 543(1991)413

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243

Extraction disks

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

Extraction methods

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Gas chromatographic determination of sterols in fat-soluble concentrates obtained from plant materials 509(1990)79

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Selective extraction of native β -lactoglobulin from whey 539(1991)455

Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91

F

Factorial design

Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159

Fast atom bombardment

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Fast atom bombardment, continuous flow

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Fast atom bombardment, frit

Identification of trichothecenes by frit-fast atom bombardment liquid chromatography-high-resolution mass spectrometry 538(1991)323

Feed flow-rate

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Fermentation broths

Rapid and sensitive detection of citrinin production during fungal fermentation using

high-performance liquid chromatography
535(1990)317

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Field-flow fractionation

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Retention effects in thermal field-flow fractionation 517(1990)377

Sedimentation field-flow fractionation for pigment quality assessment 517(1990)395

Evaluation of pinched inlet channel for stopless flow injection in steric field-flow fractionation 517(1990)423

Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393

Comparison of power and exponential field programming in field-flow fractionation 550(1991)787

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Field-flow fractionation, focusing

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Field-flow fractionation, potential barrier

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Field-flow fractionation, sedimentation

see Sedimentation field-flow fractionation

Field-flow fractionation, thermal

see Thermal field-flow fractionation

Field-flow fractionation, two-dimensional

Two-dimensional field-flow fractionation 504(1990)247

Field strength

Comparison of power and exponential field programming in field-flow fractionation 550(1991)787

Film thickness

Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

Fingerprinting

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Fish meals

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Fish oil

Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295

Fish products

Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection 508(1990)357

Flame infrared emission detector

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Flame ionization detector

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Flame photometric detection

Determination of dimethyl sulphate in air by gas chromatography with flame photometric detection 541(1991)459

Flavour analysis

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

Flocculating solvent

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Flow cell

Evaluation of refractive index artifacts in liquid chromatographic absorbance detection. Extension to non-ideal injection and gradient elution 503(1990)127

Coupling of microcolumn high-performance liquid chromatography with Fourier transform infrared spectrometry 506(1990)443

Z-Shaped flow cell for UV detection in capillary electrophoresis 543(1991)439

Two-dimensional viscous flow analysis in a micro flow-cell of an ultraviolet absorption detector for high-performance liquid chromatography 549(1991)101

Flow dialysis

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Flow injection analysis

Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103

Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213

Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33

Post-column reaction detection and flow injection analysis 535(1990)41

Flow profiles

Electrochromatography with continuous sample introduction 515(1990)645

Flow-rate

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Flow scintillation detection

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Flow-through particles

Flow-through particles for the high-performance liquid chromatographic separation of

biomolecules: perfusion chromatography
519(1990)1

Fluid density

Retention studies in supercritical fluid
chromatography 505(1990)161

Sorption isotherms in supercritical fluid
chromatography (Review) 550(1991)775

Fluid modifiers

Sorption isotherms in supercritical fluid
chromatography (Review) 550(1991)775

Fluorescence binding assay

Non-radioactive detection of MHC class II-
peptide antigen complexes in the sub-picomole
range by high-performance size-exclusion
chromatography with fluorescence detection
548(1991)343

Fluorescence detector

High-performance liquid chromatographic
determination of humic acid in sodium aluminate
solution 502(1990)443

Studies on the uptake of N-methylisoquinolinium
ion into rat striatal slices using high-performance
liquid chromatography with fluorimetric
detection 503(1990)189

Precolumn derivatization technique for high-
performance liquid chromatographic
determination of penicillins with fluorescence
detection 504(1990)359

Indirect fluorometric detection in open-tubular
capillary column chromatography 506(1990)401

Determination of amoxicillin in plasma by high-
performance liquid chromatography with
fluorescence detection after on-line oxidation
506(1990)417

Fully automated amino acid analysis for protein
and peptide hydrolysates by precolumn
derivatization with 9-fluorenyl
methylchloroformate and 1-aminoadamantane
507(1990)67

Determination of the monoamine oxidase B
inhibitor Ro 19-6327 in plasma by high-
performance liquid chromatography using
precolumn derivatization with fluorecamine and
fluorescence detection 507(1990)187

High-performance liquid chromatographic
determination of aliphatic thiols with acryloyl
acrylate

acids as fluorogenic precolumn derivatization
reagents 507(1990)451

Preparation of ethylenediaminephosphoramidates
of nucleotides and derivatization with fluorescein
isothiocyanate 512(1990)409

Direct injection of blood samples into a high-
performance liquid chromatographic adenine
analyser to measure adenine, adenosine and the
adenine nucleotides with fluorescence detection
515(1990)363

Determination of free catecholamines in human
urine by direct injection of urine into a liquid
chromatographic column-switching system with
fluorimetric detection 515(1990)435

Determination of pseudouridine in human urine
and serum by high-performance liquid
chromatography with post-column fluorescence
derivatization 515(1990)495

o-Phthalaldehyde post-column derivatization for
the determination of gizzerosine in fish meal by
high-performance liquid chromatography
515(1990)527

Determination of α -tocopherol, free cholesterol,
esterified cholesterols and triacylglycerols in
human lipoproteins by high-performance liquid
chromatography 515(1990)585

Determination of urinary free noradrenaline by
reversed-phase high-performance liquid
chromatography with on-line extraction and
fluorescence derivatization 515(1990)621

Indirect fluorescence detection of sugars separated
by capillary zone electrophoresis with visible laser
excitation 515(1990)639

Capillary electrophoresis of urinary porphyrins
with absorbance and fluorescence detection
516(1990)271

High-performance liquid chromatographic
determination of proteins by post-column
fluorescence derivatization with thiamine reagent
518(1990)141

Sensitive analysis of phospholipid molecular
species by high-performance liquid
chromatography using fluorescent naproxen
derivatives of diacylglycerols 518(1990)157

Solid-phase extraction and fluorimetric detection
of benzophenanthridine alkaloids from
Sanguinaria canadensis cell cultures 519(1990)99

Fluorescence detection of the enantiomers of halofantrine at picomole levels using chiral high-performance liquid chromatography 519(1990)387

Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141

Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Detection in ion chromatography (Review) 546(1991)175

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Fluorescence visualization

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Fluorescent probes

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Fluorinated stationary phases

Preparation and comparison of a pentafluorophenyl stationary phase for reversed-phase liquid chromatography 511(1990)79

Fluorocarbon bonded phases

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Fluorodensitometry

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Fluorogenic labelling

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Assay of methylthiolinosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Application of high-performance thin-layer chromatography-fluorescence densitometry to the simultaneous determination of reduced and oxidized glutathione 502(1990)230

Fluoropolymers

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Fly ash

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Foam counter-current chromatography

Foam counter-current chromatography of bacitracin. II. Continuous removal and concentration of hydrophobic components with nitrogen gas and distilled water free of surfactants or other additives 538(1991)213

Fossil fuels

Environmental applications of ion chromatography (Review) 504(1990)211

Tandem mass spectrometry —an additional dimension of chromatography for the

determination of biomarkers in fossil fuels
(Review) 550(1991)193

Free energy

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Free energy of sorption

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Freundlich isotherms

Sorption isotherms of organic vapours on Tenax 514(1990)279

Frontal chromatography

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Optimisation of frontal chromatography by partial loading 545(1991)27

Function of mutual information

Information theory of column chromatography on the basis of the information measure FUMI 513(1990)349

Fungi

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Fused rocket immunoelectrophoresis

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Fuzzy theory

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

G

Ganoderma lucidum

Liquid chromatographic characterization of the triterpenoid patterns in *Ganoderma lucidum* and related species 542(1991)327

Gas impurities

Enrichment and mass spectrometric analysis of trace impurity concentrations in gases 502(1990)265

Gas-liquid partition chromatography

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Gas-solid systems

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas-solid system 520(1990)105

Gaussian peaks

Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51

Gel permeation chromatography, coupling to capillary electrophoresis

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Glass beads

Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279

Glycosylation

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Gradient, multidevelopment

Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214

Gradient chromatography

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Gradient delay time

Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179

Gradient elution

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

Ion-exchange high-performance liquid chromatographic isolation of the major allergen of parietaria pollen extract 512(1990)115

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Modification of a horizontal sandwich chamber for thin-layer chromatography 516(1990)461

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99

- Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123
- Stepwise gradient in thin-layer chromatography of *Chelidonium* alkaloids 518(1990)273
- Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81
- Hydrophobic interaction chromatography of proteins on Separon HEMA. III. Selection of suitable gradient conditions for the separation of proteins by hydrophobic interaction chromatography 523(1990)139
- Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93
- Large-scale purification of haptented oligonucleotides using high-performance liquid chromatography 536(1991)85
- Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131
- Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxytrialanine methyl ester)phosphazenes] 536(1991)255
- Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289
- Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181
- Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201
- Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91
- Preparative high-performance liquid chromatography based on reversed-phase gradient elution. Optimum experimental conditions for heavily overloaded separation 540(1991)21
- Compensated delay volume as an approach to improve the inter-laboratory transferability of gradient high-performance liquid chromatographic assays 540(1991)373
- Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157
- Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125
- Temperature programming in macrocycle-based ion chromatography 546(1991)139
- Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151
- Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5
- Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77
- Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425
- Separation and detection of oxidation products in Neurolite raw material 550(1991)549
- Gradient optimization modelling**
High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Gradient profile

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Gradient steepness

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Grafted polymer layers

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Grape musts

Analysis of the soluble proteins in grape must by two-dimensional electrophoresis 541(1991)453

Graphitized carbon black

Capillary gas chromatography with graphitized carbon black 517(1990)123

Carbon adsorbents in gas adsorption chromatography 520(1990)55

Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69

Evaluation tests and applications of a double-layer tube-type passive sampler 522(1990)285

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Group retention coefficients

High-performance liquid chromatography of amino acids, peptides and proteins. CX. Principal component analysis of four sets of group retention coefficients derived from reversed-phase high-performance liquid chromatography of peptides 548(1991)105

Group separations

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Cascade-mode multiaffinity chromatography. Fractionation of human serum proteins 550(1991)751

H**Hadamard transform spatial multiplexing**

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Halogen lamp

Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213

Hamaker constant

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Hammett constants

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Hapten binding sites

Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363

Headspace analysis

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Headspace analysis of polar compounds in air 509(1990)107

Simple device for the determination of volatile chlorinated hydrocarbons in water by gas chromatography 509(1990)111

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Sorption isotherms of organic vapours on Tenax 514(1990)279

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Headspace gas chromatography with open-tubular columns for determining the evaporation rate of essential oils, perfumery compositions and perfumes 520(1990)169

Rapid quantitative analysis of headspace components of green olive brine 521(1990)153

Detection of non-volatile organic acids by headspace gas chromatography 532(1990)374

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

Heating rate

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Heat of adsorption

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Sorption isotherms of organic vapours on Tenax 514(1990)279

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69

Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23

HEMA 1000 Q-L

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Henry's law

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Heterometallic clusters

High-performance liquid chromatographic separation of heterometallic 1,1'-bis-(diphenylphosphino)ferrocene-substituted metal carbonyls 538(1991)492

Heterophasic systems

Reversed-phase high-performance liquid chromatography applied to the direct analysis of untreated heterophasic systems 507(1990)403

Hierarchical ascending classification

Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393

Hofmeister series

Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41

Hollow-fibre membrane

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Hollow fibres

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Homarus americanus

Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

Homogeneous catalysis

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Homologous series

Even-odd alternation effect in the regularities of chromatographic retention 509(1990)15

Gas chromatographic identification of complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305

Homologues

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Horizontal flow-through coil planet centrifuge

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

Horizontal sandwich chamber, TLC

Modification of a horizontal sandwich chamber for thin-layer chromatography 516(1990)461

Human immunodeficiency virus

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Purification of a recombinantly produced transmembrane protein (gp41) of HIV 1 521(1990)267

Application of capillary DNA chromatography to detect AIDS virus (HIV-1) DNA in blood 533(1990)87

Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282

Hydration

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})-\text{H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

Hydrazido-derivatized supports

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Hydrazinolysis

Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Hydrodistillation

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Hydrodynamic chromatography

Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Hydrodynamic force

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Hydrodynamic mechanism, stationary phase transition

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). II. Speculation on the hydrodynamic mechanism in stationary phase retention 538(1991)67

Hydrogen bond acidity

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Hydrogen bond donor acidity

Solvatochromic hydrogen bond donor acidity of aqueous binary solvent mixtures for reversed-phase liquid chromatography 513(1990)107

Hydrogen bonding

Solvatochromic hydrogen bond donor acidity of aqueous binary solvent mixtures for reversed-phase liquid chromatography 513(1990)107

Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329

Hydrogen-deuterium exchange

Hydrogen-deuterium exchange in fused-silica capillary columns 549(1991)416

Hydrogen storage alloys

Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C_1 , C_2 and C_3 hydrocarbons 541(1991)75

Hydrophilic-interaction chromatography

Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13

Hydrophilicity

Glucose-silica, an improved medium for high-pressure gel filtration chromatography 511(1990)69

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13

Hydrophilic resin-based packings

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Hydrophobic contact area

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Hydrophobic effects

Properties of supports for the partition chromatography of proteins 542(1991)55

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

Hydrophobic gels

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Hydrophobic interaction chromatography

Study of the retention mechanism of proteins in hydrophobic interaction chromatography 507(1990)1

Salt-promoted adsorption chromatography 510(1990)47

Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99

Hydrophobic interaction chromatography of proteins on Separon HEMA. II. Influence of sorbent modification on efficiency of separation 523(1990)131

Hydrophobic interactions

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

Hydrophobicity

see also Lipophilicity

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

Reversed-phase high-performance liquid chromatography in the investigation of the hydrophobicity of selected ketones 506(1990)109

- Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119
- Isocratic hydrophobic interaction chromatography of dansyl amino acids. Correlation of hydrophobicity and retention parameters 511(1990)123
- Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 511(1990)147
- Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111
- Hydrophobicity parameters determined by reversed-phase liquid chromatography. I. Relationship between capacity factors and octanol-water partition coefficients for monosubstituted pyrazines and the related pyridines 514(1990)123
- Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67
- Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 515(1990)73
- Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189
- Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271
- Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1
- High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19
- Purification of the subunits of pea mitochondrial F_1 -ATPase by high-performance liquid chromatography 521(1990)43
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- High-performance liquid chromatography of red fruit anthocyanins 537(1991)101
- Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83
- Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29
- Structure-retention correlation in liquid chromatography (Review) 550(1991)313
- Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325
- Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573
- Hydrophobicity scale**
Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41
- Hydrophobic layers**
High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215
- Hydroxyapatite**
High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319
- High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads 506(1990)319
- Hydroxyapatite as a liquid chromatographic packing (Review) 544(1991)147

I**Ideal chromatographic reactor**

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Imaging densitometry

Determination of phospholipids on two-dimensional thin-layer chromatographic plates by imaging densitometry 543(1991)201

Immobiline buffers

Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381

Immobiline membranes

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133

Immobilization

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Site-directed immobilization of proteins 510(1990)293

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

High-performance liquid chromatography for the assessment of glucoamylase, immobilized on metallic membranes 536(1991)107

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41

Immobilized antibodies

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Immobilized enzyme reactors

Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450

Immobilized enzymes

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Immobilized ligands

Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41

New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Immobilized metal affinity chromatography

Salt-promoted adsorption chromatography 510(1990)47

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237

Immobilized Fe³⁺ affinity chromatographic isolation of phosphopeptides 539(1991)425

Immobilized metal ions

Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by

interaction with immobilized copper(II) ions 536(1991)1

Model studies on iron(III) ion affinity chromatography. Interaction of immobilized metal ions with nucleotides 541(1991)333

Metal affinity displacement chromatography of proteins 549(1991)89

Cascade-mode multiaffinity chromatography. Fractionation of human serum proteins 550(1991)751

Immobilized pH gradients

Recent developments in electrophoretic methods (Review) 516(1990)3

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133

Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381

Immobilized polymer layers

Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

Immunoaffinity adsorbents

Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B₁ in raw ground unskinned peanuts 511(1990)379

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323

Purification of NAD glycohydrolase from *Neurospora crassa* conidia by a polyclonal immunoabsorbent 539(1991)517

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Immunoaffinity extraction

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography–negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime–trimethylsilyl derivatives 547(1991)325

Immunoaffinity ligands

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Immunoaffinity purification

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Immunodyne

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

Immuno-electrophoresis

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

Immunosensors

Biosensors (Review) 510(1990)347

Immunosorbent

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Inclusion complexes

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas–liquid chromatography 547(1991)283

Inclusion complex formation

Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255

Indirect detection

Secondary equilibria and their interaction with chromatographic transport 506(1990)45

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Anion–cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431

Inductive adsorption

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

Inductively coupled plasmas

Preparation of uranium by reversed-phase partition chromatography. Application to the determination of trace elements in nuclear-grade uranium compounds by inductively coupled plasma atomic emission spectrometry 537(1991)287

Industrial hygiene sampling

Application of multidimensional gas chromatography–mass spectrometry to the determination of glycol ethers in air 522(1990)303

Information theory

Information theory of column chromatography on the basis of the information measure FUMI 513(1990)349

Infrared spectrometry, Fourier-transform

Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19

Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography–Fourier-transform infrared microspectrometry 505(1990)179

Coupling of microcolumn high-performance liquid chromatography with Fourier transform infrared spectrometry 506(1990)443

Gel permeation chromatography–Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Study of large sample volume injection in a capillary gas chromatographic–Fourier transform infrared system using a retention gap column 547(1991)494

Evaluation of gas chromatography–Fourier transform infrared spectroscopy–mass spectrometry for analysis of phenolic compounds 549(1991)297

Injection methods

Separation and determination of aspicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Sample introduction and elution method for preparative supercritical fluid chromatography 515(1990)285

Electrochromatography with continuous sample introduction 515(1990)645

Injection profile

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Injection techniques

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253

Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 515(1990)73

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Preparative high-performance liquid chromatographic columns with an intra-column injection system 520(1990)295

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Injection volume

Study of large sample volume injection in a capillary gas chromatographic–Fourier transform infrared system using a retention gap column 547(1991)494

Inlet channel, pinched

Evaluation of pinched inlet channel for stopless flow injection in steric field-flow fractionation 517(1990)423

Integral Doppler anemometry

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Interfaces

Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461

Interfaces, GC–MS

Simple, direct gas chromatography–mass spectrometry interface for the ion trap detector 504(1990)429

Interfaces, LC–atomic absorption spectrometry

Ultrasonic nebulizer interface system for coupling liquid chromatography and electrothermal atomic absorption spectrometry 541(1991)243

Interfaces, LC–MS

Important parameters in liquid chromatography–continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Identification of trichothecenes by frit-fast atom bombardment liquid chromatography–high-resolution mass spectrometry 538(1991)323

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid

chromatography-particle beam-mass spectrometry 549(1991)237

Internal standards

Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Computer assisted internal standard selection for reversed-phase liquid chromatography 535(1990)199

Internal-surface reversed-phase packings

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 515(1990)73

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Intersecting isotherms

Effect of the intersection of the individual isotherms in displacement chromatography 541(1991)195

Inverse gas chromatography

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Ion chromatography

Environmental applications of ion chromatography (Review) 504(1990)211

Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223

Comparative analysis of organic acids located on the surface of natural building stones by high-

performance liquid, gas and ion chromatography 514(1990)241

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Twenty years of ion chromatography (Review) 546(1991)3

Detection in ion chromatography (Review) 546(1991)175

Environmental applications of ion chromatography in China 546(1991)317

Use of ion chromatography in agricultural research (Review) 546(1991)387

Ion exchange, high pH

High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227

Ion-exchange model

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

Ion exchangers

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

Increasing the purity of polyuronic sorbents 509(1990)239

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

New ion exchangers for the chromatography of biopolymers 510(1990)133

High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101

Ion-exchange high-performance liquid chromatographic isolation of the major allergen of *parietaria* pollen extract 512(1990)115

High-performance ion-exchange chromatography of peptides on a pellicular ion exchanger 513(1990)384

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Rapid purification of cytochrome *c* oxidase from *Paracoccus denitrificans* 521(1990)291

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*.
I. Chromatographic methods 523(1990)53

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Twenty years of ion chromatography (Review) 546(1991)3

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Azide determination in protein samples by ion chromatography 546(1991)325

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Ion exclusion

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

Ion-exclusion chromatography

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Ionic charge

Determination of the charge of ions by partition coefficient measurements in gel permeation chromatography 504(1990)403

Ionic multilayers

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

Ionic strength

Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483

Ionic strength gradient

Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13

Ion interaction

Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199

Ion-interaction reagents

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of

hair dyes and other water-soluble dyes
518(1990)149

Ion mobility

Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins
516(1990)219

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis
516(1990)473

Ion mobility detection

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation
505(1990)215

Ion-pair chromatography

Extension of the electrostatic retention model of reversed-phase ion-pair chromatography to include the simultaneous effects of the organic modifier and the pairing ion
506(1990)85

Contributions to the calculation of retention data in ion-pair chromatography
508(1990)309

Chiral sulphonated phosphines. IV. High-performance liquid chromatographic separation of sulphonated phosphines
514(1990)91

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction
546(1991)251

Ion-pair extraction

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems
507(1990)351

Ion-pair formation

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography
515(1990)667

Ion-pairing

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis
520(1990)367

Ion-pairing agents

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems
520(1990)403

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration
535(1990)181

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate
537(1991)249

Separation of inorganic analyte anions on dye-coated stationary phases
546(1991)199

Ion trap detector

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector
504(1990)429

Isocratic conditions

Gradient elution methods for predicting isocratic conditions (Review)
550(1991)425

Isocratic networks

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots
505(1990)99

Isoelectric focusing

Isoelectric focusing studies of concanavalin A and the lentil lectin
502(1990)131

Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor
511(1990)333

Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing
512(1990)157

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography
539(1991)177

Determination of *pI* by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms
545(1991)403

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography
548(1991)229

Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis
548(1991)381

Isoelectric focusing field-flow fractionation

Isoelectric focusing field-flow fractionation. Experimental study of the generation of pH gradient 539(1991)111

Isoelectric focusing field-flow fractionation. II. Experimental study of focusing of methyl red in the trapezoidal cross-section channel 545(1991)349

Isoelectric point

Determination of *pI* by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms 545(1991)403

Isoforms

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133

Isomers, positional

Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89

Isotachopheresis

see also Capillary isotachopheresis

Isotachopheretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421

Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. I. Isotachopheresis with two leading ions 508(1990)3

Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. II. Migration behaviour in capillary zone electrophoresis 508(1990)19

Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

High-performance capillary electrophoresis of hydrophobic membrane proteins 516(1990)89

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Capillary tube isotachopheretic separation of niacin derivatives 521(1990)158

Use of crown ethers in the isotachopheretic determination of metal ions 523(1990)281

Isotachopheresis with electroosmotic flow: open *versus* closed systems 537(1991)429

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Study of isotachopheretic separation behaviour of metal cations by means of particle-induced X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Capillary tube isotachopheretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475

Computer-aided simulation of electromigration 545(1991)225

Optimization of isotachopheretic analysis: use of the charge-based transient-state model 545(1991)249

Effect of sample composition on the separation efficiency of isotachopheresis 545(1991)267

Isotachopheresis in open systems. Problems in quantitative analysis 545(1991)283

Isotachopheresis in open-tubular fused-silica capillaries with on-column multi-wavelength detection 545(1991)299

Determination of halofuginone in feedstuffs by the combination of capillary isotachopheresis and capillary zone electrophoresis in a column-switching system 545(1991)307

Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315

Data acquisition and digital filtering in analytical isotachopheresis 545(1991)337

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Capillary isotachopheretic determination of cysteinyl leukotrienes 545(1991)375

Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391

Isotachopheretic determination of 2-5A phosphodiesterase 545(1991)407

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Determination of disodium 3-amino-1-hydroxypropylidene-1,1-bisphosphonate pentahydrate 545(1991)421

Determination of permethrin and tetramethrin by isotachopheretic analysis of hydrolytic products 545(1991)427

Characterization of humic substances by capillary isotachopheresis 545(1991)461

Anomalous behaviour of sodium in isotachopheresis 545(1991)471

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

Isotope effect

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Isotope fractionation

Fractionation of potassium isotopes in cation-exchange chromatography 538(1991)355

K

Kinetic models

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Kjeldahl digestion

Determination of total nitrogen in food, environmental and other samples by ion chromatography after Kjeldahl digestion 546(1991)405

Knox plot

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Krypton lamps

Effect of temperature on the sensitivity of the photoionization detector 540(1991)441

L

Labelling, isotopic

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Langmuir-Blodgett films

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307

Langmuir-Freundlich isotherm

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Langmuir isotherms

see Adsorption isotherms

Laser-based polarimetry

Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Laser densitometry

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Laser-induced fluorescence

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Laser-light scattering detector

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Latex-coated resins

Low-capacity latex-coated resins for anion chromatography 547(1991)11

Leading electrolyte

Use of crown ethers in the isotachopheretic determination of metal ions 523(1990)281

Leading ions

Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. I. Isotachopheresis with two leading ions 508(1990)3

Isotachopheresis with two leading ions and migration behaviour in capillary zone electrophoresis. II. Migration behaviour in capillary zone electrophoresis 508(1990)19

Lentinus edodes

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Leukocytes

Purification of immunomodulatory factors in human peripheral blood leukocytes 512(1990)139

Levan-Vermeulen isotherm

Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1

Lewis acid sites

Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43

Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59

Libinia emarginata

Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

Licorice

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Ligand density

Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Ligand exchange

High-performance liquid chromatographic assay of thiomersal (thimerosal) as the ethylmercury dithiocarbamate complex 542(1991)137

Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221

Separation and estimation of small amounts of the enantiomers of carbidopa and methyl dopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59

Ligand-exchange chromatography

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Ligand-exchange reactions

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Ligand-exchange thin-layer chromatography

Resolution of the neuroexcitatory N-methylaspartic acid (2-methylaminosuccinic acid) enantiomers by ligand-exchange thin-layer chromatography 502(1990)226

Ligands, competitor

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

Ligands, mildly hydrophobic

Polymer ligands for mild hydrophobic interaction chromatography—principles, achievements and future trends (Review) 539(1991)297

Light-scattering detector

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Limiting ionic equivalent conductance

Measurement of limiting ionic equivalent conductance by single-column ion chromatography 535(1990)207

Linear retention models

Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37

Linear solvation energy relationships

Empirical scheme for the classification of gas chromatographic stationary phases based on solvatochromic linear solvation energy relationships 517(1990)103

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Lipid-vesicle-surface chromatography

Lipid-vesicle-surface chromatography 506(1990)379

Binding of lysozyme on the surface of entrapped phosphatidylserine–phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Lipophilicity

see also Hydrophobicity

Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45

Reversed-phase thin-layer and gas chromatographic retention behaviour of triphenylmethane derivatives 520(1990)217

Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249

Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221

Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkancarboxylic acids by thin-layer chromatography 543(1991)195

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523

Liposome chromatography

Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283

Liposomes

Lipid-vesicle-surface chromatography 506(1990)379

Liquid adsorption mechanism

Mechanism of liquid adsorption chromatography in thin-layer chromatography with ternary mobile phases 550(1991)645

Liquid chromatography, comparison with SFC and CZE

Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis 507(1990)125

Liquid chromatography, history

Key moments in the evolution of liquid chromatography 535(1990)3

Liquid chromatography-mass spectrometry

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Liquid chromatography-thermospray mass spectrometric study of N-acetylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151

Identification of trichothecenes by frit-fast atom bombardment liquid chromatography-high-resolution mass spectrometry 538(1991)323

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Liquid chromatography-mass spectrometry system using column-switching techniques 541(1991)231

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Determination of chlorophenoxy acids using high-performance liquid chromatography-particle beam mass spectrometry 542(1991)385

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Liquid crystals

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C_8 and C_9 hydrocarbons 509(1990)93

High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C_{17} - C_{18} *n*-alkenes 520(1990)75

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Liquid crystals for the gas chromatographic determination of the stereochemistry of insect sex pheromones 537(1991)482

Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335

Application of substituted liquid crystals as stationary phases in gas-liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423

Liquid extraction, multiphase

Forced-flow multi-phase liquid extraction, a separation method based on relative and absolute

counter-current distribution. I. Description of the method and basic possibilities 523(1990)43

Liquid film properties

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Liquid-liquid extraction, continuous

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Liquid-liquid partition chromatography

Investigations of liquid-liquid partition chromatography of proteins 548(1991)3

Liquid phase cooperative binding interactions

Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245

Liquid scintillation counting

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Liquid scintillation spectrometry

Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361

Loading capacity

Sample introduction and elution method for preparative supercritical fluid chromatography 515(1990)285

Loading factor

Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57

Load-response curves

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Low-angle laser light scattering detector

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with

low-angle laser light scattering detection 502(1990)21

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25

Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91

M

Macrocyclic ligands

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Macromolecular crowding effect

High-performance vacancy gel permeation chromatography 518(1990)238

Macroporous copolymers, rigid

Rigid macroporous copolymers as stationary phases in high-performance liquid chromatography (Review) 544(1991)201

Magnetic resonance imaging

Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263

Make-up gas flow

Study of large sample volume injection in a capillary gas chromatographic-Fourier transform infrared system using a retention gap column 547(1991)494

Margarine

Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection 543(1991)69

Marine copepods

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Marine food chain

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Mass area

Calcul de la composition, avec une constante de proportionnalité, de mélanges à partir du chromatogramme obtenu par détection partagée entre deux détecteurs 519(1990)159

Mass loadability

Theoretical optimization of open-tubular columns for liquid chromatography with respect to mass loadability 506(1990)185

Mass spectra

Use of 1-*[p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Mass spectral library

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

Mass spectrometric tracer pulse chromatography

Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139

Mass spectrometry

Use of M-series retention index standards in the identification of trichothecenes by electron impact mass spectrometry 513(1990)31

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Identification of vitamin D₂ by thermospray-interface mass spectrometry 543(1991)241

Mass spectrometry, fast atom bombardment

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Mass spectrometry, negative ion chemical ionization

Determination of clenbuterol in bovine plasma and tissues by gas chromatography-negative-ion chemical ionization mass spectrometry 518(1990)41

Mass spectrometry, time of flight

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

High-performance liquid chromatography-time-of-flight mass spectrometry and its application to peptide analyses 536(1991)143

Mass spectrometry interfaces

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Mass transfer

Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495

Nature of the eddy dispersion in packed beds 535(1990)189

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Mass transfer resistance

High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101

Mathematical modelling

Optimization of isotachopheric analysis: use of the charge-based transient-state model 545(1991)249

Matrix effects

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Matrix interference

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

McReynolds data

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

McReynolds phases

Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329

Meat

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Membrane dialysis

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Membranes

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245

High-performance capillary electrophoresis of hydrophobic membrane proteins 516(1990)89

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315

Membranes, ciliary

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Membrane support

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Membrane vesicles

Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199

Metal affinity protein partitioning

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Metal binding sites

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

Metal chelates

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

Metal ions

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Methanogenic bacteria

Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421

Methanolysis

Identification of monosaccharides by high-performance liquid chromatography using

methanolysis and a light-scattering detector
514(1990)70

Method development

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Validation of an expert system for the selection of initial high-performance liquid chromatographic conditions for the analysis of basic drugs 506(1990)211

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Methods validation

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Methyl silicone

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Micellar chromatography

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Micellar electrokinetic chromatography

see also Capillary electrophoresis

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241

Retention of eleven priority phenols using micellar electrokinetic chromatography 516(1990)263

Capillary electrophoresis of urinary porphyrins with absorbance and fluorescence detection 516(1990)271

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506

Separation of phthalates by micellar electrokinetic chromatography 542(1991)473

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445

Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Micellar exclusion

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Micellar liquid chromatography

Solute retention in micellar liquid chromatography 542(1991)29

Micellar mobile phases

Application of micellar mobile phases for the assay of drugs in biological fluids 531(1990)79

Micellar phases

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Micelles

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Micelle-solute interactions

Solute retention in micellar liquid chromatography 542(1991)29

Microdialysis sampling

In vivo microdialysis sampling coupled to liquid chromatography for the study of acetaminophen metabolism 506(1990)461

Microelectrodes

Electrochemical detection system for supercritical fluid chromatography 519(1990)256

Microfiltration membranes

Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315

Microheterogeneity

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Microporous solids

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Micropurification

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Microscopy

Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319

Microsequencing methods

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303

Microtransfer techniques

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Microwave extraction

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

Microwave-induced atmospheric pressure helium plasma emission spectroscopy

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Microwave-induced plasma

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Mid-point pressure

Prediction of retention times in temperature-programmed multichromatography 540(1991)311

Migration model

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Migration rates

Influence of buffer concentration, capillary internal diameter and forced convection on resolution in capillary zone electrophoresis 516(1990)223

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Mineral oils

Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383

Mitochondria

Purification of the subunits of pea mitochondrial F₁-ATPase by high-performance liquid chromatography 521(1990)43

Mixed ion exchangers

Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Mobile phase additives

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Mobile phase composition

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile

phase, detection and direct evaluation 502(1990)385

High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Extension of the electrostatic retention model of reversed-phase ion-pair chromatography to include the simultaneous effects of the organic modifier and the pairing ion 506(1990)85

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Chiral separations of atropine and homatropine on an α_1 -acid glycoprotein-bonded stationary phase 506(1990)579

Separation and determination of molecular species of phosphatidylcholine in biological samples by high-performance liquid chromatography 507(1990)339

Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

- Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245
- Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357
- Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17
- Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273
- Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415
- Solvatochromic hydrogen bond donor acidity of aqueous binary solvent mixtures for reversed-phase liquid chromatography 513(1990)107
- Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117
- Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219
- Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45
- Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97
- Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137
- Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309
- Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27
- Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49
- Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279
- High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521
- High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563
- Retention of benzo[a]pyrene on cyclodextrin-bonded phases 516(1990)355
- Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383
- Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99
- Effect of ²H₂O on the resolution of the optical isomers of ibuprofen on an α₁-acid glycoprotein column 518(1990)277
- Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171
- Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69
- Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315
- Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403
- Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53
- Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Application of micellar mobile phases for the assay of drugs in biological fluids 531(1990)79

Comparison between ethanol and methanol for the reversed-phase high-performance liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379

Analysis of amine metabolites by high-performance liquid chromatography on silica gel with a non-aqueous ionic eluent 532(1990)405

High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165

Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid-hydrogen peroxide media 539(1991)169

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221

High-performance liquid chromatographic determination of L-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyldopa) in human urine and plasma 541(1991)285

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101

Optimized isocratic separation of major carboxylic acids in wine 542(1991)277

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase

- high-performance liquid chromatography 542(1991)351
- Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105
- Reversed-phase high-performance liquid chromatographic separation of tertiary and quaternary alkaloids from *Chelidonium majus* L. 543(1991)123
- Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157
- Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59
- Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79
- Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101
- Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115
- Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161
- Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101
- Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199
- Low-capacity latex-coated resins for anion chromatography 547(1991)11
- Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59
- Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113
- Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377
- Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59
- Metal affinity displacement chromatography of proteins 549(1991)89
- Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159
- Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195
- The effect of $^2\text{H}_2\text{O}$ and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404
- Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach 550(1991)87
- Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425
- Chromatographic characterization of some dideoxyribonucleosides 550(1991)507
- Mechanism of liquid adsorption chromatography in thin-layer chromatography with ternary mobile phases 550(1991)645
- Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705
- Mobile phase density**
Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3
- Mobile phase fluid**
Enthalpy of transfer in supercritical fluid chromatography 543(1991)262
- Mobile phase selectivity**
Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Mobility, electrophoretic

Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521

High-pressure and supercritical capillary electrophoresis 517(1990)573

Determination of absolute mobilities, pK values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407

Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385

Modifiers

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Molar absorptivity

Responses of different UV-visible detectors in high-performance liquid chromatographic measurements when the absolute number of moles of an analyte is measured 518(1990)135

Molar enthalpy

Enthalpy of transfer in supercritical fluid chromatography 543(1991)262

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Molar refraction

Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69

Molecular connectivity indices

Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367

Molecular imprinting

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by

molecular imprinting of amino acid amides 513(1990)167

Molecular imprints

Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313

Molecular interactions

Molecular interactions in liquid chromatography 537(1991)33

Mechanism of liquid adsorption chromatography in thin-layer chromatography with ternary mobile phases 550(1991)645

Molecular mass

Improved method for prediction of gas chromatographic retention indices of C₉-C₁₂ alkylbenzenes 549(1991)325

Molecular mass determination

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91

Molecular mass distribution

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Liquid chromatographic analysis of cationic polymerized phenyl glycidyl ether 547(1991)195

Molecular recognition

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by

molecular imprinting of amino acid amides
513(1990)167

Enantiomeric resolution on molecularly imprinted
polymers prepared with only non-covalent and
non-ionic interactions 516(1990)313

Enantiomeric resolution of amino acid derivatives
on molecularly imprinted polymers as monitored
by potentiometric measurements 516(1990)323

Silicas chemically bonded with multidentate
phenyl groups as stationary phases in reversed-
phase liquid chromatography used for non-
planarity recognition of polycyclic aromatic
hydrocarbons 517(1990)193

Molecular sieves

Glucose-silica, an improved medium for high-
pressure gel filtration chromatography
511(1990)69

Molecular size distribution

Determination of molecular size distributions of
humic acids by high-performance size-exclusion
chromatography 541(1991)419

Molecular structure-solubility relationship

Quantitative correlations between solute
molecular structure and solubility in supercritical
fluids 517(1990)449

Molten salts

Separation of cations in buffered 1-methyl-3-
ethylimidazolium chloride-aluminum chloride
ionic liquids by ion chromatography
547(1991)484

Moment analysis

Theory of temperature-programmed gas
chromatography. The method of moment
analysis 521(1990)71

Monoclonal antibodies

Isolation of isoproteins from monoclonal
antibodies and recombinant proteins by
chromatofocusing 512(1990)157

Montmorillonite

Gas chromatographic properties of
organoammonium exchanged montmorillonites. I.
Tetraalkylammonium cations 549(1991)273

Gas chromatographic retention properties of
organoammonium exchanged montmorillonites.
II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$
and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$
549(1991)283

Multi-channel data processing

Computer spectrochromatography. Principles and
practice of multi-channel chromatographic data
processing 542(1991)247

Multicomponent adsorption

Dependence of retention on the organic modifier
concentration and multicomponent adsorption
behavior in reversed-phase chromatography
550(1991)411

Multicomponent isotherms

Dependence of retention on the organic modifier
concentration and multicomponent adsorption
behavior in reversed-phase chromatography
550(1991)411

Multidimensional chromatography

Coupled column chromatography in chiral
separations. I. Enantiomeric separation on
swollen microcrystalline cellulose triacetate
columns after a pre-separation on a non-chiral
alkylsilica column 513(1990)195

Packed column gas chromatography-capillary
column gas chromatography-mass spectrometry
coupling for the qualitative characterization of
technical products 520(1990)175

Application of multidimensional gas
chromatography-mass spectrometry to the
determination of glycol ethers in air
522(1990)303

Large-scale purification of the synthetic peptide
fragment 163-171 of human interleukin- β by
multi-dimensional displacement chromatography
549(1991)175

Multiparameter mapping

High-performance liquid chromatographic
computer simulation based on a restricted multi-
parameter approach. I. Theory and verification
535(1990)55

High-performance liquid chromatographic
computer simulation based on a restricted multi-
parameter approach. II. Applications
535(1990)75

Multiple absorbance ratio correlation

Multiple absorbance ratio correlation — a new
approach for assessing peak purity in liquid
chromatography 506(1990)289

Multiple-criteria optimization

Multiple-criteria optimization 550(1991)15

Multiple development

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Multiplex gas chromatography

Continuous monitoring of a changing sample by multiplex gas chromatography 518(1990)199

Multivariate analysis

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography 550(1991)397

Multiwavelength detector

Isotachopheresis in open-tubular fused-silica capillaries with on-column multi-wavelength detection 545(1991)299

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Mycobacterium avium

Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209

Mycobacterium intracellulare

Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209

Mycobacterium scrofulaceum

Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209

N**Nafion-coated electrodes**

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

1-(1-Naphthyl)ethylcarbamate-derivatized β -cyclodextrin

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Natural building stones

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Natural products chemistry

Dual counter-current chromatography ---its applications in natural products research (Review) 538(1991)37

Applications of analytical high-speed counter-current chromatography in natural products chemistry (Review) 538(1991)45

Near-infrared absorption spectrometry

Confirmation and application of transmission near infrared absorption technique for absolute quantitation of functional groups on silica gel 503(1990)69

Neonatal screening

Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test 511(1990)131

Network plots

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Nitrile bonded phase

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Nitrogen BET isotherms

Tracer pulse chromatographic method for the determination of nitrogen BET isotherms and surface areas 518(1990)319

Non-exclusion effects

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Non-linear chromatography

Theoretical study of the effect of a difference in column saturation capacities for the two components of a binary mixture on their elution band profiles and separation in non-linear chromatography 511(1990)1

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Dependence of retention on the organic modifier concentration and multicomponent adsorption behavior in reversed-phase chromatography 550(1991)411

Non-linear effects

Effects of isotherm non-linearity on the determination of the binding constant in affinity chromatography 504(1990)55

Non-porous microparticulate silicas

Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

Non-porous particles

High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Non-uniform flow

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Nuclear fuel reprocessing

Simultaneous determination of tributyl phosphate and dibutyl phosphate in spent fuel reprocessing streams by gas chromatography 537(1991)489

Nuclear magnetic resonance spectroscopy

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

High-performance liquid chromatographic resolution of racemic 1,4-benzodiazepin-2-ones by means of a β -cyclodextrin silica bonded chiral stationary phase 506(1990)617

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Purification of cloned trypanosomal calmodulin and preliminary NMR studies 539(1991)501

Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53

Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345

Numerical resolution enhancement

Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51

O

Occupational exposure

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Octadecylalumina

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Octadecylsilica

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Oligopeptide affinity adsorbents

Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83

On-column detection

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Continuous sample collection in capillary zone electrophoresis by coupling the outlet of a capillary to a moving surface 516(1990)185

On-column matrix elimination

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

On-line analyzer

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Open capillaries, isotachopheresis

Isotachopheresis in open systems. Problems in quantitative analysis 545(1991)283

Open-tubular columns

see also Capillary columns

Theoretical optimization of open-tubular columns for liquid chromatography with respect to mass loadability 506(1990)185

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Design of liquid chromatography capillary columns 517(1990)297

Electrically driven open-tubular liquid chromatography 517(1990)557

Open-tubular fused-silica capillaries

Isotachopheresis in open-tubular fused-silica capillaries with on-column multi-wavelength detection 545(1991)299

Open-tubular liquid chromatography, electrically driven

Electrically driven open-tubular liquid chromatography 517(1990)557

Operating variables

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Optical purity

High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129

Optical rotation

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Optical rotation detection

Determination of enantiomeric purity of paclobutrazol and fluzafop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Optimization

Multivariate optimization of a gas-liquid chromatographic analysis of fatty acid methyl esters of blackcurrant seed oil 505(1990)385

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273

Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method 513(1990)13

- Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360
- Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99
- Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161
- Optimization study of octane-in-water emulsions by sedimentation field-flow fractionation 517(1990)333
- Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81
- Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57
- Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1
- Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21
- Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35
- Optimisation of frontal chromatography by partial loading 545(1991)27
- Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249
- Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37
- Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259
- Two-parameter mobile phase optimization for the chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113
- Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159
- Multiple-criteria optimization 550(1991)15
- Computer-aided optimization of high-performance liquid chromatographic analysis of flavonoids from some species of the genus *Althaea* 550(1991)71
- Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257
- Orange juice**
Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456
- Organic modifiers**
Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117
- Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315
- Quantitative extraction of linear alkylbenzenesulfonates using supercritical carbon dioxide and a simple device for adding modifiers 541(1991)185
- Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221
- Optimized isocratic separation of major carboxylic acids in wine 542(1991)277
- Separation of ^{125}I -labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid 543(1991)307
- Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59
- Dependence of retention on the organic modifier concentration and multicomponent adsorption
- simultaneous high-performance liquid

behavior in reversed-phase chromatography
550(1991)411

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Organic vapours

Sorption isotherms of organic vapours on Tenax 514(1990)279

Orthosiphon

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Overlapping resolution mapping

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Overload concentrations

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Overload conditions

Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301

Overloaded elution

Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1

Overloaded elution chromatography

Comparison of the performances of overloaded elution and displacement chromatography for a given column 540(1991)1

Overpressured thin-layer chromatography

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Ovomucoid column

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Oxygen enhancement

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

***Oxytropis ochrocephala* Bunge**

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

P

Packed columns

Packed columns in supercritical fluid chromatography (Review) 505(1990)3

Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563

Parietaria judaica

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

***Parietaria* pollen extract**

Ion-exchange high-performance liquid chromatographic isolation of the major allergen of *parietaria* pollen extract 512(1990)115

Partial least squares in latent variables

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Partial loading

Optimisation of frontal chromatography by partial loading 545(1991)27

Particle beam mass spectrometry

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Particle-induced X-ray emission

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced

X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Particle size

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Particle size distribution

Monosized stationary phases for chromatography 535(1990)147

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Partition chromatography

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Partition coefficients

Determination of the charge of ions by partition coefficient measurements in gel permeation chromatography 504(1990)403

Centrifugal counter-current chromatography, a promising means of measuring partition coefficients 504(1990)411

Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Correlation of protein partitioning in aqueous polymer two-phase systems 513(1990)137

Hydrophobicity parameters determined by reversed-phase liquid chromatography. I. Relationship between capacity factors and octanol-water partition coefficients for

monosubstituted pyrazines and the related pyridines 514(1990)123

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103

Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227

Mild hydrophobic interaction chromatography: prediction of chromatographic behaviour by preliminary analysis by "partition between aqueous two-phase systems" 538(1991)456

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Properties of supports for the partition chromatography of proteins 542(1991)55

Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Gas chromatographic study of interaction between vinyl chloride and poly(vinyl chloride) 550(1991)171

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Partitioning

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Partition mechanism

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Pattern recognition

Application of pyrolysis-high-resolution gas chromatography-pattern recognition to the identification of the Chinese traditional medicine Mai Dong 514(1990)287

Comparison of cuticular hydrocarbon profiles of fire ants *Solenopsis richteri* from the same colony, using capillary column gas chromatography with pattern recognition 517(1990)95

Patulin pathway metabolites

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Peak area

Responses of different UV-visible detectors in high-performance liquid chromatographic measurements when the absolute number of moles of an analyte is measured 518(1990)135

Influence of the choice of the boundary conditions on the results of the dynamic chromatography model 542(1991)1

Analysis and purification of DNA restriction fragments by high-performance liquid chromatography 548(1991)281

Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345

Peak area ratios

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Peak capacity

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Peak compression

Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61

Regulation of peak compression effects for substituted benzamides in reversed-phase liquid chromatography 506(1990)253

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Peak height

Effect of noise on peak heights calculated using an exponentially modified gaussian peak shape model 539(1991)133

Peak identification

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Peak identification methods

Advances in expert systems for high-performance liquid chromatography 515(1990)13

Peak overlap

Resolution of unresolved peaks containing unknown components by high-performance liquid chromatography with multi-wavelength detection 506(1990)223

Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Peak purity

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Computer spectrochromatography. Principles and practice of multi-channel chromatographic data processing 542(1991)247

Peak pyrolysis

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Peak shape

see also Band profiles

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Silanol effects in reversed-phase liquid chromatography 506(1990)97

Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77

Nature of the eddy dispersion in packed beds 535(1990)189

Effect of noise on peak heights calculated using an exponentially modified gaussian peak shape model 539(1991)133

Computer spectrochromatography. Principles and practice of multi-channel chromatographic data processing 542(1991)247

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Peak splitting

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81

Peak symmetry

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

Peak tailing

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Peak tracking

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Pentafluorophenyl phase

Preparation and comparison of a pentafluorophenyl stationary phase for reversed-phase liquid chromatography 511(1990)79

Peptide fingerprints

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Peptide ligands, synthetic

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

Peptide mapping

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

High-performance liquid chromatography of casein hydrolysates phosphorylated and dephosphorylated. I. Peptide mapping 519(1990)299

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303

Peptide purification

Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47

Perfluorocarbon support

Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177

Perfusion chromatography

Flow-through particles for the high-performance liquid chromatographic separation of biomolecules: perfusion chromatography 519(1990)1

Periplaneta americana

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Perturbation analysis

Perturbation analysis of the influence of the isotherm coupling factor on the resolution between two compounds in chromatography 508(1990)27

Pertussis vaccine

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Pharmaceutical formulations

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Pharmaceutical industry, use of HPLC

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Pharmacokinetics

Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43

Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3

Pharmacological classification

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Phase separation

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Phase systems

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Phase transitions

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})\text{-H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

Crown ethers as stationary phases in gas chromatography. Comparison between dibenzo-18-crown-6, dibenzo-24-crown-8 and dicyclohexano-24-crown-8 with respect to polarity, selectivity and stability 543(1991)179

pH effects

Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249

Phenolic resins

High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97

pH gradients

Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins 516(1990)219

On-line precolumn photochemical generation of pH gradient: micro-high-performance liquid chromatography of methotrexate and its impurities 522(1990)205

Isoelectric focusing field-flow fractionation. Experimental study of the generation of pH gradient 539(1991)111

Phosphate group recognition

Recognition of phosphate groups by immobilized aluminium(III) ions 539(1991)327

Phosphorescence, solid-surface room-temperature

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Photoaffinity labelling

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199

Photochemical reactor

On-line precolumn photochemical generation of pH gradient: micro-high-performance liquid chromatography of methotrexate and its impurities 522(1990)205

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Photoionization detector

Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319

Effect of temperature on the sensitivity of the photoionization detector 540(1991)441

Photoionization electron capture detector

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

Photolysis

High-performance liquid chromatographic method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151

Photometric detection

Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101

Detection in ion chromatography (Review) 546(1991)175

Photooxidation

Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179

Photopolymerization

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Photosystems

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Photothermal deflection spectroscopy

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Physico-chemical parameters

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Pinched inlet channel

Evaluation of pinched inlet channel for stopless flow injection in steric field-flow fractionation 517(1990)423

π - π Interactions

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Pituitary extracts

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Placenta

Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231

Planarity

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Plant analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Plant cuticles

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Plant oils

Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145

Plasma desorption mass spectrometry

Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175

Plasma discharge

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Plasma profiles, drug-free

Evaluation of drug-free plasma profiles by high-performance liquid chromatography following on-line solid-phase extraction 528(1990)277

Plate height

Electrochromatography with continuous sample introduction 515(1990)645

Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3

Influence of thermal variation of diffusion coefficient on non-equilibrium plate height in capillary zone electrophoresis 517(1990)521

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Plate height equation

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

Platelets

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Plate theory

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

Polar interactions

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

Polarity

Comparison of methods for the determination of the polarity and selectivity of stationary phases in gas chromatography from a thermodynamic point of view 517(1990)51

Effect of stationary phase on predictions of the statistical model of overlap from gas chromatograms 550(1991)135

Polarity index

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Polarizability

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Pollen extract

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Polyacrylamide gel, linear

Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33

Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446

Polyacrylamide gels

Method for long-term preservation of thin-layer polyacrylamide gels by producing a gelatine coating 538(1991)504

Polyamide media, grafted

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Polydispersity

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Poly(hydroxystyrene) resins

High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97

Polymer adsorption

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Polymerase chain reaction

Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433

Polymer beads, porous

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Polymer-coated silicas

Evaluation of the stability of polymer-coated silica-based packing materials for high-performance liquid chromatography 517(1990)257

Polymer fractionation

Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429

Polymer particles

Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1

Monosized stationary phases for chromatography 535(1990)147

Poly(γ -methyl L-glutamate) beads

Removal of endotoxins using macroporous spherical poly(γ -methyl L-glutamate) beads and their derivatives 530(1990)148

Polysiloxanes

Preparation and gas chromatographic characterization of some immobilized crown ether-polysiloxane stationary phases 504(1990)279

New polar polysiloxane stationary phases containing cyano, nitrophenyl and 8-quinolinyl units attached to diethylene oxide side groups 540(1991)279

Polysiloxanes, cross-linked

Sorbents with cross-linked polysiloxane phases for gas-liquid chromatography with packed columns 509(1990)85

Poly(styrene-divinylbenzene)

Rigid macroporous copolymers as stationary phases in high-performance liquid chromatography (Review) 544(1991)201

Coated hydrophilic polystyrene-based packing materials 544(1991)233

Poly(vinyl alcohol) media, grafted

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Polyzonal step gradient

Stepwise gradient in thin-layer chromatography of *Chelidonium* alkaloids 518(1990)273

Pore diameter

Porous glass sheets for use in thin-layer chromatography 515(1990)205

Pore diffusivity

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

Pore size

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Effect of pore size on the surface excess isotherm of silica packings 515(1990)159

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Monosized stationary phases for chromatography 535(1990)147

Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157

Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301

Pore size distribution

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Properties of supports for the partition chromatography of proteins 542(1991)55

Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

Pore structure

Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

Porous glass

Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43

Porous glass sheets for use in thin-layer chromatography 515(1990)205

Studies on texture and properties of porous glass and silica gel used as supports for chemically

bonded amino phases for high-performance liquid chromatography 520(1990)237

Porous polymers

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Porous silica fibers

Aligned fiber columns for size-exclusion chromatography 506(1990)303

Positional isomers

Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173

Application of substituted liquid crystals as stationary phases in gas-liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423

Positron emission tomography

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Post-column reactors

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic

- determination of N-methylcarbamate pesticides in food products 507(1990)459
- High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249
- Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179
- High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329
- Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363
- Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435
- High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141
- Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167
- Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141
- Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163
- Post-column reaction detection and flow injection analysis 535(1990)41
- Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443
- Determination of trace elements by ion chromatography. I. Beryllium 538(1991)365
- Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47
- Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343
- Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431
- Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295
- High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365
- Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151
- Separation and detection of non-chromophoric, anionic surfactants 546(1991)395
- Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127
- Potential gradient detector**
Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189
- Potentiometric detector**
Simultaneous conductivity and potentiometric detector for miniaturized liquid chromatography and flow analysis 540(1991)41
- Precipitation**
Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Precolumns

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Improved automated precolumn derivatization reaction of fatty acids with bromomethylmethoxycoumarin as label 502(1990)423

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 515(1990)597

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

On-line sample clean-up of fermentation broths and substrates prior to the liquid chromatographic separation of carbohydrates 523(1990)173

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Preconcentration methods

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Headspace analysis of polar compounds in air 509(1990)107

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79

Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242

Isotachophoresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Pregnancy testing kits

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Preparative chromatography

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Product purity as a function of elution order 503(1990)403

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

Preparative supercritical fluid chromatography (Review) 505(1990)37

- Solutions of the equilibrium and semi-equilibrium models of chromatography 506(1990)495
- Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27
- Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333
- Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97
- Influence of pressure on the maximum production rate in preparative liquid chromatography 511(1990)402
- Influence of pressure on the maximum production rate in preparative liquid chromatography. Reply to the letter of S. Golshan-Shirazi and G. Guiochon 511(1990)404
- Predicting the performance of gel-filtration chromatography of proteins 512(1990)77
- Ion-exchange high-performance liquid chromatographic isolation of the major allergen of parietaria pollen extract 512(1990)115
- Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157
- Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265
- Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365
- Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237
- Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389
- Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137
- Sample introduction and elution method for preparative supercritical fluid chromatography 515(1990)285
- Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229
- Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263
- Multi-component elution overload chromatography of compounds with S-shaped isotherms. A theoretical study 518(1990)77
- Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254
- Preparative high-performance liquid chromatographic columns with an intra-column injection system 520(1990)295
- Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325
- Study of the interaction between two overloaded bands injected successively in non-linear chromatography 522(1990)1
- Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213
- Dependence of the production rate on the relative retention of two components in preparative chromatography 523(1990)1
- Frontal chromatographic techniques in preparative chromatography 523(1990)11
- Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23
- Forced-flow multi-phase liquid extraction, a separation method based on relative and absolute counter-current distribution. I. Description of the method and basic possibilities 523(1990)43

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Large-scale isolation and purification of human apolipoproteins A-I and A-II 537(1991)464

Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography 537(1991)497

Pitfalls in the choice of isotherms for the calculation of band profiles in preparative chromatography. A reply 537(1991)507

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

Comparison of the performances of overloaded elution and displacement chromatography for a given column 540(1991)1

Preparative high-performance liquid chromatography based on reversed-phase gradient elution. Optimum experimental conditions for heavily overloaded separation 540(1991)21

Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85

Use of the LeVan-Vermeulen isotherm model for the calculation of elution band profiles in non-linear chromatography 545(1991)1

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267

Large-scale purification of the synthetic peptide fragment 163-171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Preparative displacement thin-layer chromatography

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Preparative isotachophoretic analyser

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Press-fit connectors

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

Pressure

Influence of pressure on the maximum production rate in preparative liquid chromatography 511(1990)402

Influence of pressure on the maximum production rate in preparative liquid chromatography. Reply to the letter of S. Golshan-Shirazi and G. Guiochon 511(1990)404

Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63

Pressure drop

Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19

Chromatographic characteristics of capillary packed columns with increased pressure drop 520(1990)91

Pressure restrictor

Post-extraction solvent flush of the pressure

restrictor in supercritical fluid extraction
543(1991)187

Principal component analysis

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

High-performance liquid chromatography of amino acids, peptides and proteins. CX. Principal component analysis of four sets of group retention coefficients derived from reversed-phase high-performance liquid chromatography of peptides 548(1991)105

Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography
550(1991)397

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography
550(1991)667

Process analysis

Determination of 2-methylpyrazine and pyrazinamide in reaction mixtures by gas and high-performance liquid chromatography
513(1990)83

Process control

Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination
546(1991)243

Process liquid chromatography

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Process monitoring

Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77

Production rate

Influence of pressure on the maximum production rate in preparative liquid chromatography
511(1990)402

Influence of pressure on the maximum production rate in preparative liquid chromatography. Reply

to the letter of S. Golshan-Shirazi and G. Guiochon 511(1990)404

Dependence of the production rate on the relative retention of two components in preparative chromatography 523(1990)1

Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate
536(1991)57

Comparison of the performances of overloaded elution and displacement chromatography for a given column 540(1991)1

Productivity

Optimisation of frontal chromatography by partial loading 545(1991)27

Product purity

Product purity as a function of elution order
503(1990)403

Programmable temperature vaporizer

Determination of heroin and some common adulterants by capillary gas chromatography
538(1991)269

Protective groups

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline
547(1991)31

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

Protein-binding constants

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants
550(1990)383

Protein-coated octadecylsilane

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Protein conformation

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic

interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Protein-dye interactions

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Protein folding

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Characterization of an adamantly-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383

Protein-gel interactions

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Protein mapping

Recent developments in electrophoretic methods (Review) 516(1990)3

Proteolysis

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

***Psophocarpus tetragonolobus* LDC**

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

Pulsed amperometric detector

Analysis of δ -L- α -amino adipyl-L-cysteiny-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347

Purge-and-trap analysis

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of

varying volatile organic compounds in drinking water sources 513(1990)47

Characterization of volatile components in apricot purées by gas chromatography-mass spectrometry 518(1990)221

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

Purity ratio

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Pyrograms

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Pyrolysis

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Pyrolysis-gas chromatography

Application of pyrolysis-high-resolution gas chromatography-pattern recognition to the identification of the Chinese traditional medicine Mai Dong 514(1990)287

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Q

Quality control

Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305

Quantitator, chromatographic

Towards a chromatographic quantitator 506(1990)265

R

Racemization kinetics

Resolution of enantiomeric lorazepam and its acyl and O-methyl derivatives and racemization kinetics of lorazepam enantiomers 535(1990)229

Radial-flow affinity chromatography

Affinity purification of plasminogen by radial-flow affinity chromatography 539(1991)531

Radiation grafting

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Radioactivity detector

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301

Analysis of ⁵⁵Fe-labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Radiochromatography

Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361

Radiochromatography in pharmaceutical and biomedical analysis 531(1990)101

Radiofrequency detector

Radiofrequency detector for gas chromatography 520(1990)97

Radio-gas chromatography

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Radioimmunoassay

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Radioisotope detector

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Radiolabelling

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301

Analysis of ⁵⁵Fe-labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Radiosensitizing agents

Determination of N-(3-nitro-4-quinoline)-morpholino-4-carboxamide in plasma by high-performance liquid chromatography 520(1990)379

Raman spectroscopy

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

RAST test

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Rate constants

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Rate equation model

Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285

Rate model

Equilibrium elution chromatography. The column-origin boundary condition 550(1991)247

Reaction detection

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Reaction kinetics

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Receptor affinity chromatography

Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59

Recovery

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Optimization of experimental conditions in preparative liquid chromatography. Trade-offs between recovery yield and production rate 536(1991)57

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Recycling electrophoresis

Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315

Refractive index

Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91

Refractive index detector

Detection in ion chromatography (Review) 546(1991)175

Refractive index gradient detector

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Regression models

Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101

Relative retention times

Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131

Resins

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Resolution

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Perturbation analysis of the influence of the isotherm coupling factor on the resolution between two compounds in chromatography 508(1990)27

Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365

Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method 513(1990)13

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. I. Theory and verification 535(1990)55

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161

Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173

Resolution and concentration detection limit in capillary gel electrophoresis 545(1991)177

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Resolution enhancement of chromatographic data. Considerations in achieving super-resolution with the constrained iterative relaxation method 550(1991)51

Resolution mapping

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Optimized isocratic separation of major carboxylic acids in wine 542(1991)277

Response value

Isotachopheresis with two leading ions and migration behaviour in capillary zone

electrophoresis. I. Isotachopheresis with two leading ions 508(1990)3

Retention behaviour

Regression against temperature of gas chromatographic retention data 504(1990)45

Retention and selectivity in supercritical fluid chromatography on an octadecylsilyl-silica column 505(1990)147

Retention studies in supercritical fluid chromatography 505(1990)161

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl) ethyldimethylsilylated silica column 507(1990)389

Influence of dissociation equilibria on the elution behaviour of the sample anion in anion chromatography 508(1990)51

Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309

Even-odd alternation effect in the regularities of chromatographic retention 509(1990)15

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

- Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45
- Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97
- Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111
- Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555
- Retention of eleven priority phenols using micellar electrokinetic chromatography 516(1990)263
- Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355
- Characterization of polymers by thermal field-flow fractionation 517(1990)405
- Use of chromatographic retention measurements to obtain solubilities in a liquid or supercritical fluid mobile phase 517(1990)459
- Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244
- Reversed-phase thin-layer and gas chromatographic retention behaviour of triphenylmethane derivatives 520(1990)217
- Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128
- Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267
- Dependence of the production rate on the relative retention of two components in preparative chromatography 523(1990)1
- High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. I. Theory and verification 535(1990)55
- Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- High-performance liquid chromatography of red fruit anthocyanins 537(1991)101
- Gas chromatographic identification of complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305
- Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341
- Prediction of retention times in temperature-programmed multichromatography 540(1991)311
- Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161
- High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117
- Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Retention gap

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Study of large sample volume injection in a capillary gas chromatographic-Fourier transform infrared system using a retention gap column 547(1991)494

Retention indices

Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsalicylaldehyde oximes 503(1990)442

Calculation of programmed temperature gas chromatographic characteristics from isothermal data. III. Predicted retention indices and equivalent temperatures 504(1990)269

Retention and selectivity in supercritical fluid chromatography on an octadecylsilyl-silica column 505(1990)147

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Use of M-series retention index standards in the identification of trichothecenes by electron impact mass spectrometry 513(1990)31

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329

Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149

Reversed-phase thin-layer and gas chromatographic retention behaviour of triphenylmethane derivatives 520(1990)217

Analysis of haloalkanes on wide-bore capillary columns of different polarity connected in series 522(1990)329

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. II. Alkyl substitution of quinazolone derivatives 537(1991)371

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. III. Variation of ring size 537(1991)377

Retention index monitoring of compounds of chemical defence interest using thermal desorption gas chromatography 538(1991)249

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Capillary gas chromatographic and combined gas chromatography-mass spectrometric study of the volatile fraction of a coal tar pitch using OV-1701 stationary phase 539(1991)157

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Crown ethers as stationary phases in gas chromatography. Comparison between dibenzo-18-crown-6, dibenzo-24-crown-8 and dicyclohexano-24-crown-8 with respect to polarity, selectivity and stability 543(1991)179

Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355

Comparison of the selectivity of di (methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Improved method for prediction of gas chromatographic retention indices of C₉-C₁₂ alkylbenzenes 549(1991)325

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

Retention mechanisms

Study of the retention mechanism of proteins in hydrophobic interaction chromatography 507(1990)1

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

(*S*)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181

Retention effects in thermal field-flow fractionation 517(1990)377

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Molecular interactions in liquid chromatography 537(1991)33

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775

Retention models

Physicochemical model of retention for capillary supercritical fluid chromatography 505(1990)79

Extension of the electrostatic retention model of reversed-phase ion-pair chromatography to include the simultaneous effects of the organic modifier and the pairing ion 506(1990)85

Separation of simple ions by gel chromatography. I. Simple model of separation for single-salt systems 511(1990)59

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Isomer identification and gas chromatographic retention studies of monomeric cyclic fatty acid methyl esters 537(1991)329

Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Retention parameters

Effects of molecular structure on parameters a , b and c in the fundamental retention equation 509(1990)171

Retention prediction

Effects of molecular structure on parameters a , b and c in the fundamental retention equation 509(1990)171

Isomer identification and gas chromatographic retention studies of monomeric cyclic fatty acid methyl esters 537(1991)329

Computer simulation as an aid in method development for gas chromatography. I. The accurate prediction of separation as a function of experimental conditions 541(1991)1

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Improved method for prediction of gas chromatographic retention indices of C_9 - C_{12} alkylbenzenes 549(1991)325

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. VI. Disubstituted aromatic compounds 550(1991)335

Retention surfaces

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Retention times

Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3

Computer spreadsheet calculation of the optimum temperature and column lengths for serially coupled capillary gas chromatographic columns 541(1991)59

Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77

Retention volume

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Regression against temperature of gas chromatographic retention data 504(1990)45

Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1

Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329

- Lead selenide as a polar adsorbent for gas chromatography 520(1990)15
- Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47
- Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269
- Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488
- Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile–water mixtures 550(1991)285
- Reticulocytes**
Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411
- Reversed-flow gas chromatography**
Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181
- Reversed-phase materials**
Apparent simplicity of reversed stationary phases for high-performance liquid chromatography (Review) 544(1991)77
- Reviews**
Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1
- Chromatographic analysis of chemical warfare agents (Review) 503(1990)293
- Environmental applications of ion chromatography (Review) 504(1990)211
- Packed columns in supercritical fluid chromatography (Review) 505(1990)3
- Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19
- Preparative supercritical fluid chromatography (Review) 505(1990)37
- Coupling of supercritical fluid extraction with chromatographic techniques (Review) 505(1990)45
- Application of avidin–biotin technology to affinity-based separations (Review) 510(1990)3
- Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13
- Progress in affinophoresis (Review) 510(1990)251
- Biosensors (Review) 510(1990)347
- Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415
- Recent developments in electrophoretic methods (Review) 516(1990)3
- Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247
- Recent advances in counter-current chromatography (Review) 538(1991)3
- Counter-current chromatography (Review) 538(1991)27
- Dual counter-current chromatography —its applications in natural products research (Review) 538(1991)37
- Applications of analytical high-speed counter-current chromatography in natural products chemistry (Review) 538(1991)45
- Polymer ligands for mild hydrophobic interaction chromatography —principles, achievements and future trends (Review) 539(1991)297
- High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13
- Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41
- Bare silica, dynamically modified with long-chain quaternary ammonium ions — the technique of choice for more reproducible selectivity in reversed-phase high-performance liquid chromatography (Review) 544(1991)53

- Apparent simplicity of reversed stationary phases for high-performance liquid chromatography (Review) 544(1991)77
- Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125
- Controlled-pore glass as a stationary phase in chromatography (Review) 544(1991)137
- Hydroxyapatite as a liquid chromatographic packing (Review) 544(1991)147
- Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187
- Rigid macroporous copolymers as stationary phases in high-performance liquid chromatography (Review) 544(1991)201
- Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219
- Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249
- Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257
- Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283
- Electrochemical chromatography—packings, hardware and mechanisms of interaction (Review) 544(1991)305
- Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319
- Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345
- Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371
- Design requirements of silica-based matrices for biopolymer chromatography (Review) 544(1991)413
- Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369
- Twenty years of ion chromatography (Review) 546(1991)3
- Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73
- Principles and applications of ion-exclusion chromatography (Review) 546(1991)111
- Detection in ion chromatography (Review) 546(1991)175
- Use of ion chromatography in agricultural research (Review) 546(1991)387
- Silica: backbone material of liquid chromatographic column packings (Review) 549(1991)1
- Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193
- Structure-retention correlation in liquid chromatography (Review) 550(1991)313
- Chiral stationary phases derived from tyrosine (Review) 550(1991)357
- Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425
- Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461
- Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775
- Ring size effects**
Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. III. Variation of ring size 537(1991)377
- Ruggedness**
High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75
- R_M values**
Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523

S

Salt extraction

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Salvia miltiorrhiza

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Sample collection, continuous

Continuous sample collection in capillary zone electrophoresis by coupling the outlet of a capillary to a moving surface 516(1990)185

Sample composition

Effect of sample composition on the separation efficiency of isotachopheresis 545(1991)267

Sample displacement mode chromatography

Sample displacement mode chromatography: purification of proteins by use of a high-performance anion-exchange column 541(1991)207

Sample introduction

Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Sample introduction in gas chromatography: simple method for the solventless introduction of crude samples of biological origin 518(1990)207

Sample load

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393

Sample loading

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

Sample preparation

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Preparative isotachopheretic analyser equipped with a dropwise fractionating device 513(1990)297

Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442

Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

On-line sample clean-up of fermentation broths and substrates prior to the liquid chromatographic separation of carbohydrates 523(1990)173

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67

High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Sampler, double-layer tube-type passive

Evaluation tests and applications of a double-layer tube-type passive sampler 522(1990)285

Sample storage

Investigation of the chemical stability of (D-Phe⁶, Gln⁸) GnRH (1-9)-ethylamide (Folligen) by high-performance liquid chromatography 547(1991)121

Sample throughput

Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213

Sampling techniques

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Sandwich chamber, horizontal

Modification of a horizontal sandwich chamber for thin-layer chromatography 516(1990)461

Saturation capacity

Computer simulations of displacement chromatography of systems with species-dependent saturation capacities 538(1991)285

Scanning UV photometric detector

Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Scintillation counting

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301

Screen-segmented column isotachopheresis

Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315

Sea water

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Second derivative UV absorption spectroscopy

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Second order reactions

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Sediment analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Sedimentation effects

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Sedimentation field-flow fractionation

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Optimization study of octane-in-water emulsions by sedimentation field-flow fractionation 517(1990)333

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Sedimentation field-flow fractionation for pigment quality assessment 517(1990)395

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Sedimentation rate

Packing of preparative high-performance liquid chromatography columns by sedimentation 523(1990)23

Sediment pore waters

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317

Sediments

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Seeds

Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393

Selective sorbents

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Selectivity

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

Implications of solvent selectivity triangles in assessing stationary phases for gas chromatography 504(1990)186

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Retention and selectivity in supercritical fluid chromatography on an octadecylsilyl-silica column 505(1990)147

Silanol effects in reversed-phase liquid chromatography 506(1990)97

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Regulation of peak compression effects for substituted benzamides in reversed-phase liquid chromatography 506(1990)253

Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

Comparison of methods for the determination of the polarity and selectivity of stationary phases in gas chromatography from a thermodynamic point of view 517(1990)51

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Solute retention in micellar liquid chromatography 542(1991)29

Bare silica, dynamically modified with long-chain quaternary ammonium ions – the technique of choice for more reproducible selectivity in reversed-phase high-performance liquid chromatography (Review) 544(1991)53

Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393

Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

Selectivity optimization

Computer spreadsheet calculation of the optimum temperature and column lengths for serially coupled capillary gas chromatographic columns 541(1991)59

Prediction of initial high-performance liquid chromatographic conditions for selectivity optimization in pharmaceutical analysis by an expert system approach 550(1991)87

Selectivity parameters

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Selectivity surfaces

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Selectivity triangle

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Selectivity tuning

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Semipermeable-surface columns

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Semipermeable-surface reversed-phase media for high-performance liquid chromatography 544(1991)25

Sensitivity enhancement

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

Sensors

Biosensors (Review) 510(1990)347

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Separation efficiency

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Effect of sample composition on the separation efficiency of isotachopheresis 545(1991)267

Separation number

Determination of absolute mobilities, pK values and separation numbers by capillary zone electrophoresis. Effective mobility as a parameter for screening 537(1991)407

Sequencing methods

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

Series-coupled columns

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Settling time

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Sheathed flow

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Sheath flow cuvette

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Shellfish

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Shielded hydrophobic phases

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of

small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Shielding effects, stationary phases

Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53

Shiitake mushroom

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Short chain branching

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Side-chain protecting groups

High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249

Signal sharing

Calcul de la composition, avec une constante de proportionnalité, de mélanges à partir du chromatogramme obtenu par détection partagée entre deux détecteurs 519(1990)159

Silanization

Aligned fiber columns for size-exclusion chromatography 506(1990)303

Silanol groups

Confirmation and application of transmission near infrared absorption technique for absolute quantitation of functional groups on silica gel 503(1990)69

Silanol effects in reversed-phase liquid chromatography 506(1990)97

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Apparent simplicity of reversed stationary phases for high-performance liquid chromatography (Review) 544(1991)77

Silica-based matrices

Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Design requirements of silica-based matrices for biopolymer chromatography 544(1991)413

Silica, colloidal

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Silica gel

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345

Silica: backbone material of liquid chromatographic column packings (Review) 549(1991)1

Hydrogen-deuterium exchange in fused-silica capillary columns 549(1991)416

Silica gel, cyanopropyl-derivatized

Liquid chromatography of organotin compounds on cyanopropyl silica gel 507(1990)427

Silica gel, phosphinated

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Silica gel, plasma-modified

Short columns for gas chromatography packed with plasma-modified silica gels 520(1990)33

Silica gel, polystyrene-coated

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Silica gel, spherical non-porous

Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547

Silica gel, surface pH

Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249

Silica gel, wide-pore

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319

Silicone oil

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Silicon wafers

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243

Simplex method

Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method 513(1990)13

Size exclusion

Properties of supports for the partition chromatography of proteins 542(1991)55

Size-exclusion chromatography

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Size fractionation

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Sludge analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Smokers' breath

Identification of exposure markers in smokers' breath 511(1990)291

Snake venoms

Isolation of a fibrinogen-converting enzyme ficolzyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312

Sniffing

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

Sodium hydroxide treatment

Silica-dextran sorbent composites and their cleaning in place 523(1990)35

Soil analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Solid-phase catalysis

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Solid-phase extraction

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

High-performance liquid chromatographic determination of the mucoregulatory drug CO/1408 in rat plasma and urine 507(1990)227

Use of polymeric sorbents for the off-line preconcentration of priority pollutant phenols from water for high-performance liquid chromatographic analysis 509(1990)135

Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

Identification using solid phase extraction and gas chromatography-mass spectrometry of timolol in equine urine after intravenous administration 518(1990)215

Derivatization-liquid chromatographic assay of chloroacetaldehyde in biological samples 518(1990)385

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Solid-phase extraction of sulfamethazine in milk with quantitation at low ppb levels using thin-layer chromatography 519(1990)179

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Determination of nine acidic herbicides in water and soil by gas chromatography using an electron-capture detector 537(1991)385

Properties and biomedical applications of packings with high-density coverage of C₁₈ chemically bonded phase for high-performance liquid chromatography and solid-phase extraction 538(1991)293

Characterization of cyano bonded silica phases from solid-phase extraction columns. Correlation of surface chemistry with chromatographic behavior 542(1991)205

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621

Solid-phase isolation

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Solid-phase reactor

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Solid-phase reagents

Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Solid-state nuclear magnetic resonance spectroscopy

Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345

Solid-surface room-temperature phosphorescence

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Solubility

Quantitative correlations between solute molecular structure and solubility in supercritical fluids 517(1990)449

Use of chromatographic retention measurements to obtain solubilities in a liquid or supercritical fluid mobile phase 517(1990)459

Solvent selection guide for counter-current chromatography 538(1991)109

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Solubility parameters

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Effect of composition of polyacrylamide gels on exclusion limits 535(1990)173

Solubility properties

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Solute selectivity

Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117

Solute-solvent interactions

Comments on solute-solvent interactions in quantitative high-performance liquid chromatography 502(1990)236

Solute-sorbent interactions

Determination of contributions of different types of solute-sorbent interactions in gas-adsorption chromatography by linear regression of adsorption energies 537(1991)295

Solute-stationary phase interactions

Confirmation and application of transmission near infrared absorption technique for absolute quantitation of functional groups on silica gel 503(1990)69

Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775

Solvation energy

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Solvatochromic behaviour

Linear solvation energy relationships in the study of the solvatochromic properties and liquid chromatographic retention behaviour of benzodiazepines 522(1990)37

Solvatochromic parameters

Solvatochromic hydrogen bond donor acidity of aqueous binary solvent mixtures for reversed-phase liquid chromatography 513(1990)107

Empirical scheme for the classification of gas chromatographic stationary phases based on solvatochromic linear solvation energy relationships 517(1990)103

Quantitative correlation of the parameters $\log k'_w$ and $-S$ in the retention equation in reversed-phase high-performance liquid chromatographic and solvatochromic parameters 522(1990)49

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Solvent effects

High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333

Solvent elimination

Coupling of microcolumn high-performance liquid chromatography with Fourier transform infrared spectrometry 506(1990)443

Solvent extraction

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289

Solvent flushing

Post-extraction solvent flush of the pressure restrictor in supercritical fluid extraction 543(1991)187

Solvent-generated ion exchange

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Solvent segmentation, post column

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids using post-column solvent segmentation 508(1990)301

Solvent selection

Solvent selection guide for counter-current chromatography 538(1991)109

Solvent selectivity

Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography 550(1991)397

Solvent selectivity effects

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Solvent selectivity triangle

Implications of solvent selectivity triangles in assessing stationary phases for gas chromatography 504(1990)186

Solvent strength

Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213

Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Multivariate characterization of solvent strength and solvent selectivity in reversed-phase high-performance liquid chromatography 550(1991)397

Solvent systems

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Practical approach to high-speed counter-current chromatography 550(1991)677

Solvophobic interactions

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Solvophobic theory

High-performance liquid chromatography of amino acids, peptides and proteins. CX. Principal component analysis of four sets of group retention coefficients derived from reversed-phase high-performance liquid chromatography of peptides 548(1991)105

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Sorbate-sorbent interactions

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Sorbents

see also Adsorbents

Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Sorbents with cross-linked polysiloxane phases for gas-liquid chromatography with packed columns 509(1990)85

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Use of polymeric sorbents for the off-line preconcentration of priority pollutant phenols from water for high-performance liquid chromatographic analysis 509(1990)135

Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339

Silica-dextran sorbent composites and their cleaning in place 523(1990)35

Sorption

Sorption of primary *n*-alkanols on Tenax 518(1990)234

Sorption isotherms

see also Adsorption isotherms

Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139

Sorption isotherms of organic vapours on Tenax 514(1990)279

Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile-water mixtures 550(1991)285

Sorption, partial molar free energy

Comparison of methods for the determination of the polarity and selectivity of stationary phases in gas chromatography from a thermodynamic point of view 517(1990)51

Soxhlet extraction

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539

Speciation

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Spectral libraries, UV

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Speed of analysis

Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19

Very high speed separation of proteins with a 20- μ m reversed-phase sorbent 547(1991)452

Split-peak effect

Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81

Stability constants

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

Stability, stationary phases

Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53

Static coating

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

Stationary phase retention

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). I. Design of the apparatus and studies on retention of stationary phase 538(1991)59

Cross-axis synchronous flow-through coil planet centrifuge (Type XLL). II. Speculation on the hydrodynamic mechanism in stationary phase retention 538(1991)67

Stationary phases, GC

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Regression against temperature of gas chromatographic retention data 504(1990)45

Implications of solvent selectivity triangles in assessing stationary phases for gas chromatography 504(1990)186

Preparation and gas chromatographic characterization of some immobilized crown ether-polysiloxane stationary phases 504(1990)279

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Sorbents with cross-linked polysiloxane phases for gas-liquid chromatography with packed columns 509(1990)85

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Possible value of a liquid crystal stationary phase for the gas chromatographic study of aromatic constituents of essential oils 513(1990)311

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Comparison of methods for the determination of the polarity and selectivity of stationary phases in gas chromatography from a thermodynamic point of view 517(1990)51

Empirical scheme for the classification of gas chromatographic stationary phases based on solvatochromic linear solvation energy relationships 517(1990)103

Capillary gas chromatography with graphitized carbon black 517(1990)123

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

- Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53
- Hydrogen bonding. XV. A new characterisation of the McReynolds 77-stationary phase set 518(1990)329
- Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359
- Quantitative determination of free volatile fatty acids from dairy products on a Nukol capillary column 519(1990)369
- Lead selenide as a polar adsorbent for gas chromatography 520(1990)15
- Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21
- Short columns for gas chromatography packed with plasma-modified silica gels 520(1990)33
- Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47
- Determination of heats of adsorption on graphite and on a microporous carbon black by gas-solid chromatography 520(1990)69
- High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75
- Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85
- Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99
- Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128
- Analysis of haloalkanes on wide-bore capillary columns of different polarity connected in series 522(1990)329
- Liquid crystals for the gas chromatographic determination of the stereochemistry of insect sex pheromones 537(1991)482
- Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217
- New polar polysiloxane stationary phases containing cyano, nitrophenyl and 8-quinolinyl units attached to diethylene oxide side groups 540(1991)279
- Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99
- Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131
- Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145
- Crown ethers as stationary phases in gas chromatography. Comparison between dibenzo-18-crown-6, dibenzo-24-crown-8 and dicyclohexano-24-crown-8 with respect to polarity, selectivity and stability 543(1991)179
- Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259
- Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283
- Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335
- Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273
- Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. CH₃N⁺H₃, (CH₃)₄N⁺, (CH₃)₃N⁺CH₂C₆H₅ and 1,4-diazabicyclo[2.2.2]octane · 2H⁺ 549(1991)283

Hydrogen–deuterium exchange in fused-silica capillary columns 549(1991)416

Application of substituted liquid crystals as stationary phases in gas–liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423

Measurement of solute dipolarity/polarizability and hydrogen bond acidity by inverse gas chromatography 550(1991)101

Effect of stationary phase on predictions of the statistical model of overlap from gas chromatograms 550(1991)135

Application of multivariate analysis to the selection of test solutes for characterizing stationary phase selectivity in gas chromatography 550(1990)213

Stationary phases, LC

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

Silanol effects in reversed-phase liquid chromatography 506(1990)97

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Aligned fiber columns for size-exclusion chromatography 506(1990)303

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads 506(1990)319

Peptide behaviour and analysis on a chemically stable C_{18} -bonded vinyl alcohol copolymer column with alkaline and acidic eluents 506(1990)327

Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

- Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391
- Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481
- Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547
- Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253
- Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl) ethyldimethylsilylated silica column 507(1990)389
- Liquid chromatography of organotin compounds on cyanopropyl silica gel 507(1990)427
- Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217
- High-performance affinity chromatography of DNA 508(1990)279
- Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289
- High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213
- Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233
- Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245
- Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13
- Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71
- High-performance affinity chromatography of concanavalin A 510(1990)95
- Tresyl-activated support for high-performance affinity chromatography 510(1990)101
- Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115
- Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123
- New ion exchangers for the chromatography of biopolymers 510(1990)133
- High-performance affinity chromatography of basic fibroblast growth factor on polystyrene sulphonate resins modified with serine 510(1990)141
- Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149
- Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155
- Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165
- Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177
- Composite affinity sorbents and their cleaning in place 510(1990)213
- One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

- Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281
- Site-directed immobilization of proteins 510(1990)293
- Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311
- Glucose-silica, an improved medium for high-pressure gel filtration chromatography 511(1990)69
- Preparation and comparison of a pentafluorophenyl stationary phase for reversed-phase liquid chromatography 511(1990)79
- Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89
- Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 511(1990)147
- Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B₁ in raw ground unskinned peanuts 511(1990)379
- Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165
- Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227
- High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237
- Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273
- Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315
- Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345
- Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365
- Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377
- Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433
- Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145
- Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219
- Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227
- Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367
- High-performance ion-exchange chromatography of peptides on a pellicular ion exchanger 513(1990)384
- Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1
- Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11
- Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97
- Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

- Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137
- High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219
- Separation of peracetylated flavanoid and flavanoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334
- Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3
- Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43
- Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49
- Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59
- Method for the preparation of internal-surface reversed-phase packing materials starting from alkylsilylated silica gels 515(1990)73
- Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91
- Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149
- Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169
- Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175
- Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183
- Binding capacities of hydroxyapatite for globular proteins 515(1990)193
- Separation of membrane protein-sodium dodecyl sulphate complexes by high-performance liquid chromatography on hydroxyapatite 515(1990)399
- High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521
- Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531
- High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563
- Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301
- Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333
- Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355
- Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383
- Dispersion in the interstitial space of packed columns 517(1990)31
- Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193
- Evaluation of the stability of polymer-coated silica-based packing materials for high-performance liquid chromatography 517(1990)257
- Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263
- Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

High-performance size-exclusion chromatography of porcine colonic mucins. Comparison of Bio-Gel® TSK 40XL and Sepharose® 4B columns 518(1990)349

Flow-through particles for the high-performance liquid chromatographic separation of biomolecules: perfusion chromatography 519(1990)1

Evaluation of a zirconia-based carbon-polymer composite reversed-phase chromatographic support 519(1990)31

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldononitriles 519(1990)228

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29

Purification of the subunits of pea mitochondrial F_1 -ATPase by high-performance liquid chromatography 521(1990)43

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Silica-dextran sorbent composites and their cleaning in place 523(1990)35

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Monosized stationary phases for chromatography 535(1990)147

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Effect of composition of polyacrylamide gels on exclusion limits 535(1990)173

Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid-acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a

- highly cross-linked polymeric micropellicular support 536(1991)155
- Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245
- Size-exclusion chromatography of lignocellulosics in wheat straw 536(1991)303
- Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1
- Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17
- Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73
- Properties and biomedical applications of packings with high-density coverage of C₁₈ chemically bonded phase for high-performance liquid chromatography and solid-phase extraction 538(1991)293
- Mild hydrophobic interaction chromatography: prediction of chromatographic behaviour by preliminary analysis by "partition between aqueous two-phase systems" 538(1991)456
- Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15
- Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255
- Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289
- Polymer ligands for mild hydrophobic interaction chromatography —principles, achievements and future trends (Review) 539(1991)297
- Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307
- Immobilized Cibacron Blue —leachables, support stability and toxicity on cultured cells 539(1991)355
- Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417
- Characterization and stability of silanized and polymer-coated octadecyl reversed phases 540(1991)53
- Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85
- Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103
- Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221
- Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303
- Properties of supports for the partition chromatography of proteins 542(1991)55
- Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65
- Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83
- Characterization of cyano bonded silica phases from solid-phase extraction columns. Correlation of surface chemistry with chromatographic behavior 542(1991)205
- Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239
- Chromatographic stability of silica-based aminopropyl-bonded stationary phases 543(1991)1
- Coated silica and its behaviour in dye-affinity chromatography 543(1991)9

New ligands for boronate affinity chromatography. Synthesis and properties 543(1991)17

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315

High-performance liquid chromatography packing materials for the analysis of small molecules in biological matrices by direct injection (Review) 544(1991)13

Semipermeable-surface reversed-phase media for high-performance liquid chromatography 544(1991)25

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Bare silica, dynamically modified with long-chain quaternary ammonium ions – the technique of choice for more reproducible selectivity in reversed-phase high-performance liquid chromatography (Review) 544(1991)53

Apparent simplicity of reversed stationary phases for high-performance liquid chromatography (Review) 544(1991)77

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125

Controlled-pore glass as a stationary phase in chromatography (Review) 544(1991)137

Hydroxyapatite as a liquid chromatographic packing (Review) 544(1991)147

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Rigid macroporous copolymers as stationary phases in high-performance liquid chromatography (Review) 544(1991)201

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Coated hydrophilic polystyrene-based packing materials 544(1991)233

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Perfusion chromatography packing materials for proteins and peptides 544(1991)267

Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283

Electrochemical chromatography —packings, hardware and mechanisms of interaction (Review) 544(1991)305

Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319

Characterization of bonded phases by solid-state NMR spectroscopy (Review) 544(1991)345

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Characterization of reversed phases by chemometric methods 544(1991)381

Factor analysis and experiment design in high-performance liquid chromatography. X. Chemometric characterization of packings, solvents and solutes with hierarchical ascending classification and correspondence factor analysis 544(1991)393

Design requirements of silica-based matrices for biopolymer chromatography 544(1991)413

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

- Separation of ribosomal subunits on Trisacryl GF 2000 545(1991)196
- Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73
- Universal stationary phase for the separation of anions on suppressor-based and single-column ion chromatographic systems 546(1991)89
- Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101
- Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199
- Azide determination in protein samples by ion chromatography 546(1991)325
- Low-capacity latex-coated resins for anion chromatography 547(1991)11
- Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21
- Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443
- Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93
- Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165
- Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195
- Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207
- Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243
- Silica: backbone material of liquid chromatographic column packings (Review) 549(1991)1
- Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29
- Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43
- Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59
- Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77
- Ion chromatography of inorganic iodine species using C₁₈ reversed-phase columns coated with cetyltrimethylammonium 549(1991)265
- Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267
- Stationary phase effects in reversed-phase liquid chromatography under overload conditions 550(1991)301
- High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383
- Stationary phase solvation**
Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775
- Stationary phases, SFC**
Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139

Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563

Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Stationary phases, TLC

Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45

Porous glass sheets for use in thin-layer chromatography 515(1990)205

Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Statistical models

Effect of stationary phase on predictions of the statistical model of overlap from gas chromatograms 550(1991)135

Step gradients

Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79

Stepwise elution

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

Stereo-isomers

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

Stereoselectivity

Analytical gas chromatographic separations of diastereomeric *tert.*-butylmethoxyphenylsilyl ethers 514(1990)305

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Steric field-flow fractionation

Evaluation of pinched inlet channel for stopless flow injection in steric field-flow fractionation 517(1990)423

Stokes' diameter

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Streaming potential measurements

Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323

Streptomyces hygroscopicus

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Stroboscopic sampling

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Structural descriptors

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

Structural isomers

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Structure-activity relationships

Hydrophobicity parameters determined by reversed-phase liquid chromatography. I.

- Relationship between capacity factors and octanol-water partition coefficients for monosubstituted pyrazines and the related pyridines 514(1990)123
- Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161
- Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523
- Structure-function relationships**
Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187
- Structure-nucleotide incorporation rate relationship**
Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35
- Structure-retention relationships**
Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsalicylaldehyde oximes 503(1990)442
- Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163
- Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3
- Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119
- Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367
- Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl) ethyldimethylsilylated silica column 507(1990)389
- Structure-retention correlations of isomeric alkylphenols in gas-liquid chromatography 509(1990)3
- Effects of molecular structure on parameters a , b and c in the fundamental retention equation 509(1990)171
- Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111
- Advances in expert systems for high-performance liquid chromatography 515(1990)13
- Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333
- Relationship between the structure and retention of n -alkenes and n -alkynes on silicone phases 520(1990)137
- Linear solvation energy relationships in the study of the solvatochromic properties and liquid chromatographic retention behaviour of benzodiazepines 522(1990)37
- Quantitative correlation of the parameters $\log k'_w$ and $-S$ in the retention equation in reversed-phase high-performance liquid chromatographic and solvatochromic parameters 522(1990)49
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Analysis of haloalkanes on wide-bore capillary columns of different polarity connected in series 522(1990)329
- Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357
- High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. II. Alkyl substitution of quinazolone derivatives 537(1991)371

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. III. Variation of ring size 537(1991)377

High-performance liquid chromatography of substituted trinuclear osmium carbonyl clusters, $\text{Os}_3(\text{CO})_{12-n}[\text{P}(\text{C}_6\text{F}_5)_3]_n$ ($n=0, 1, 2$) 537(1991)475

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

High-performance liquid chromatography of amino acids, peptides and proteins. CX. Principal component analysis of four sets of group retention coefficients derived from reversed-phase high-performance liquid chromatography of peptides 548(1991)105

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. VI. Disubstituted aromatic compounds 550(1991)335

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Sulphobetaine stationary phase

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Sulphuric acid treatment

Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333

Sunflower

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Superadsorbents

Fate of superadsorbents in the environment. Analytical techniques 513(1990)93

Supercritical capillary electrophoresis

High-pressure and supercritical capillary electrophoresis 517(1990)573

Supercritical fluid chromatography

Packed columns in supercritical fluid chromatography (Review) 505(1990)3

Some aspects of capillary supercritical fluid chromatography (Review) 505(1990)19

Preparative supercritical fluid chromatography (Review) 505(1990)37

Coupling of supercritical fluid extraction with chromatographic techniques (Review) 505(1990)45

Physicochemical model of retention for capillary supercritical fluid chromatography 505(1990)79

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of

- pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109
- Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119
- Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139
- Retention and selectivity in supercritical fluid chromatography on an octadecylsilyl-silica column 505(1990)147
- Retention studies in supercritical fluid chromatography 505(1990)161
- Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169
- Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179
- Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191
- Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199
- Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215
- Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237
- Isolation of tocopherols from wheat germ oil by recycle semi-preparative supercritical fluid chromatography 505(1990)257
- Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273
- Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283
- Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293
- Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299
- Comparison of high-performance liquid chromatography, supercritical fluid chromatography and capillary zone electrophoresis in drug analysis 507(1990)125
- Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257
- Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253
- Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309
- Sample introduction and elution method for preparative supercritical fluid chromatography 515(1990)285
- Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295
- Separation of amphetamines by supercritical fluid chromatography 515(1990)385
- Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509
- Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515
- Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555
- Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629
- Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and

symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

Plate height theory for compressible mobile phase fluids and its application to gas, liquid and supercritical fluid chromatography 517(1990)3

Quantitative correlations between solute molecular structure and solubility in supercritical fluids 517(1990)449

Use of chromatographic retention measurements to obtain solubilities in a liquid or supercritical fluid mobile phase 517(1990)459

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

Analysis of azadirachtin by supercritical-fluid chromatography 519(1990)137

Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63

Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267

Determination of mefloquine in blood by supercritical fluid chromatography with electron-capture detection 527(1990)51

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Enthalpy of transfer in supercritical fluid chromatography 543(1991)262

Derivatization of hydroxyeicosatetraenoic acid methyl esters with pentafluorobenzoic anhydride and analysis with supercritical fluid chromatography-chemical ionization mass spectrometry 543(1991)405

Generalized treatment of spatial and temporal column parameters, applicable to gas, liquid and supercritical fluid chromatography. II. Application to supercritical CO₂ 545(1991)135

Factors governing the analytical supercritical fluid extraction and supercritical fluid chromatographic retention of polycyclic aromatic hydrocarbons 545(1991)149

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393

Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765

Sorption isotherms in supercritical fluid chromatography (Review) 550(1991)775

Supercritical fluid extraction

Coupling of supercritical fluid extraction with chromatographic techniques (Review) 505(1990)45

Integrated analysis of solid samples by on-line supercritical fluid extraction-gas chromatography 505(1990)227

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction–supercritical fluid chromatography 505(1990)273

Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction–elution with supercritical carbon dioxide 515(1990)295

Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555

Quantitative correlations between solute molecular structure and solubility in supercritical fluids 517(1990)449

Quantitative extraction of linear alkylbenzenesulfonates using supercritical carbon dioxide and a simple device for adding modifiers 541(1991)185

Post-extraction solvent flush of the pressure restrictor in supercritical fluid extraction 543(1991)187

Supercritical fluid extraction from a brown alga by stagewise pressure increase 543(1991)413

Factors governing the analytical supercritical fluid extraction and supercritical fluid chromatographic retention of polycyclic aromatic hydrocarbons 545(1991)149

Superdex 75

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Superdex 200

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Suppressed conductivity

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Suppressors

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Surface accessibility

High-performance liquid chromatography of insulin. Accessibility and flexibility 502(1990)325

Surface area

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Evaluation of the stability of polymer-coated silica-based packing materials for high-performance liquid chromatography 517(1990)257

Tracer pulse chromatographic method for the determination of nitrogen BET isotherms and surface areas 518(1990)319

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Surface excess isotherms

Effect of pore size on the surface excess isotherm of silica packings 515(1990)159

Surface heterogeneity

Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1

Surface interaction

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose–avidin system 510(1990)23

Surface kinetics

High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Surface potential

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Surface pressure–area isotherms

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir–Blodgett film studies 542(1991)307

Surface structure

Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125

Surface treatment

Surface treatment effects in microcolumn liquid chromatography 540(1991)77

Surfactants

Degradation and analysis of oligooxyethylene glycol mono(4-*tert.*-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Surfatron plasma

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Synaptosomes

Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid–liquid partitioning 547(1991)79

System peaks

Evaluation of refractive index artifacts in liquid chromatographic absorbance detection. Extension to non-ideal injection and gradient elution 503(1990)127

Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

T**Table salt**

Determination of iodide in dairy products and table salt by ion chromatography with electrochemical detection 518(1990)268

Tag-along effect

Optimization of the experimental conditions in preparative liquid chromatography with touching bands 517(1990)229

Tailing reducers

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Tandem mass spectrometry

Capillary column gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Packed-column supercritical fluid chromatography–mass spectrometry and supercritical fluid chromatography–tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Tea

Counter-current chromatography of black tea infusions 505(1990)357

Temperature effects

Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1

Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63

Temperature gradients

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Temperature-programmed index

Calculation of programmed temperature gas chromatographic characteristics from isothermal data. III. Predicted retention indices and equivalent temperatures 504(1990)269

Temperature programming

Theory of temperature-programmed gas chromatography. The method of moment analysis 521(1990)71

Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355

Tentacle-type sorbents

High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117

Ternary phase diagrams

Practical approach to high-speed counter-current chromatography 550(1991)677

Ternary system

Forced-flow multi-phase liquid extraction, a separation method based on relative and absolute counter-current distribution. I. Description of the method and basic possibilities 523(1990)43

Theoretical plate

Nature of the eddy dispersion in packed beds 535(1990)189

Theoretical plate, height equivalent

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

Thermal band broadening

Thermal model of capillary electrophoresis and a method for counteracting thermal band broadening 516(1990)191

Thermal degradation

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Thermal desorption

Thermal desorption-gas chromatography of some organophosphates and *S*-mustard after trapping on Tenax 514(1990)273

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Retention index monitoring of compounds of chemical defence interest using thermal desorption gas chromatography 538(1991)249

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

Thermal diffusion

Retention effects in thermal field-flow fractionation 517(1990)377

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Thermal energy analyser

Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141

Thermal field-flow fractionation

Retention effects in thermal field-flow fractionation 517(1990)377

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Thermal zone broadening

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

Thermodynamic parameters

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid

chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Enthalpy of transfer in supercritical fluid chromatography 543(1991)262

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Thermospray mass spectrometry

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Reversed-phase high-performance liquid chromatography-thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Identification of vitamin D₂ by thermospray-interface mass spectrometry 543(1991)241

Thin-film electrodes

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Thiophilic affinity chromatography

Salt-promoted adsorption chromatography 510(1990)47

Tick-borne encephalitis virus

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Time array detector

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

Topographic indices

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Topological indices

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Trace analysis

Development of an automated high-performance liquid chromatographic method for the on-line

pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Simple device for the determination of volatile chlorinated hydrocarbons in water by gas chromatography 509(1990)111

Application of gas chromatography with electron-capture detection to trace analysis of halogenated compounds 509(1990)115

Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C₁, C₂ and C₃ hydrocarbons 541(1991)75

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Trace enrichment

Enrichment and mass spectrometric analysis of trace impurity concentrations in gases 502(1990)265

Capillary electrophoresis of urinary porphyrins with absorbance and fluorescence detection 516(1990)271

Packed column gas chromatography–capillary column gas chromatography–mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Thermal desorption– and sniffing–mass spectrometric monitoring of enriched trace compounds by means of a “live total transfer system” 547(1991)516

Tracer pulse chromatography

Tracer pulse chromatographic method for the determination of nitrogen BET isotherms and surface areas 518(1990)319

Transfer rules

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Transmission electron microscopy

Microscopic characterization of high-performance liquid chromatographic packing materials (Review) 544(1991)319

Transport systems

Gas chromatographic detectors for use in column liquid chromatography (Review) 550(1991)461

Transyl-activated support

Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367

Tresyl-activated support

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Triamine stationary phase

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Tripeptide ligands, transition-state

Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83

Tris–phosphate buffer mobile phase

High-performance liquid chromatographic separation of tachykinins using Tris–phosphate as the buffer component of the mobile phase 533(1990)179

Tritium labelling

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Troubleshooting, LC columns

Systematic approach to the isolation, correction, and prevention of liquid chromatographic column problems 544(1991)3

TRUEX process

Analysis of *n*-octyl(phenyl)-N,N-diisobutylcarbamoymethylphosphine oxide and TRUEX process solvent by gas and liquid chromatography 516(1990)395

Trypanosoma brucei

Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239

Tryptic digests

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

Capillary electrophoretic separation in both H₂O- and ²H₂O-based electrolytes can provide more information on tryptic digests 547(1991)551

Tryptic maps

High-performance displacement chromatography—mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

TSK Phenyl-5PW

Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 511(1990)147

Tung's integral equation

Direct deconvolution of Tung's integral equation using a multi-Gaussian function model for instrumental band broadening in gel-permeation chromatography 522(1990)57

Turbulent dispersion

Turbulent flow in capillary gas chromatography — evaluation of a theoretical concept by Golay 517(1990)143

Turbulent flow

Turbulent flow in capillary gas chromatography — evaluation of a theoretical concept by Golay 517(1990)143

Two-dimensional electrophoresis

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate—polyacrylamide electrophoresis 545(1991)343

Two-dimensional non-linear mapping

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Two-factor selectivity

Computer-assisted optimization of two-factor selectivity in gas chromatography using an advanced simplex method. 513(1990)13

Two-phase polymer systems

Protein separation with aqueous—aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Two-phase solvent systems

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Two-phase systems

Properties of supports for the partition chromatography of proteins 542(1991)55

U**Ultracentrifugation**

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Chromatographic and physical studies of tropomyosin in aqueous—organic media at low pH 543(1991)327

Ultrafiltration

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Purification and characterization of hementin, a fibrinolytic protease from the leech *Haementeria ghilianii* 502(1990)359

Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223

Simple method for determination of the cephalosporin DQ-2556 in biological fluids by high-performance liquid chromatography 515(1990)547

High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215

Ultrasonic nebulizer interface

Ultrasonic nebulizer interface system for coupling liquid chromatography and electrothermal atomic absorption spectrometry 541(1991)243

Ultraviolet difference spectra

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Unfolding kinetics

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

UNIFAC method

Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267

Unified molecular theory of chromatography

Enthalpy of transfer in supercritical fluid chromatography 543(1991)262

Universal calibration concept

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

V**Vacancy gel permeation chromatography**

High-performance vacancy gel permeation chromatography 518(1990)238

Van Deemter equation

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Vapour pressure

Gas chromatographic identification of complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Vegetable oils

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765

Vesicle chromatography

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Vessel geometry

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Vinyl alcohol copolymer, C₁₈-bonded

Peptide behaviour and analysis on a chemically stable C₁₈-bonded vinyl alcohol copolymer column with alkaline and acidic eluents 506(1990)327

Vinylpyridine polymers

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Vinylpyridinium polymers

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Viscosity

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Viscous flow

Two-dimensional viscous flow analysis in a micro flow-cell of an ultraviolet absorption detector for high-performance liquid chromatography 549(1991)101

Volatile components

Characterization of volatile components in apricot purées by gas chromatography-mass spectrometry 518(1990)221

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

W

Wall coating effects

Surface treatment effects in microcolumn liquid chromatography 540(1991)77

Water analysis

Environmental applications of ion chromatography (Review) 504(1990)211

Water, penetration into xerogels

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Water trap

Adsorption/thermal desorption for the determination of volatile organic compounds in water 537(1991)321

Wavelength ratios

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Western blotting

Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Wheat straw

Size-exclusion chromatography of lignocellulosics in wheat straw 536(1991)303

Whey hydrolysate

Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321

Wiener number, three-dimensional

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Window diagrams

Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

Wines

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

Separation and identification of free phenolic acids in wines by high-performance liquid chromatography 537(1991)93

Wire stripping

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

X

Xerogels

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

X-Ray crystallography

High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

X-Ray fluorescence

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

Y**Yadanzi**

Determination of the anticancer drug
bruceoside-A in the Chinese drug Yadanzi
(*Brucea Javanica* Merr.) 543(1991)250

Z**Zirconia-based carbon-polymer composite**

Evaluation of a zirconia-based carbon-polymer
composite reversed-phase chromatographic
support 519(1990)31

Zone dispersion, field-flow fractionation

Characterization of polymers by thermal field-
flow fractionation 517(1990)405

Zone resistance

Isotachopheresis with two leading ions and
migration behaviour in capillary zone
electrophoresis. I. Isotachopheresis with two
leading ions 508(1990)3

Zwitterionic bonded phase

Polar bonded phase with the zwitterionic
sulfobetaine functional group. Comparison to
silica 544(1990)113

COMPOUND INDEX

VOLUMES 501-550

A

Abamectin-8,9-oxide

Normal-phase chromatography and post-column colorimetric detection of abamectin-8,9-oxide 511(1990)353

Abierixin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Abietane-type compounds

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Abscisic acid

Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459

Direct-liquid chromatographic resolution of (*R*)- and (*S*)-abscisic acid using a chiral ovomucoid column 504(1990)445

Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217

Acebutolol

Stereospecific high-performance liquid chromatographic assay of acebutolol in human plasma and urine 526(1990)129

Acenocoumarol

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Acetaminophen

see Paracetamol

Acetate

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Analysis of blood acetate by head-space gas chromatography: comparative studies of reagents for the methyl esterification 529(1990)155

Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Acetic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Acetone

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Acetonitrile

Reversed-phase liquid chromatographic study of excess and absolute sorption isotherms of acetonitrile-water mixtures 550(1991)285

Acetoxyscirpendiol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Acetoxyscirpenols

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Acetylacetonate

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Acetylacetone

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Acetylacetone metal chelates

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

N-Acetylaminodilactones

Liquid chromatography-thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

N-Acetylaspartylglutamate

Quantification of N-acetylaspartylglutamate, an N-terminal blocked dipeptide neurotransmitter candidate, in brain slice superfusates by gas chromatography-mass spectrometry 532(1990)27

Acetyl-L-carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

Acetyl chloride

Degradation and analysis of oligooxyethylene glycol mono(4-*tert*.-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407

Acetylcholine

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Measurement of acetylcholine and choline in cerebrospinal fluid by high-performance liquid chromatography: failure to detect acetylcholine in normal human cerebrospinal fluid 529(1990)408

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514

Acetylcholinesterase

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

N-Acetylcilastatin

High-performance liquid chromatographic determination of cilastatin and its major metabolite N-acetylcilastatin in rat plasma, urine and bile 534(1990)119

Acetyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Acetylcysteine

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

N-Acetyldopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

2'-Acetylerythromycin

Determination of erythromycin base and 2'-acetylerythromycin in human plasma using high-performance liquid chromatography with electrochemical detection 526(1990)475

Acetylhomotaurinate, calcium salt

Determination of calcium acetylhomotaurinate in human plasma and urine by combined gas chromatography–negative-ion chemical ionization mass spectrometry 530(1990)295

N-Acetylneuraminic acid

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

N-Acetyloctopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

Acetyloxycaffeic acids

Synthesis of esters of acetyloxycaffeic acids and their occurrence in poplar bud exudates 543(1991)113

3-Acetylpyridine

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Acetylsalicylic acid

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

N-Acetylserotonin

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric–electrochemical detection 528(1990)111

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

N⁸-Acetylspermidine

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

N₄-Acetylsulphadimethoxine

High-performance liquid chromatography of sulphadimethoxine and its N₁-glucuronide, N₄-acetyl and N₄-acetyl-N₁-glucuronide metabolites in human plasma and urine 526(1990)119

N₄-Acetylsulphadimethoxine-N₁-glucuronide

High-performance liquid chromatography of sulphadimethoxine and its N₁-glucuronide, N₄-acetyl and N₄-acetyl-N₁-glucuronide metabolites in human plasma and urine 526(1990)119

N-Acetylsulphamethazine

Identification and determination of sulphamethazine and N⁴-acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371

Acetylsulphamethoxazole

Comparison of colorimetric and high-performance liquid chromatographic determination of sulphamethoxazole and acetylsulphamethoxazole 527(1990)174

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N⁴-acetylsulfamethoxazole with solid-phase extraction 528(1990)235

N-Acetyltyramine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 532(1990)13

 α_1 -Acid glycoprotein

Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

High-performance anion-exchange chromatographic study of desialylated human α_1 -acid glycoprotein variants. Development of a fractionation method for the protein slow variants 539(1991)405

Acidic drugs

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Acid progabide

Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography 527(1990)214

Acid red

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Acids, dibasic

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Acids, monobasic

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Acrylamide

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Evaluation of chemical structural heterogeneity of cationic acrylamide copolymers by high-performance liquid chromatography 536(1991)203

Acrylate–styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Acrylonitrile

Isotope dilution gas chromatography–mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Activated carbon

Improvement of activated carbon for air sampling 503(1990)33

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Acyl coenzyme A

Combined high-performance liquid chromatographic–continuous-flow fast atom bombardment mass spectrometric analysis of acylcoenzyme A compounds 527(1990)289

Acyl coenzyme A, long-chain

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography–negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Adamantane

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

ADD17014

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Adenine

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Adenine nucleotides

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adenosine

Direct injection of blood samples into a high-performance liquid chromatographic adenine analyser to measure adenine, adenosine and the adenine nucleotides with fluorescence detection 515(1990)363

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Determination of adenosine and cyclic adenosine monophosphate in urine using solid-phase extraction and high-performance liquid chromatography with fluorimetric detection 529(1990)437

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Adenosine deaminase

Preparative purification of adenosine deaminase from human erythrocytes by affinity chromatography 532(1990)75

Adenosine 5'-monophosphate

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adenosine 5'-triphosphate

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Adipimide

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Adrenaline

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

 β -Adrenergic blocking agents

see β -Blockers

Adrenocorticotrophin

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379

Aerosol OT

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Aflatoxins

Comparison of the EASI-EXTRACT immunoaffinity concentration procedure with the AOAC CB method for the extraction and quantitation of aflatoxin B₁ in raw ground unskinned peanuts 511(1990)379

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220

Agarose

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Agglutinin

Affinity-repulsion chromatography 510(1990)49

Aglycones

Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Agmatine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

AJ-2615

Determination of a novel calcium entry blocker, AJ-2615, in plasma using solid-phase extraction and high-performance liquid chromatography with electrochemical detection 532(1990)175

Ajmalicine

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Alanine

Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Use of a focusing cylindrical lens for increasing sensitivity in the optical detector of a capillary flow-through cell 515(1990)357

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

Albumin

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Predicting the performance of gel-filtration chromatography of proteins 512(1990)77

Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165

Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

High-performance liquid chromatography of serum albumins on an N-methylpyridinium polymer-based column 525(1990)176

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146

High-performance liquid chromatographic determination of the binding of ceftriaxone to human serum albumin solution and albumin from diluted human serum 528(1990)415

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Simple equilibrium dialysis-high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxypsoralen bound to human albumin 539(1991)443

Isolation and purification of cat albumin from cat serum by copper ion affinity chromatography: further analysis of its primary structure 539(1991)475

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81

Albuterol

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Alcohol dehydrogenase

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379

Alcohol ethoxylates

Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199

Alcohols

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154

Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Optical resolution of racemic compounds on chiral stationary phases of modified cellulose 515(1990)85

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Sorption of primary *n*-alkanols on Tenax 518(1990)234

High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides 519(1990)263

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128

Rapid quantitative analysis of headspace components of green olive brine 521(1990)153

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Application of the UNIFAC method for assessment of retention in reversed-phase liquid chromatography 543(1991)267

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alcohols, ethoxylated

Static coating of 5 to 50 μ m I.D. capillary columns for open tubular column chromatography 517(1990)503

Alcuronium

Determination of alcuronium in plasma and urine by high-performance liquid chromatography 529(1990)449

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Aldehydes

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

Aldicarb

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Aldicarb sulphone

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Aldicarb sulphoxide

Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526

Alditols

High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227

Aldonitriles

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonitriles 519(1990)228

Aldoses

Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299

Alfalfa saponins

High-performance liquid chromatography of alfalfa root saponins 519(1990)109

Alfuzosin

Direct high-performance liquid chromatographic determination of the enantiomers of alfuzosin in plasma on a second-generation α_1 -acid glycoprotein chiral stationary phase 506(1990)601

Alkadienes

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

Alkali metals

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Alkaline earth metals

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Temperature programming in macrocycle-based ion chromatography 546(1991)139

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Alkaline phosphatase

Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171

Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103

Alkaloids

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published

maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Chromatographic evaluation of boldine and associated alkaloids in Boldo 511(1990)373

Stepwise gradient in thin-layer chromatography of *Chelidonium* alkaloids 518(1990)273

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Reversed-phase high-performance liquid chromatographic separation of tertiary and quaternary alkaloids from *Chelidonium majus* L. 543(1991)123

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Alkanes

Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1

Even-odd alternation effect in the regularities of chromatographic retention 509(1990)15

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Application of topographic indices to chromatographic data: calculation of the retention indices of alkanes 540(1991)430

Evaluation of the effect of the cyanopropyl radical on the interaction of the methylene group with silicone stationary phases 547(1991)269

Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alkanesulphonates

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Alkanoic acids

see Carboxylic acids

Alkanolamines

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Alkan-2-ones

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Alkenes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

High-resolution gas chromatography with liquid crystal glass capillaries. XI. Separation of isomeric C₈ and C₉ hydrocarbons 509(1990)93

High-resolution gas chromatography with liquid crystal glass capillaries. XII. Separation of isomeric C₁₇-C₁₈ *n*-alkenes 520(1990)75

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Alkenoic acids

Gas chromatographic analysis and gas chromatographic-mass spectrometric

identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Alkylamines

Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

α -Alkyl- α -amino acids

Gas chromatographic separation of diastereomeric esters of α -alkyl- α -amino acids on dimethylpolysiloxane 521(1990)109

N-Alkylanilines

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkyl aryl ethers

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkyl aryl ketones

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Alkylbenzenes

Comparison of stationary phases for packed-column supercritical fluid chromatography 506(1990)563

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Enhanced possibilities for identification using series-coupled capillary gas chromatographic columns. II. Retention indices as an identification tool in selectivity tuning 517(1990)77

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

Improved method for prediction of gas chromatographic retention indices of C₉-C₁₂ alkylbenzenes 549(1991)325

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Alkylbenzenesulphonates

Quantitative extraction of linear alkylbenzenesulfonates using supercritical carbon dioxide and a simple device for adding modifiers 541(1991)185

Alkyl benzoates

Comparison of the selectivity of di(methacryloyloxymethyl)naphthalene-divinylbenzene copolymers in reversed-phase high-performance liquid chromatography 549(1991)77

***n*-Alkyl bis(trifluoromethyl)phosphine sulphides**

Use of M-series retention index standards in the identification of trichothecenes by electron impact mass spectrometry 513(1990)31

Alkyl borate esters

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Alkyl boronate esters

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Alkylglyceryl ethers, unsubstituted

Rapid determination of unsubstituted alkylglyceryl ethers by gas chromatography-mass spectrometry 530(1990)94

O-Alkyl glycosides

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Alkyl ketones

Computer simulation of isocratic retentions of alkylketones using gradient data 550(1991)77

Alkyl nitrates

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99

Alkylphenols

Displacement chromatography on packed capillary columns 502(1990)11

Structure-retention correlations of isomeric alkylphenols in gas-liquid chromatography 509(1990)3

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263

Alkylphenols, ethoxylated

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Alkylphenols, sulphurized

Separation and identification of sulfurized alkylphenols in oil by high-performance liquid chromatography with evaporative light scattering and mass spectrometric detection 549(1991)247

Alkylphenones

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

1-Alkyl-2',6'-pipercolxyliidides

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Alkylquinazolones

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. II. Alkyl substitution of quinazolone derivatives 537(1991)371

Alkylsulphates

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Alkylsulphonates

Separation and detection of non-chromophoric, anionic surfactants 546(1991)395

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

n-Alkynes

Relationship between the structure and retention of *n*-alkenes and *n*-alkynes on silicone phases 520(1990)137

Allergens

Ion-exchange high-performance liquid chromatographic isolation of the major allergen of *Parietaria* pollen extract 512(1990)115

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

Purification of *Phleum pratense* pollen extract by immunoaffinity chromatography and high-performance ion-exchange chromatography 548(1991)229

Allethrolone

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Allopurinol

Simultaneous determination of allopurinol and oxypurinol by liquid chromatography using immobilized xanthine oxidase with electrochemical detection 530(1990)65

Aloenin

Gas chromatographic and mass spectral determination of aloenin in skin-care cosmetics 509(1990)377

Alprazolam

Gas chromatographic analysis of alprazolam in plasma: replicability, stability and specificity 534(1990)202

Alprenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Alprenolol oxime

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Alterporriol D

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Alterporriol E

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Altersolanol A

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Altertoxins

Selective determination of altertoxins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376

Althiazide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Alumina

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Alumina, octadecyl-bonded

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Aluminium

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Amantadine

Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319

Amaranth

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Ambroxol

Determination of ambroxol in biological material by gas chromatography with electron-capture detection 530(1990)141

Amifloxacin

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amifloxacin, piperazinyl-N-desmethyl metabolite

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amifloxacin, piperazinyl-N-oxide metabolite

Determination of amifloxacin and two of its principal metabolites in plasma and urine by high-performance liquid chromatography using automated column switching 530(1990)407

Amiloride

High-performance liquid chromatographic determination of amiloride and its analogues in rat plasma 529(1990)201

Amineptine

Determination of amineptine and its main metabolite in plasma by high-performance liquid chromatography after solid-phase extraction 532(1990)351

Amines

see also Catecholamines

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative gas chromatographic phases 502(1990)154

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Determination of primary and secondary aliphatic amines in the environment as sulphonamide derivatives by gas chromatography-mass spectrometry 503(1990)369

High-performance liquid chromatography separation media based on functional polymers containing phenolic hydroxyls 504(1990)97

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Determination of aliphatic amines by gas and high-performance liquid chromatography 507(1990)241

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Chromatographic determination of amines in biological fluids with special reference to the biological monitoring of isocyanates and amines. IV. Determination of 1,6-hexamethylenediamine in human urine using capillary gas chromatography and selective ion monitoring 516(1990)405

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

Analysis of amine metabolites by high-performance liquid chromatography on silica gel with a non-aqueous ionic eluent 532(1990)405

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Determination of primary and secondary amines in foodstuffs using gas chromatography and chemiluminescence detection with a modified thermal energy analyser 539(1991)141

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447

Experimental design for the optimization of the separation of aliphatic amines by ion chromatography 549(1991)159

Amino acid amides

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167

Amino acid esters

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Amino acids

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Direct and reverse flow-through heterogeneous scintillation counting of radiolabelled amino acids

- using post-column solvent segmentation 508(1990)301
- Increasing the purity of polyuronic sorbents 509(1990)239
- Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41
- Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17
- Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115
- Characterization of apolipoproteins from chicken plasma 512(1990)203
- High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249
- Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255
- High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291
- Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370
- Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253
- Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475
- Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241
- Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287
- Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313
- Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323
- Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375
- Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69
- Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307
- Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29
- Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134
- Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163
- Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated S-flunoxapofen as a chiral derivatizing agent 528(1990)55
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- Localization of amino acids on thin-layer chromatograms with acetylacetone-formaldehyde reagent 537(1991)494

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Efficiency in chiral high-performance ligand-exchange chromatography. Influence of the complexation process, flow-rate and capacity factor 542(1991)221

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Amino acids, 1-aminoadamantane derivatives

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

Amino acids, N,N-diethyl-2,4-dinitro-5-fluoroaniline derivatives

Serum amino acid analysis with pre-column derivatization: comparison of the *o*-phthaldialdehyde and N,N-diethyl-2,4-dinitro-5-fluoroaniline methods 534(1990)23

Amino acids, DNB derivatives

Effect of the configuration of the substituents of derivatized β -cyclodextrin bonded phases on enantioselectivity in normal-phase liquid chromatography 540(1991)113

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31

Amino acids, DNP derivatives

Improved high-speed counter-current chromatograph with three multilayer coils

connected in series. IV. Evaluation of preparative capability with large multilayer coils 538(1991)81

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Amino acids, Dns derivatives

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Isocratic hydrophobic interaction chromatography of dansyl amino acids. Correlation of hydrophobicity and retention parameters 511(1990)123

Porous glass sheets for use in thin-layer chromatography 515(1990)205

The effect of $^2\text{H}_2\text{O}$ and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404

Amino acids, fluorescein isothiocyanate derivatives

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Amino acids, FMOc derivatives

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Amino acid analysis using derivatisation with 9-fluorenylmethyl chloroformate and reversed-phase high-performance liquid chromatography 540(1991)177

Amino acids, NDA derivatives

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs

with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

Amino acids, 4-nitrophenylisothiocyanate derivatives

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Amino acids, OPA derivatives

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Separation of free amino acids by reversed-phase ion-pair chromatography with column switching and isocratic elution 507(1990)95

Simultaneous high-performance liquid chromatographic determination of amino acids in a dried blood spot as a neonatal screening test 511(1990)131

Applications of high-performance liquid chromatography in bacteriology. I.

Determination of metabolites (Review) 515(1990)415

Serum amino acid analysis with pre-column derivatization: comparison of the *o*-phthalaldialdehyde and *N,N*-diethyl-2,4-dinitro-5-fluoroaniline methods 534(1990)23

Isotachopheresis as an on-line concentration pretreatment technique in capillary electrophoresis 538(1991)393

Amino acids, N-pentafluoropropionyl alkyl esters

Gas chromatographic separation of stereoisomeric esters of α -amino acids and α -alkyl- α -amino acids on chiral stationary phases 542(1991)161

Amino acids, phenylthiocarbamyl derivatives

Characterization of a reversed-phase high-performance liquid chromatographic system for the determination of blood amino acids 507(1990)85

Amino acids, phisyl derivatives

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Amino acids, PTC derivatives

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Amino acids analysis of physiological fluids by high-performance liquid chromatography with phenylisothiocyanate derivatization and comparison with ion-exchange chromatography 528(1990)9

Measurement of plasma and urine amino acids by high-performance liquid chromatography with electrochemical detection using phenylisothiocyanate derivatization 528(1990)293

Time-saving method for the reversed-phase high-performance liquid chromatography of phenylthiocarbamylamino acid derivatives of free amino acids in plasma 529(1990)258

Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Amino acids, PTH derivatives

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Amino acids, sulphur-containing

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Amino acids, TFA isobutyl esters

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Aminoacyl-tRNA synthetases

Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277

δ -L- α -Amino dipyl-L-cysteinyL-D-valine

Analysis of δ -L- α -amino dipyl-L-cysteinyL-D-valine by ion chromatography and pulsed amperometric detection 509(1990)347

Amino alcohols

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Chromatographic resolution of 1,2-amino alcohols on a chiral stationary phase containing N,N'-(3,5-dinitrobenzoyl)-*trans*-1,2-diaminocyclohexane. Theoretical and practical aspects 539(1991)25

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Enantiomeric separation of amines using N-benzoxycarbonyl-glycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Aminobenzene

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Aminobenzoic acid

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Impact of experimental parameters on the resolution of positional isomers of aminobenzoic acid in capillary zone electrophoresis 542(1991)173

2-Aminobutan-1-ol

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

 γ -Aminobutyric acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Determination of γ -aminobutyric acid in human cerebrospinal fluid by isocratic high-performance liquid chromatography 529(1990)417

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

Aminocarbolines

Simultaneous determination of amino- α -carbolines and amino- γ -carbolines in cigarette smoke condensate by high-performance liquid chromatography 529(1990)125

4-Amino-3-(4-chlorophenyl)butyric acid

Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502

Aminocynoacrylates

Separation and interconversion of 3-amino-2-cynoacrylates by high-performance liquid chromatography 507(1990)409

(2S,3S)-2-Amino-3-(3,4-dihydroxyphenylalanine)-4-pentynoic acid

Chromatographic separation of β -substituted 3-(3,4-dihydroxyphenyl)alanine derivatives 523(1990)300

2-Aminoethanethiol

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

S-(2-Aminoethyl)-L-cysteine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

2-Aminofluorene

Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447

Aminoglycosides

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244

2-Aminoheptane

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

4-Amino-1-hydroxybutane-1,1-bisphosphonic acid

Determination of 4-amino-1-hydroxybutane-1,1-bisphosphonic acid in urine by automated pre-column derivatization with 2,3-naphthalene dicarboxyaldehyde and high-performance liquid chromatography with fluorescence detection 534(1990)139

3-Amino-1-hydroxypropylidene-1,1-bisphosphonate

Determination of disodium 3-amino-1-hydroxypropylidene-1,1-bisphosphonate pentahydrate 545(1991)421

2-Amino-9-(4-imidazolyl)-7-azanonanoic acid

o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527

 β -Aminoisobutyric acid

Rapid determination of β -aminoisobutyric acid by reversed-phase high-performance liquid chromatography 528(1990)35

 δ -Aminolevulinic acid

Micro assay for urinary δ -aminolevulinic acid and porphobilinogen by high-performance liquid chromatography with pre-column derivatization 527(1990)134

2-Amino-4-methoxy-6-methyl-1,3,5-triazine

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

(Aminomethyl)phosphonic acid

High-performance liquid chromatographic determination of the herbicide glyphosate and its metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411

2-Amino-2-methylpropanol

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including

2-amino-2-methylpropanol by pre-column derivatization to sulphonamides 547(1991)447

8-Amino-1-naphthol-3,6-disulphonic acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

6-Aminonicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Aminopeptidase M

Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279

Aminophenols

Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

2-Amino- ω -phosphonoalkanoic acid

Direct separation of amino acid enantiomers using a chiral crown ether stationary phase. Application to 2-amino- ω -phosphonoalkanoic acids 519(1990)69

Aminopyridine

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Aminosaccharides

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

5-Aminosalicyclic acid

Investigation of the stability of 5-aminosalicylic acid in tablets and suppositories by high-performance liquid chromatography 509(1990)195

Determination of 5-aminosalicylic acid and related compounds in raw materials and

pharmaceutical dosage forms by high-performance liquid chromatography 540(1991)416

Amino sugars

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Identification of monosaccharides by high-performance liquid chromatography using methanolysis and a light-scattering detector 514(1990)70

Amitriptyline

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Ammonium acetate

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Amoxicillin

Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417

AMP

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

cAMP

see Cyclic adenosine monophosphate

Amphetamines

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines

using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Separation of amphetamines by supercritical fluid chromatography 515(1990)385

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Assay of the optical isomers of methamphetamine and amphetamine in rat urine using high-performance liquid chromatography with chiral cellulose-based columns 525(1990)203

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Ampicillin

High-performance liquid chromatographic assay of ampicillin and its prodrug lenampicillin 507(1990)235

Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87

Amsulosin

Sensitive method for the determination of amsulosin in human plasma using high-performance liquid chromatography with fluorescence detection 533(1990)291

α -Amylase

Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227

Amylase-pullulanase

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Amyloid A

Purification of human serum amyloid A by anion-exchange fast protein liquid chromatography 526(1990)203

Amylopectin

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Amylose

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Anaesthetics

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Analgesics, non-steroidal anti-inflammatory

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Ancymidol

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Androgen-binding protein

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

Androstane

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Androstenedione

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Angiotensinase A

Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279

Angiotensins

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Anhydrobenzoic acid

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Anilines

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbopack cartridge followed by liquid chromatography 541(1991)365

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Anionic detergents

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Anions

Influence of dissociation equilibria on the elution behaviour of the sample anion in anion chromatography 508(1990)51

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Computer optimization in ion chromatography. II. A systematic evaluation of linear retention models for anions 546(1991)37

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Environmental applications of ion chromatography in China 546(1991)317

Use of ion chromatography in agricultural research (Review) 546(1991)387

Low-capacity latex-coated resins for anion chromatography 547(1991)11

Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

Anions, inorganic

see Inorganic anions

Aniracetam

Determination of aniracetam and its main metabolite, N-anisoyl-GABA, in human plasma by high-performance liquid chromatography 530(1990)397

Anisodine

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Anisole

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

N-Anisoyl-GABA

Determination of aniracetam and its main metabolite, N-anisoyl-GABA, in human plasma by high-performance liquid chromatography 530(1990)397

Anoxes

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Anthocyanidins

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Anthocyanins

Analysis of anthocyanins in red wines by high-performance liquid chromatography using butylamines in the mobile phase 504(1990)207

High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Anthracene

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Anthracene-2,3-dialdehyde

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Anthracyclines

Sensitive method for the determination of daunorubicin and all its known metabolites in plasma and heart by high-performance liquid chromatography with fluorescence detection 529(1990)359

Anthranilate synthase

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Anthraquinone dyes

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

9-Anthryldiazomethane

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Antibacterial agents

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Antibiotics

Assay of methylthiolinosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Impurity profiling of clarithromycin using high-performance liquid chromatography with ultraviolet detection 502(1990)351

Rapid identification and determination of herbicidin A and B by high-performance liquid chromatography 502(1990)437

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Determination of amoxicillin in plasma by high-performance liquid chromatography with fluorescence detection after on-line oxidation 506(1990)417

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Determination of penicillin G in milk by high-performance liquid chromatography with automated liquid chromatographic cleanup 507(1990)177

High-performance liquid chromatographic assay of ampicillin and its prodrug lenampicillin 507(1990)235

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

- High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179
- High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19
- Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199
- Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244
- High-performance liquid chromatography of antibiotics 531(1990)509
- High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211
- High-performance liquid chromatographic determination of bleomycins 536(1991)343
- Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203
- Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257
- High-performance liquid chromatographic determination of mycophenolic acid in fermentation broth 540(1991)383
- Estimation and identification of non-polar compounds in clarithromycin bulk drug by high-performance liquid chromatography 540(1991)422
- High-performance liquid chromatographic determination of the antibiotic corticalcerone 542(1991)200
- Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515
- Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411
- High-performance liquid chromatographic method for the determination of cloxacillin in commercial preparations and for stability studies 549(1991)410
- Fully automatic high-performance liquid chromatographic optimization 550(1991)27
- Antibodies**
see also Monoclonal antibodies
- Site-directed immobilization of proteins 510(1990)293
- Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311
- Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339
- Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337
- Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365
- Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387
- Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267
- Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17
- Purification of heparin cofactor II from human plasma 539(1991)493
- Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41
- Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of

Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165

A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Anticancer drugs

Chromatographic analysis of anticancer drugs 531(1990)235

Antidepressants, tricyclic

Antidepressants in serum determined by isolation with two on-line sorbent cartridges and liquid chromatography 530(1990)359

Antiepileptic drugs

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Analysis of antiepileptic drugs 531(1990)421

Antigens

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Non-radioactive detection of MHC class II-peptide antigen complexes in the sub-picomole range by high-performance size-exclusion chromatography with fluorescence detection 548(1991)343

Anti- α -human atrial natriuretic peptide

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Anti-idiotypes

Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387

Antimycin A

Liquid chromatography-thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

Antioxidants

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Antiparasitic agents

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Antipyrene

Rapid and simple high-performance liquid chromatographic determination of saliva antipyrene for routine antipyrene test 526(1990)296

Antisera

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Antithrombin III

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

α_1 -Antitrypsin

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Anti-tumour antibodies

Isolation of anti-idiotypic antibodies by immunoaffinity chromatography on Affinichrom beads 512(1990)387

Anti-ulcer agents

Bioanalysis of anti-ulcer agents 531(1990)407

Antiviral agents

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

Chromatographic methods for the bioanalysis of antiviral agents 531(1990)295

High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289

Apigenin

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Apigenin-7-O-glucoside

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Apolipoproteins

Separation of human apolipoproteins A-IV, A-I and E by reversed-phase high-performance liquid chromatography on a TSK Phenyl-5PW column 527(1990)147

Characterization of apolipoproteins from chicken plasma 512(1990)203

Purification of human serum amyloid A by anion-exchange fast protein liquid chromatography 526(1990)203

Simple and rapid method for the purification of human apolipoprotein C II by reversed-phase high-performance liquid chromatography 527(1990)140

Large-scale isolation and purification of human apolipoproteins A-I and A-II 537(1991)464

Application of reversed-phase-high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386

Apo-retinoids

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Aprotinin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on

Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175

High-performance liquid chromatographic method for the determination of aprotinin in body fluids 525(1990)426

 α -L-Arabinofuranosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoarium* 521(1990)301

L-Arabinose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Arachidonic acid

High-performance liquid chromatographic quantitation of cyclooxygenase and lipoxygenase metabolites of arachidonic acid from rat polymorphonuclear leukocytes 532(1990)135

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Arachidonyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Arbutin

Determination of arbutin in *uva-ursi* folium (bearberry leaves) by capillary zone electrophoresis 514(1990)383

1,4-Arenequinones

Electrochemical biosensors on thin-film metals and conducting polymers 510(1990)355

Arginine

High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Argininosuccinic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Armostat 400

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Aromatic acids

see also Carboxylic acids and Organic acids

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227

Aromatic amines

see also Amines

Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Aromatic compounds, disubstituted

Retention prediction of analytes in reversed-phase high-performance liquid chromatography based on molecular structure. VI. Disubstituted aromatic compounds 550(1991)335

Aromatic diamines

2-Trichloromethylbenzimidazole, a selective chromogenic reagent for the detection of *o*-phenylenediamine on thin-layer plates 541(1991)480

Aromatic hydrocarbons

see also Hydrocarbons

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformate 509(1990)33

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Polymer-inorganic selective adsorbents for gas chromatography produced by graft polymerization 520(1990)21

Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609

Aroylacrylic acids

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Arsenate

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Arsenite

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Artemisinin

Rapid method for the detection and determination of artemisinin by gas chromatography 538(1991)452

2-Aryloxypropionic acid methyl esters

Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349

Arylsulphonylalkanoic acids

Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkanecarboxylic acids by thin-layer chromatography 543(1991)195

Arylsulphonylcycloalkanecarboxylic acids

Determination of the lipophilicity of arylsulphonylalkanoic and arylsulphonylcycloalkanecarboxylic acids by thin-layer chromatography 543(1991)195

Ascorbic acid

see Vitamin C

Ascorbic acid-2-phosphate

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

Aspartame

Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85

Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392

Aspartate aminotransferase

Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383

Aspartic acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Aspartyl-phenylalanine

Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Aspoxicillin

Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Asulam

Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271

Atenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Atmer 129

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

ATPase

Purification of the subunits of pea mitochondrial F₁-ATPase by high-performance liquid chromatography 521(1990)43

ATPase inhibitor, H⁺/K⁺

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67

High-performance liquid chromatographic determination of the H⁺/K⁺ ATPase inhibitor (BY 1023/SK&F 96 022) and its sulphone metabolite in serum or plasma by direct injection and fully automated pre-column sample clean-up 529(1990)389

Atracurium

Simplified method for the determination of atracurium and laudanosine in pig plasma by

high-performance liquid chromatography and fluorimetric detection 526(1990)223

Determination of atracurium and laudanosine in human plasma by high-performance liquid chromatography 529(1990)319

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Atrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

High-performance liquid chromatographic determination of atrazine in human plasma 526(1990)569

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Atrial natriuretic peptide

Immobilization of α -human atrial natriuretic peptide on insoluble supports and affinity purification of specific antibodies from a polyclonal goat anti- α -human atrial natriuretic peptide serum 510(1990)339

Atropine

Chiral separations of atropine and homatropine on an α_1 -acid glycoprotein-bonded stationary phase 506(1990)579

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Auxins

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Avermectins

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Avidin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Azadirachtin

Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389

Analysis of azadirachtin by supercritical-fluid chromatography 519(1990)137

Azalactones

Immobilization of Protein A at high density on azalactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

3'-Azido-3'-deoxythymidine

Analysis of 3'-azido-3'-deoxythymidine levels in tissues and milk by isocratic high-performance liquid chromatography 528(1990)371

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Azidomorphine

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Aziridine

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonvulsant agents 533(1990)248

Azorubine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

B

Bacitracin

Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203

Foam counter-current chromatography of bacitracin. II. Continuous removal and concentration of hydrophobic components with nitrogen gas and distilled water free of surfactants or other additives 538(1991)213

Baclofen

Preparative liquid chromatographic separation of isomers of 4-amino-3-(4-chlorophenyl)butyric acid 542(1991)502

Bacteroides forsythus

Cellular fatty acids of *Bacteroides forsythus* 533(1990)141

Bamifylline

Micro-scale liquid chromatographic method for the determination of bamifylline and its major metabolite in human plasma 535(1990)305

Bamipine

Separation and simultaneous determination of bamipine and salbutamol in dosage forms by high-performance liquid chromatography 502(1990)189

Barban

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Barbiturates

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Identification and differentiation of barbiturates, other sedative-hypnotics and their metabolites in urine integrated in a general screening procedure using computerized gas chromatography-mass spectrometry 530(1990)307

Analysis of barbiturates in human serum and urine by high-performance capillary electrophoresis-micellar electrokinetic capillary chromatography with on-column multi-wavelength detection 545(1991)445

Barium

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

Basic compounds

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Basic drugs

Validation of an expert system for the selection of initial high-performance liquid chromatographic conditions for the analysis of basic drugs 506(1990)211

Retention reproducibility of basic drugs in high-performance liquid chromatography on a silica column with a methanol-high-pH buffer eluent. Effect of operating conditions on separations using an organic buffer 514(1990)97

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Belfosdil

Determination of belfosdil, a new calcium channel blocker, in human plasma by capillary gas chromatography with nitrogen-phosphorus detection 527(1990)343

Bendamustine

Determination of a cytostatic agent, bendamustine, in plasma using capillary gas chromatography with nitrogen-selective detection 525(1990)459

Benidipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid

chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Benomyl

Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242

Bentazone

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Determination of phenoxyacid herbicides in water 547(1991)478

Benzalazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Benzaldehyde

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Benzalkonium chloride

Reversed-phase high-performance liquid chromatography applied to the direct analysis of untreated heterophasic systems 507(1990)403

Benzamides

Regulation of peak compression effects for substituted benzamides in reversed-phase liquid chromatography 506(1990)253

Benzene derivatives

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

Chemically modified polymeric resins for high-performance liquid chromatography 522(1990)95

Benzenes

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157

Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon 513(1990)1

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Benzenes, monosubstituted

Measurement of lipophilicity indices by reversed-phase high-performance liquid chromatography: comparison of two stationary phases and various eluents 541(1991)221

Benzenesulphonate

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Benzenesulphonic acid

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Benzoate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Benzocaine

Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515

Separation and simultaneous high-performance liquid chromatographic determination of benzocaine and benzyl benzoate in a pharmaceutical preparation 549(1991)217

1,4-Benzodiazepine-2-ones

High-performance liquid chromatographic resolution of racemic 1,4-benzodiazepin-2-ones by means of a β -cyclodextrin silica bonded chiral stationary phase 506(1990)617

Benzodiazepines

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Retention characteristics of CN, NH₂ and diol precoated high-performance thin-layer chromatographic plates in the adsorption and reversed-phase separation of some benzodiazepine derivatives 514(1990)45

Linear solvation energy relationships in the study of the solvatochromic properties and liquid chromatographic retention behaviour of benzodiazepines 522(1990)37

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

Chromatography of benzodiazepines 531(1990)459

Simultaneous screening and quantitative analysis of benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection 533(1990)97

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Benzodioxanyl

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Benzoic acids

High-performance liquid chromatographic computer simulation based on a restricted multi-

parameter approach. I. Theory and verification 535(1990)55

High-performance liquid chromatographic computer simulation based on a restricted multi-parameter approach. II. Applications 535(1990)75

High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273

Molecular interactions in liquid chromatography 537(1991)33

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Benzophenanthridine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Benzophenones

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Benzo[a]pyrene

Retention of benzo[a]pyrene on cyclodextrin-bonded phases 516(1990)355

Quantitative comparisons of reaction products using liquid chromatography with dual-label radioactivity measurements 522(1990)117

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Benzo[a]pyrene diol epoxides

Resolution of enantiomeric triols, triol-hydroxyethylthioethers, and methoxy-triols derived from three benzo[a]pyrene diol-epoxides

by chiral stationary phase high-performance liquid chromatography 535(1990)239

Benzo[e]pyrene

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Benzosuberone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Benzothiazepin analogues

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Benzothiazole

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

1,4-Benzoxazin-3-ones

Separation and quantification of 1,4-benzoxazin-3-ones and benzoxazolin-2-ones in maize root extract by high-performance liquid chromatography 543(1991)389

Benzoxazolin-2-ones

Separation and quantification of 1,4-benzoxazin-3-ones and benzoxazolin-2-ones in maize root extract by high-performance liquid chromatography 543(1991)389

N-Benzoylalanine

Measurement of the heats of adsorption of chiral isomers on an enantioselective stationary phase 522(1990)23

Benzoylcegonine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylcegonine and benzoynoregonine by high-performance liquid chromatography 525(1990)113

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95

Benzoylnoregonine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylcegonine and benzoynoregonine by high-performance liquid chromatography 525(1990)113

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95

Benzphetamine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Benzydamine

Determination of benzydamine and its N-oxide in biological fluids by high-performance liquid chromatography 529(1990)113

Benzydamine N-oxide

Determination of benzydamine and its N-oxide in biological fluids by high-performance liquid chromatography 529(1990)113

Benzyl acetate

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Benzyl alcohol

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Benzylamine

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Benzyl benzoate

Separation and simultaneous high-performance liquid chromatographic determination of benzocaine and benzyl benzoate in a pharmaceutical preparation 549(1991)217

Benzyl-n-butyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Benzyl chloride

Improvement of activated carbon for air sampling 503(1990)33

Benzyl methyl ketone

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

cis-N-(1-Benzyl-2-methylpyrrolidin-3-yl)-5-chloro-2-methoxy-4-methylaminobenzamide

High-performance liquid chromatographic determination of *cis*-N-(1-benzyl-2-methylpyrrolidin-3-yl)-5-chloro-2-methoxy-4-methylaminobenzamide in rat blood and brain using electrochemical detection 526(1990)282

Benzyltrimethylammonium iodide

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

Berberine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Bergamot oil

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Beryllium

Determination of trace elements by ion chromatography. I. Beryllium 538(1991)365

Betaxolol

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

Betaxolol, acid metabolite

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

Bianthraquinone pigments

High-performance liquid chromatographic determination of alterporriol D and E in fermentation of *Alternaria porri* (Ellis) Ciferri 503(1990)282

Bicarbonate

Determination of borate at trace levels in environmental samples by ion-exclusion chromatography 508(1990)265

Bile acids

High-performance liquid chromatography with a 3α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Simultaneous determination of keto and non-keto bile acids in human serum by gas chromatography with selected ion monitoring 525(1990)25

Capillary gas chromatographic behavior of stereoisomeric bile acids with a *vicinal* glycol structure by their "mixed" alkylboronate derivatives 537(1991)345

High-performance liquid chromatographic separation of bile acids and bile alcohols diastereoisomeric at C-25 542(1991)184

Bile alcohols

High-performance liquid chromatographic separation of bile acids and bile alcohols diastereoisomeric at C-25 542(1991)184

Bile pigments

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Bile salts

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Bilirubin conjugates

High-performance liquid chromatographic separation of bilirubin conjugates: the effects of change in molarity and pH 528(1990)123

Bilobalide

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Biochanin A

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Biogenic amines

see also Catecholamines and Indoleamines

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by column chromatography with electrochemical detection 518(1990)258

Biopolymers

Aligned fiber columns for size-exclusion chromatography 506(1990)303

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Multivalent ion-exchange model of biopolymer chromatography for mass overload conditions 548(1991)61

Biotin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365

Biotin-containing carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Biphenol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Bis-(2-aminoethyl) ether

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Bis-(2-chloroethyl)amine

Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501

1-[4-[3-[4-[Bis-(4-fluorophenyl)hydroxymethyl]-1-piperidinyl]propoxy]-3-methoxyphenyl]ethanone

Determination of a new anti-allergenic agent, 1-[4-[3-[4-[bis-(4-fluorophenyl)hydroxymethyl]-1-piperidinyl]propoxy]-3-methoxyphenyl]-ethanone, and its active acidic metabolite in plasma by high-performance liquid chromatography 527(1990)397

Biuret complexes

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Bleomycins

Separation of bleomycins and their deamido metabolites by high-performance cation-exchange chromatography 514(1990)86

High-performance liquid chromatographic determination of bleomycins 536(1991)343

Block copolymers

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Separation of copolymers according to composition with special emphasis on the effect of block structure 550(1991)629

 β -Blockers

Chromatography of β -adrenergic blocking agents 531(1990)131

Reversed-phase high-performance liquid chromatography of ketoxime analogues of β -adrenergic blockers 541(1991)469

Boldine

Chromatographic evaluation of boldine and associated alkaloids in Boldo 511(1990)373

Bombesin

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Bombyxin

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

***Boophilus microplus* antigen**

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

Borate

Determination of borate at trace levels in environmental samples by ion-exclusion chromatography 508(1990)265

Boron nitride

Gas chromatographic properties of modified boron nitride 520(1990)41

Bovine serum albumin

see Albumin

Bradykinin

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Brassinosteroids

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Brilliant Black

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Brine

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Bromide

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Bromine

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

N-Bromoacetyl-3,3',5-triiodo-L-thyronine

Synthesis and characterization of N-bromoacetyl-3,3',5-triiodo-L-thyronine 538(1991)165

Bromocriptine

High-performance liquid chromatographic assay of bromocriptine in rat plasma and brain 533(1990)264

Bromodibenzofuran

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

Bromodichloromethane

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

7-Bromomethylbenz[*a*]anthracene

Reactivity and adduct formation of a polyaromatic hydrocarbon, 7-bromomethylbenz[*a*]anthracene, with chromatin histone proteins 528(1990)25

4-Bromomethyl-7-methoxycoumarin

Improved automated precolumn derivatization reaction of fatty acids with bromomethylmethoxycoumarin as label 502(1990)423

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

Bruceoside A

Determination of the anticancer drug bruceoside-A in the Chinese drug Yadanzi (*Brucea Javanica* Merr.) 543(1991)250

Buflo-medil

High-performance liquid chromatographic method for the measurement of buflo-medil in plasma and serum 532(1990)187

Bupivacaine

Sensitive determination of bupivacaine in human plasma by high-performance liquid chromatography 527(1990)201

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Buprenorphine

Analysis of buprenorphine in plasma and urine by gas chromatography 528(1990)459

Buspirone

Determination of plasma buspirone by high-performance liquid chromatography with coulometric detection 526(1990)590

Busulfan

Determination of busulfan in plasma by high-performance liquid chromatography 528(1990)274

Quantitation of busulfan in plasma by high-performance liquid chromatography 532(1990)424

Quantitation of busulfan in plasma by high-performance liquid chromatography using postcolumn photolysis 532(1990)429

Butenes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Butanol

Headspace analysis of polar compounds in air 509(1990)107

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

2-Butanone

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Butenes

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformat 509(1990)33

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Homogeneous catalysis studied by reversed-flow gas chromatography 550(1991)181

Butoxypropanols

Speciation of polyhydroxy compounds by gas chromatography-mass spectrometry with deuterium oxide chemical ionization 520(1990)209

Butyl acetate

Headspace analysis of polar compounds in air 509(1990)107

Butylate

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Butylated hydroxytoluene

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Butyltin compounds

Simultaneous determination of butyltin and phenyltin compounds in oysters by capillary gas chromatography 525(1990)105

1-[1-(3-Butynylloxymethyl)]-2-hydroxyimino-methyl-3-methylimidazolium chloride

Determination of the oximes 2-hydroxyimino methyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride and 1-[1-(3-butynyl-oxymethyl)]-2-hydroxyiminomethyl-3-methylimidazolium chloride in plasma by high-performance liquid chromatography 527(1990)361

Butyrate

Optimization of isotachopheric analysis: use of the charge-based transient-state model 545(1991)249

4-Butyrolactones

Liquid chromatography–thermospray mass spectrometric study of N-acylamino dilactones and 4-butyrolactones derived from antimycin A 522(1990)179

Butyrophenones

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

C**Cadaverine**

Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Cadmium

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Caeruloplasmin

Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of caeruloplasmin 503(1990)237

Caffeic acid

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Synthesis of esters of acetyloxycaffeic acids and their occurrence in poplar bud exudates 543(1991)113

Caffeine

Rapid determination of caffeine in green tea by gas–liquid chromatography with nitrogen–phosphorus-selective detection 505(1990)435

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Short-column liquid chromatographic assay for caffeine and chloramphenicol in serum 525(1990)464

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsomes by high-performance liquid chromatography 532(1990)95

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Calcitonin

Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123

Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131

Calcium

Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Calcium channel blockers

Chromatography of calcium channel blockers 531(1990)181

Calcium phosphate

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Calmodulin

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Purification of cloned trypanosomal calmodulin and preliminary NMR studies 539(1991)501

Calvatic acid

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Camphene

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397

10-Camphorsulphonates

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Camptothecin

Determination of camptothecin in biological fluids using reversed-phase high-performance liquid chromatography with fluorescence detection 530(1990)367

Candida albicans

Fatty acid contents of the yeast and mycelial phase of *Candida albicans* 533(1990)152

Cannabinoid acids

Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339

Caprolactam

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Packed column gas chromatography-capillary column gas chromatography-mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

Captan

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Captopril

Determination of captopril in human blood by gas chromatography-negative-ion chemical ionization mass spectrometry with [$^{18}\text{O}_4$]captopril as internal standard 529(1990)299

Carazolol

High-performance liquid chromatographic method for the determination of carazolol in serum or plasma of pigs 527(1990)461

Carbadox

Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin. Stability studies in animal tissues 541(1991)401

Carbamates

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Carbamazepine

Direct serum injection high-performance liquid chromatographic method for the simultaneous

determination of phenobarbital, carbamazepine and phenytoin 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Analysis of carbamazepine in serum by liquid chromatography with direct sample injection and surfactant-containing eluents 535(1990)293

Carbaryl

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography-fluorescence spectrometry 547(1991)345

Carbazole

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Carbendazim

Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-

performance liquid chromatographic method 518(1990)242

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375

Liquid chromatographic determination of carbendazim in the presence of some normal soil constituents with photodiode-array detection 538(1991)480

Carbidopa

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Carbofuran

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359

Carbohydrates

see also Sugars and Saccharides

High-pH ion-exchange separation and electrochemical detection of alditols, carbohydrates and acidic sugars 503(1990)227

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Analysis of sugars by supercritical fluid chromatography using polar packed columns and light-scattering detection 505(1990)299

- Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157
- Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423
- 2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303
- Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227
- Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57
- Constant-potential amperometric detector for carbohydrates at a nickel(III) oxide electrode for micro-scale flow-injection analysis and high-performance liquid chromatography 515(1990)213
- Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415
- Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503
- Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639
- High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldononitriles 519(1990)228
- Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185
- Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201
- On-line sample clean-up of fermentation broths and substrates prior to the liquid chromatographic separation of carbohydrates 523(1990)173
- Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17
- Molecular interactions in liquid chromatography 537(1991)33
- High-performance liquid chromatographic determination of the antibiotic corticosterone 542(1991)200
- Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219
- Ion chromatographic methods for the detection of starch hydrolysis products in ruminal digesta 546(1991)273
- Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299
- High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113
- Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519
- β -Carbolines**
Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331
- Carbon-14**
Detection of carbon-14 eluting from a capillary gas chromatograph using chemical reaction interface-mass spectrometry 527(1990)1
- Carbonate**
Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Carbon dioxide

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Sorption isotherms of mobile phase components in capillary supercritical fluid chromatography 505(1990)139

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

Carbonic anhydrase

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Carbonic anhydrase inhibitor

Development of direct stereoselective and non-stereoselective assays in biological fluids for the enantiomers of a thieno[2,3-*b*]thiopyran-2-sulfonamide, a topically effective carbonic anhydrase inhibitor 526(1990)461

Carbon monoxide

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Carbon tetrachloride

Improvement of activated carbon for air sampling 503(1990)33

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Carbonyl compounds

see also Aldehydes and Ketones

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Carbonyl reductase

Enantiospecific assay for mammalian carbonyl reductase by liquid chromatography with fluorescence detection 532(1990)65

Carboplatin

Determination of carboplatin in canine plasma by liquid chromatography with ultraviolet-visible detection and confirmation by atomic absorption spectroscopy 527(1990)447

(-)-Carbovir

Improved fluorometric high-performance liquid chromatographic assay for (-)-carbovir in rat blood and urine 534(1990)109

Carboxylases

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Carboxylic acids

see also Fatty acids and Organic acids

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179

Retention behaviour of mono- and dicarboxylic acids, carbohydrates and alcohols in ion-exclusion chromatography 506(1990)157

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

2-(2,3-Naphthalimino)ethyl

trifluoromethanesulphonate as a highly reactive ultraviolet and fluorescent labelling agent for the liquid chromatographic determination of carboxylic acids 508(1990)133

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Optimized isocratic separation of major carboxylic acids in wine 542(1991)277

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Carboxymethylcellulose

Gas-liquid chromatographic analysis of carboxymethylcellulose and carboxymethylstarch 513(1990)338

S-Carboxymethyl-L-cysteine

Isotachopheresis in open-tubular fused-silica capillaries. Impact of electroosmosis on zone formation and displacement 516(1990)211

Carboxymethyl- β -1,3-glucan

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

Carboxymethyl-HVFM

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

3-Carboxy-4-methyl-5-propyl-2-furanpropanoic acid

Separation of albumin-binding ligands present in uremic serum by high-performance affinity chromatography 529(1990)424

Carboxymethylstarch

Gas-liquid chromatographic analysis of carboxymethylcellulose and carboxymethylstarch 513(1990)338

Cardiac glycosides

Separation and determination of lanatosides in *Digitalis lanata* leaves by high-performance liquid chromatography 508(1990)241

Chromatography of cardiac glycosides 531(1990)215

Lipophilic character of cardiac glycosides: correlation between R_M values and acute toxicity data in different animal species. 547(1991)523

Cardiovascular drugs

Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45

3-Carene

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

L-Carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

L-Carnitine interference in gas chromatographic determination of total trimethylamine in urine: a novel assay method 532(1990)124

β -Carotene

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Carotenoids

Separation and determination of individual carotenoids in a *Capsicum* cultivar by normal-phase high-performance liquid chromatography 502(1990)95

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

High-performance liquid chromatography of *cis-trans* isomers of neurosporene: discrimination of *cis* and *trans* configurations at the end of an open conjugated chain 519(1990)221

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Carrageenan

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Carteolol

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Casein

High-performance liquid chromatography of casein hydrolysates phosphorylated and dephosphorylated. I. Peptide-mapping 519(1990)299

Immobilized Fe^{3+} affinity chromatographic isolation of phosphopeptides 539(1991)425

Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361

Casein kinase

Separation of acidic peptides by reversed-phase ion-pair chromatography. Analytical application to a series of acidic substrates of casein kinases 548(1991)329

Castalagin

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Catechin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Catechin pentoside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Catechol

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Catecholamines

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by

column chromatography with electrochemical detection 518(1990)258

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Proposal for the standardization of the calibration method for the assay of plasma catecholamines 526(1990)194

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Improvement of resolution in the capillary electrophoretic separation of catecholamines by complex formation with boric acid and control of electroosmosis with a cationic surfactant 538(1991)385

Improvements in automated analysis of catecholamine and related metabolites in biological samples by column-switching high-performance liquid chromatography 541(1991)273

High-performance liquid chromatographic determination of L-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyldopa) in human urine and plasma 541(1991)285

Optimization of Nafion-coated electrodes for selective detection in high-performance liquid chromatography 547(1991)1

Catechol-O-methyltransferase

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Catharanthine

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Cations

Environmental applications of ion chromatography (Review) 504(1990)211

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Use of ion chromatography in agricultural research (Review) 546(1991)387

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484

Simultaneous analysis of anions and cations by single-column ion chromatography 549(1991)257

Cefaclor

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefalozin

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefamandole

Simultaneous determination of cefamandole and cefamandole nafate in human plasma and urine by high-performance liquid chromatography with column switching 528(1990)425

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefamandole nafate

Simultaneous determination of cefamandole and cefamandole nafate in human plasma and urine by high-performance liquid chromatography with column switching 528(1990)425

Cefaoridine

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Cefmenoxime

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefotaxime

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Cefotiam

High-performance liquid chromatographic assay for cefotiam and d3-cefotiam in human serum 525(1990)484

Ceftizoxime

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Ceftriaxone

High-performance liquid chromatographic determination of the binding of ceftriaxone to human serum albumin solution and albumin from diluted human serum 528(1990)415

D-Cellobiose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Celoxylanases

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Cellulose

Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367

Cellulose, biotinylated

Studies on the interaction of a surface-bound ligand with a multi-valent high-molecular-weight ligate. The biotinylcellulose-avidin system 510(1990)23

Cellulose nitrates

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Central nervous system-active drugs

Applicability of new chiral stationary phases in the separation of racemic pharmaceutical compounds by high-performance liquid chromatography 547(1991)45

Cephalosporinase

Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 1028 545(1991)189

Cephalosporins

Simple method for determination of the cephalosporin DQ-2556 in biological fluids by high-performance liquid chromatography 515(1990)547

High-performance liquid chromatographic determination of cephalosporin antibiotics using 0.3 mm I.D. columns 539(1991)215

Ceramics

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Cerium (IV)

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585

Cetrimide

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Cetylpyridinium chloride

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Cetyltrimethylammonium

Ion chromatography of inorganic iodine species using C_{18} reversed-phase columns coated with cetyltrimethylammonium 549(1991)265

Cetyltrimethylammonium bromide

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

CGS 8515

Determination of the 5-lipoxygenase inhibitor (CGS 8515) in plasma by high-performance liquid chromatography using reductive electrochemical detection 534(1990)260

 α -Chaconine

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Chalcones

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Chelerythrine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Chelirubine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Chelitopine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Chemical warfare agents

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Retention index monitoring of compounds of chemical defence interest using thermal desorption gas chromatography 538(1991)249

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography-mass

spectrometry and gas chromatography-tandem mass spectrometry 541(1991)121

Chimassorb 944

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Chirasil-Val

Immobilization of chiral phases for enantiomer separations in supercritical fluid and gas chromatography 540(1991)217

Chitin

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Chitinase

Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183

Chitosan

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Chlobenzorex

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Chloral hydrate

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Chlorambucil

High-performance liquid chromatographic analysis of chlorambucil *tert.*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Chlorambucil *tert.*-butyl ester

High-performance liquid chromatographic analysis of chlorambucil *tert.*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Chloramphenicol

Rapid monitoring of chloramphenicol in microsamples of plasma by capillary gas chromatography with electron-capture detection 525(1990)454

Short-column liquid chromatographic assay for caffeine and chloramphenicol in serum 525(1990)464

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

Simultaneous determination of chloramphenicol and benzocaine in topical formulations by high-performance liquid chromatography 542(1991)515

Chlorate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Chlorhexidine

Simultaneous determination of thimerosal and chlorhexidine in solutions for soft contact lenses and its applications in stability studies 523(1990)321

Chloride

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Hollow-fibre membrane-based sample preparation device for the clean-up of brine samples prior to ion chromatographic analysis 538(1991)497

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Ion chromatography for the analysis of household consumer products 546(1991)351

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Chlorinated benzenes

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Chlorinated phenols, fatty acid conjugates

Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85

Chlorine

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Chlorite

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Chloroacetaldehyde

Derivatization-liquid chromatographic assay of chloroacetaldehyde in biological samples 518(1990)385

Chloroacrylic acid

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Chloroallyl alcohol

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Chlorobenzenes

Possibilities of enhancing the sensitivity of the determination of UV-absorbing compounds in high-performance liquid chromatography 550(1991)495

6-Chloro-2H-1,2,4-benzothiadiazine-1,1-dioxide

High-performance liquid chromatographic

method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151

α -Chloro-chalcone

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Chloro compounds

Oxygen enhancement of thermal electron capture in a non-radioactive discharge source for a quadrupole mass spectrometer 517(1990)87

Chlorodifluoromethane

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Chloroform

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Chloroformates

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

(4-Chloro-2-methylphenoxy)acetic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

(4-Chloro-2-methylphenoxy)butyric acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

2-(4-Chloro-2-methylphenoxy)propionic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

1-Chloro-2-nitrobenzene

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

7-Chloro-4-nitrobenzofurazon

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Chlorophenols

Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

Chlorophenoxy acids

Determination of chlorophenoxy acids using high-performance liquid chromatography-particle beam mass spectrometry 542(1991)385

***m*-Chlorophenylpiperazine**

High-performance liquid chromatographic method for the analysis of plasma *m*-chlorophenylpiperazine 528(1990)228

Assay of *m*-chlorophenylpiperazine in plasma and brain of rat by capillary gas chromatography-mass spectrometry 533(1990)215

Chlorophyllides

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Chlorophylls

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Chloroplast pigments

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C₁₈ high-performance liquid chromatographic column 543(1991)137

Chloroprene

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

2-Chloro-1-propanol

Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography-ultraviolet/fluorescence detection 515(1990)337

Chloroprotham

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Chloropyridines

Determination of chloropyridine isomers by gas chromatography and high-performance liquid chromatography in chlorpyrifos process development 540(1991)331

Chloropyrifos

Determination of chloropyridine isomers by gas chromatography and high-performance liquid chromatography in chlorpyrifos process development 540(1991)331

Chloroquine

Assay method for the simultaneous determination of proguanil, chloroquine and their major metabolites in biological fluids 527(1990)490

Identification of a chloroquine artifact by gas chromatography-mass spectrometry 532(1990)400

Chlorosilanes

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Chlorothiazide

High-performance liquid chromatographic method for studies on the photodecomposition kinetics of chlorothiazide 507(1990)151

Chlorotriazines

Determination of chlorotriazines and their photolysis products by liquid chromatography

with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Chlorpheniramine

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Chlorpyrifos

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

Chlorsulfuron

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

Chlortetracycline

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Chlorthalidone

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Chlorzoxazone

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulphonate

Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99

Cholecystokinin receptor

Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor 511(1990)333

Cholestanetriol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzoylation 547(1991)105

Cholesterol

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Simple and rapid thin-layer chromatographic method for quantitative measurement of free cholesterol in serum 532(1990)449

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Cholesterol oxides

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzylation 547(1991)105

Cholesterol pelargonate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Cholesteryl chloroacetate

Supercritical fluid extraction and chromatography of cholesterol in food samples 515(1990)509

Choline

Improvements in the separation and detection of acetylcholine and choline using liquid chromatography and electrochemical detection 502(1990)337

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Measurement of acetylcholine and choline in cerebrospinal fluid by high-performance liquid chromatography: failure to detect acetylcholine in normal human cerebrospinal fluid 529(1990)408

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Detection of choline and acetylcholine by high-performance liquid chromatography. Limitations, pitfalls, sample preparation 537(1991)514

Chorismate

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Chromium

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetone by reversed-phase high-performance liquid chromatography 502(1990)221

Determination of dissolved hexavalent chromium in industrial wastewater effluents by ion chromatography and post-column derivatization with diphenylcarbazine 546(1991)335

Chromium complexes

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Chromium dioxide

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Chromium (III), EDTA complex

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Chromosomal proteins, non-histone

Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39

Chrysene

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Chymotrypsin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Chymotrypsinogen A

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Cibacron Blue

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Immobilized Cibacron Blue—leachables, support stability and toxicity on cultured cells 539(1991)355

Cibenzoline

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Cicloprolol

High-performance liquid and gas chromatographic methods for the determination of cicloprolol 525(1990)359

Cilastatin

High-performance liquid chromatographic determination of cilastatin and its major metabolite N-acetylcilastatin in rat plasma, urine and bile 534(1990)119

Cimetidine

Sensitive detection and determination of cimetidine in human tissues with high-performance liquid chromatography 534(1990)253

Cinnamates

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*)- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Cinnamic acid

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Cinoxate

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Ciprofloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186

C.I. Reactive Blue 2

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Cisplatin

Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection 528(1990)517

High-performance liquid chromatographic analysis of unchanged *cis*-diamminedichloro-platinum (cisplatin) in plasma and urine with post-column derivatization 529(1990)462

High-performance liquid chromatographic determination of *cis*-diamminedichloro-platinum (II) (cisplatin) as the *o*-phenylenediamine complex 530(1990)219

Citalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Citrate

Ion chromatography for the analysis of household consumer products 546(1991)351

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Citric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Citrinin

Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317

Citrulline

Determination of citrulline and homocitrulline by high-performance liquid chromatography with post-column derivatization 532(1990)37

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Clarithromycin

Impurity profiling of clarithromycin using high-performance liquid chromatography with ultraviolet detection 502(1990)351

Estimation and identification of non-polar compounds in clarithromycin bulk drug by high-performance liquid chromatography 540(1991)422

Clenbuterol

Determination of clenbuterol in bovine plasma and tissues by gas chromatography-negative-ion chemical ionization mass spectrometry 518(1990)41

Rapid determination of clenbuterol residues in urine by high-performance liquid chromatography with on-line automated sample processing using immunoaffinity chromatography 519(1990)323

Clindamycin

High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217

Clindamycin phosphate

High-performance liquid chromatography of clindamycin and clindamycin phosphate with electrochemical detection 503(1990)217

Clomipramine

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Clonazepam

Simple and sensitive method for monitoring clonazepam in human plasma and urine by high-performance liquid chromatography 529(1990)210

Clophenoxol

Controlling the retention of clophenoxol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

***Clostridium sordellii* cytotoxin**

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

Clothiazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Cloxacillin

High-performance liquid chromatographic method for the determination of cloxacillin in commercial preparations and for stability studies 549(1991)410

Clozapine

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

Coagulation factors

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Coal tars

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Cobalamins

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Cobalt

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetonone by reversed-phase high-performance liquid chromatography 502(1990)221

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Cobalt chloride

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Cobalt complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Cobinamide

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoaquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cobinic acid pentaamide

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoaquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cobyric acid

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoaquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Cocaine

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoynorecgonine by high-performance liquid chromatography 525(1990)113

Determination of cocaine and norcocaine in plasma and cell cultures using high-performance liquid chromatography 526(1990)447

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsomes by high-performance liquid chromatography 532(1990)95

Cochineal Red

Isotachopheresis of some synthetic colorants in foods 545(1991)413

α -Codeimethine

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Codeine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

O⁶-Codeine methyl ether

Assay of semi-synthetic codeine base with simultaneous determination of α -codeimethine and O⁶-codeine methyl ether as by-product impurities by high-performance liquid chromatography 519(1990)250

Coenzyme A thioesters

Combined high-performance liquid chromatographic-continuous-flow fast atom bombardment mass spectrometric analysis of acylcoenzyme A compounds 527(1990)289

Colchicine

Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

Collagen

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Polyacrylamide gel electrophoresis and immunoblotting of native collagen molecules using the Phast system. Application to type XI collagen 530(1990)432

Collagen cross-links

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Colloids

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Complement factor C3

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391

Conalbumin

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Concanavalin A

Isoelectric focusing studies of concanavalin A and the lentil lectin 502(1990)131

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

High-performance affinity chromatography of concanavalin A 510(1990)95

Behaviour of concanavalin A on DEAE-Sephadex and CM-Sephadex 537(1991)460

Contrast agents

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Copolymers

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429

Copolymers, random

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Copper

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as

8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Copper acetylacetonates

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Copper-chelate complexes

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Copper complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Copper(II)-1,3-diaminopropane-cellulose

Separation of enantiomers using polymeric copper-amine-cellulose columns 513(1990)370

Copper(II)-iminodiacetic acid

Copper(II)-iminodiacetic acid chelating resin as a stationary phase in the immobilized metal ion affinity chromatography of some aromatic amines 515(1990)169

Coptisine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Corrinoids

High-performance liquid chromatographic separation and dual competitive binding assay of corrinoids in biological material 529(1990)81

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

Corrosion inhibitor

Direct determination of corrosion inhibitor in aviation fuel by a column-switching technique using gel-permeation chromatography 508(1990)259

Cortalcerone

High-performance liquid chromatographic determination of the antibiotic cortalcerone 542(1991)200

Corticosteroids

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Corticosterone

Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid 528(1990)453

Cortisol

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

Cotinine

Nicotine metabolites in the urine of smokers 525(1990)193

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Cotinine-N-oxide

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Coumachlor

(R)- and (S)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

p-Coumaric acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Coumarin 343

Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639

Coumarins

Optimization of the high-performance liquid chromatography of coumarins in *Angelica archangelica* with reference to molecular structure 507(1990)367

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Creatine

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Creatine kinase MM

Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423

Creatine phosphate

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Creatinine

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Determination of creatinine in serum by high-performance liquid chromatography: a comparison of three ion-exchange methods 527(1990)21

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

Cresols

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Crodamide

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Cromakalim

Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 515(1990)597

Crown ethers

Preparation and gas chromatographic characterization of some immobilized crown ether-polysiloxane stationary phases 504(1990)279

Resolution of free aromatic amino acid enantiomers by host-guest complexation using reversed-phase liquid chromatography 521(1990)134

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Crown ethers as stationary phases in gas chromatography. Comparison between dibenzo-18-crown-6, dibenzo-24-crown-8 and dicyclohexano-24-crown-8 with respect to polarity, selectivity and stability 543(1991)179

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Cryomazine

High-performance liquid chromatographic separation of cryomazine and its metabolite melamine 505(1990)413

Cryptands

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Cryptotanshinone

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Crystallins

Molecular mass distribution of water-soluble crystallins from the human foetal lens during development 529(1990)277

Crystal violet

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

CV-3988

Determination of a platelet activating factor antagonist (CV-3988): methodology and clinical application 526(1990)515

Cyanate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Cyanazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Cyanide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a cryptand as phase-transfer catalyst 502(1990)257

Determination of free cyanide in gold cyanidation process liquors by ion-interaction

chromatography with post-column derivatization 550(1991)559

4-Cyano-5,5-bis(4-methoxyphenyl)-4-pentenoic acid

Determination of 4-cyano-5,5-bis(4-methoxyphenyl)-4-pentenoic acid in human plasma and platelets by gas chromatography-mass spectrometry 528(1990)199

Cyanocobalamin

Determination of vitamin B₁₂ in multivitamin-multimineral tablets by high-performance liquid chromatography after solid-phase extraction 541(1991)383

3-Cyanoformazan

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Cyanogen chloride

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Cyanosilicones

Influence of adsorption at the gas-liquid interface on the determination of gas chromatographic retention indices on open-tubular columns coated with cyanosilicones 502(1990)1

Cyanuric chloride

Novel silica-based strong anion exchanger for single-column ion chromatography 515(1990)49

Cyclamate

Ion chromatography for the analysis of household consumer products 546(1991)351

Cyclic adenosine monophosphate

High-performance liquid chromatographic determination of 3',5'-cyclic adenosine monophosphate in human platelets 527(1990)421

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Determination of adenosine and cyclic adenosine monophosphate in urine using solid-phase extraction and high-performance liquid chromatography with fluorimetric detection 529(1990)437

Cyclic *n*-alkyl boronates

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Cycloalkanes

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Cyclodextrins

Acylation effects on chiral recognition of racemic amines and alcohols by new polar and non-polar cyclodextrin derivative-gas chromatographic phases 502(1990)154

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Charge-transfer chromatographic study on inclusion complex formation between two hydroxypropyl- β -cyclodextrins and some chlorophenols 509(1990)255

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

(*S*)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355

Use of cyclodextrins in the isotachopheric determination of various inorganic anions 518(1990)189

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas-solid system 520(1990)105

High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15

Liquid chromatographic separation of the enantiomers of dinitrophenyl amino acids using a β -cyclodextrin-bonded stationary phase 543(1991)105

Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419

Cyclohexanol

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Cyclohexanone

Comparison of sorbents for solid-phase extraction of polar compounds from water 509(1990)123

Cyclooctenes

Stereoselectivity of α -, β - and γ -cyclodextrin complexation relative to *cis-trans* acyclic alkenes and cyclooctenes under conditions of gas-liquid chromatography 547(1991)283

Cycloolefins

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Cyclopentenones

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Cyclosporin A

Improved high-performance liquid chromatographic method for analysis of cyclosporin A using an automated sample processor 525(1990)123

Cyclosporins

Fully automatic high-performance liquid chromatographic optimization 550(1991)27

Cyproterone acetate

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Cystathionine

Determination of N-monoacetylcystathionine in biological samples using isotachopheresis 526(1990)550

Cysteamine

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Cysteine

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Cysteine protease inhibitor

High-performance liquid chromatographic determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by pre-column fluorescence derivatization 526(1990)77

Cysteinyl leukotrienes

Capillary isotachophoretic determination of cysteinyl leukotrienes 545(1991)375

Cystine

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Cytidine deaminase

Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395

Cytidine triphosphate synthase

Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403

Cytochrome b₆f

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Cytochrome c

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157

Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189

Capillary electrophoretic separation in both H₂O- and ²H₂O-based electrolytes can provide more information on tryptic digests 547(1991)551

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Cytochrome c oxidase

Rapid purification of cytochrome c oxidase from *Paracoccus denitrificans* 521(1990)291

Cytochrome P-450

Analytical fractionation of microsomal cytochrome P-450 isoenzymes from rat liver by high-performance ion-exchange chromatography 521(1990)251

Cytokine receptors

Purification of soluble cytokine receptors from normal human urine by ligand-affinity and immunoaffinity chromatography 510(1990)331

Cytokinins

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Cytosine deaminase

Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395

Cytotoxins

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

D **β -Damascenone**

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

Dansyl chloride

Automated amino acid analysis using precolumn derivatization with dansylchloride and reversed-phase high-performance liquid chromatography 504(1990)129

Dansyl hydrazones

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Dantrolene

Determination of a dantrolene metabolite, 5-(*p*-nitrophenyl)-2-furoic acid, in plasma and urine by

high-performance liquid chromatography 526(1990)575

Daunorubicin

Sensitive method for the determination of daunorubicin and all its known metabolites in plasma and heart by high-performance liquid chromatography with fluorescence detection 529(1990)359

N-Deacetyl-14-O-demethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetyl-16-O-demethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetyl-14,16-O-dimethylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

N-Deacetylappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

Deacetylpyriferic acid

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Deamidobleomycin

Separation of bleomycins and their deamido metabolites by high-performance cation-exchange chromatography 514(1990)86

 α -Decalol

Analytical gas chromatographic separations of diastereomeric *tert*.-butylmethoxyphenylsilyl ethers 514(1990)305

Deethylatrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine

and deethylatrazine in soils from corn fields 549(1991)229

Dehydroascorbic acid

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

7-Dehydrocholesterol

Determination of 7-dehydrocholesterol in human skin by high-performance liquid chromatography 530(1990)19

Dehydrosalidroside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Dehydrosparteine

Simultaneous determination of sparteine and its 2-dehydro and 5- α -hydro metabolites in urine by high-performance liquid chromatography with electrochemical detection 529(1990)194

11-Dehydrothromboxane B₂

11-Dehydrothromboxane B₂: convenient preparation of its stable isotope-labelled analogue for use in quantitative gas chromatography-mass spectrometry 526(1990)169

Deisopropylatrazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229

Delorazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Demecolcine

Determination of the antimetabolic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

N-Demethyldeacetyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

N-Demethyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

N-Demethylencaïnide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

O-Demethylencaïnide

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

N-Demethylfloxacin

Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Demethylmedicarpin

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Demethyltauromustine

Determination of tauromustine and its demethylated metabolites in plasma and urine 526(1990)151

Demoxytocin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

Denopamine

Determination of denopamine in human and dog plasma by high-performance liquid chromatography with electrochemical detection 529(1990)500

2'-Deoxyadenosine

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

N-Deoxycortisol

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

2'-Deoxycytidine adducts

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column 541(1991)317

7-Deoxydoxorubicin aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

7-Deoxydoxorubicinol aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

2-Deoxy-D-glucitol

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

2-Deoxy-D-glucose

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

2'-Deoxyguanosine adducts

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column 541(1991)317

N-(Deoxyguanosin-8-yl)-2-aminofluorene

Release of 2-aminofluorene from N-(deoxyguanosin-8-yl)-2-aminofluorene by hydrazinolysis 538(1991)447

Deoxynivalenol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Molecular interactions in liquid chromatography 537(1991)33

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Deoxyipyridinoline

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Deoxyribonucleosides

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Deoxyribonucleoside triphosphates

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Deoxyribonucleotides

High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237

Deoxyspergualin

High-performance liquid chromatographic determination of deoxyspergualin in dog plasma with ultraviolet detection 527(1990)208

Deoxyuridines

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Deprenyl

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Dermatan sulphate

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

N-Desacetylcolchicine

Determination of the antimitotic agents N-desacetylcolchicine, demecolcine and colchicine in serum and urine 525(1990)411

Desacetyldiltiazem

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

Desacetyl navelbine

Determination of navelbine and desacetyl navelbine in biological fluids by high-performance liquid chromatography 525(1990)225

Des-enkephalin- γ -endorphin

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Desferriferichromes

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Desferrioxamine

Simultaneous determination of desferrioxamine and ferrioxamine by high-performance liquid chromatography with amperometric detection 527(1990)481

Desferrioxamine B

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Desipramine

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Studies on system peaks in ion-pair adsorption chromatography. IV. Optimization of peak compression 535(1990)93

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

N-Desmethylmedifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

O-Desmethylnaftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

N-Desmethylnizatidine

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

N-Desmethylnapristone

Determination of onapristone and its N-desmethyl metabolite in human plasma or serum by high-performance liquid chromatography 532(1990)115

Desmethylselegiline

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Desmethylsertraline

Separation and determination of sertraline and its metabolite, desmethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography 527(1990)467

Desmosine

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Desoxycarbadox

Optimization and ruggedness testing of the determination of residues of carbadox and metabolites in products of animal origin. Stability studies in animal tissues 541(1991)401

Desoxyvasicinones

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. III. Variation of ring size 537(1991)377

Desulphoglucosinolates

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Detomidine

Determination of detomidine residues in horse meat by negative-ion chemical ionization mass spectrometry 530(1990)137

Deuterium

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Deuterium oxide

Effect of $^2\text{H}_2\text{O}$ on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277

Capillary electrophoresis in [^2H]water solution 541(1991)489

Capillary electrophoretic separation in both H_2O - and $^2\text{H}_2\text{O}$ -based electrolytes can provide more information on tryptic digests 547(1991)551

The effect of $^2\text{H}_2\text{O}$ and an ion-pairing agent on the liquid chromatographic separation of dansylated amino acids 549(1991)404

Dexamethasone

Determination of dexamethasone in bovine tissues by coupled-column normal-phase high-performance liquid chromatography and capillary gas chromatography-mass spectrometry 529(1990)1

Dextrans

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Dextromethorphan hydrobromide

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Dextropropoxyphene

Determination of impurities in dextropropoxyphene hydrochloride by high-performance liquid chromatography on dynamically modified silica 539(1991)186

Diacetolol

High-performance liquid chromatographic determination of diacetolol enantiomers 533(1990)300

4,15-Diacetoxyscirpentiol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Diacylglycerols

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Enantiomer separation of diacid-diacylglycerol mixtures by high-performance liquid chromatography on a chiral column 519(1990)237

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89

Diacylglycerophospholipids

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

1,2-Diacylphosphatidylcholine

Refractive index gradient detection of biopolymers separated by high-temperature liquid chromatography 536(1991)289

Dialkyl ethers

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Diallyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Diamine oxidase

Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333

cis-Diaminodichloroplatinum(II)

High-performance liquid chromatographic determination of *cis*-diamminedichloroplatinum (II) (cisplatin) as the *o*-phenylenediamine complex 530(1990)219

1,6-Diaminohexane

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

2,3-Diaminonaphthalene

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

2,3-Diaminophenazine

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3

phénazine dans les carbendazimes techniques et formulés 518(1990)375

Diaminopimelic acid

High-performance liquid chromatographic separation of the three stereoisomers of diaminopimelic acid in hydrolysed bacterial cells 536(1991)211

cis-Diamminedichloroplatinum

see Cisplatin

Dianabol

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Diatomaceous earth

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

1,4-Diazabicyclo[2.2.2]octane

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

Diazepam

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Dibenz[a,j]acridine

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1991)337

Dibromomethane

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Dibutylidithiocarbamates

High-performance liquid chromatographic determination of dibutylidithiocarbamate degradation products in cucumbers and soil 502(1990)214

Dibutyl phosphate

Simultaneous determination of tributyl phosphate and dibutyl phosphate in spent fuel reprocessing streams by gas chromatography 537(1991)489

Dibutyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Dibutyltin dichloride

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

Dicamba

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Dicarboxylic acids, unsaturated

Gas chromatographic-mass spectrometric characterisation of unsaturated dicarboxylic acids in urine 534(1990)182

2,7-Dichlorofluorescein

Indirect fluorometric detection in open-tubular capillary column chromatography 506(1990)401

Dichloromethane

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

1,4-Dichloro-2-nitrobenzene

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

(2,4-Dichlorophenoxy)acetic acid

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Dichloropropene

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Dichlorosilanes

Investigations by ^{29}Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Dichlorotetrafluoroacetone

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Dichlorvinphos

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Dichlorvos

Determination of metrifonate and dichlorvos in whole blood using gas chromatography and gas chromatography and gas chromatography-mass spectrometry 529(1990)309

Diclofenac

High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine 528(1990)487

Diclofop-methyl

Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography 547(1991)509

Didanosine

Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282

Didemethyltaoumustine

Determination of taoumustine and its demethylated metabolites in plasma and urine 526(1990)151

2',3'-Dideoxycytidine

High-performance liquid chromatographic method for the analysis of 2',3'-dideoxycytidine in human plasma 532(1990)442

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

2',3'-Dideoxyinosine

High-performance liquid chromatographic method for analysis of 2',3'-dideoxyinosine in human body fluids 526(1990)69

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

Dideoxyribonucleosides

Chromatographic characterization of some dideoxyribonucleosides 550(1991)507

Didesmethylcitalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Dienes, conjugated

Gas chromatography-mass spectrometry of conjugated dienes by derivatization with 4-methyl-1,2,4-triazoline-3,5-dione 522(1990)295

Dienestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Diethenylbenzenes

Biotransformation of diethenylbenzenes. II. Metabolic pattern of 1,4-diethenylbenzene 530(1990)283

1,2-Diethoxybenzene

Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149

Diethylamine succinimides

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

***p*-Diethylbenzene**

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Diethylthiocarbamate

Determination of sodium diethylthiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Diethylthiocarbamate S-methyl ester

Determination of sodium diethylthiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Diethylenetriamine pentaacetic acid-gadolinium complex

Magnetic resonance imaging in reversed-phase liquid chromatography 517(1990)263

3,9-Diethylidene-2,4,8,10-tetraoxaspiro[5.5]undecane

Gas chromatographic assay for 3,9-diethylidene-2,4,8,10-tetraoxaspiro[5.5]undecane 508(1990)179

Diethyl ketone

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Diethyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Diethylstilbestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Difloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Diflunisal

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Digitonin

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Digoxin, 3,5-dinitrobenzoyl derivative

Electrochemical detection of the 3,5-dinitrobenzoyl derivative of digoxin by high-performance liquid chromatography 526(1990)439

Dihydrochalcones

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Dihydrodiol

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine

by high-performance liquid chromatography 535(1990)279

4,5-Dihydro-2-(2,2-diphenylcyclopropyl)-1H-imidazole

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Dihydroergocornine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Dihydroergocristine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Dihydroergocryptine

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

7,8-Dihydrofolate reductase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

7,8-Dihydro- β -ionone

Thermal desorption- and sniffing-mass spectrometric monitoring of enriched trace compounds by means of a "live total transfer system" 547(1991)516

7,8-Dihydropteroate synthetase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

Dihydropyridine calcium entry blockers

Enantioselective determination of felodipine and other chiral dihydropyridine calcium entry blockers in human plasma 528(1990)343

Dihydropyridines

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

High-performance liquid chromatography of the metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Dihydropyrimidine dehydrogenase

New high-performance liquid chromatographic method for the determination of low activities of dihydropyrimidine dehydrogenase 529(1990)431

Dihydrotanshinone

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Dihydrotestosterone

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

5,6-Dihydrouridine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

6-Dihydroverbenalin

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

2,2-Dihydroxy-1,1-binaphthol

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

5 β ,20-Dihydroxyecdysone

Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443

3,4-Dihydroxyphenylacetic acid

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

3,4-Dihydroxyphenylalanine

Simultaneous measurement of L-DOPA, its metabolites and carbidopa in plasma of Parkinsonian patients by improved sample pretreatment and high-performance liquid chromatographic determination 511(1990)167

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Simple automated high-performance liquid chromatographic column-switching technique for the measurement of dopa and 3-O-methyldopa in plasma 530(1990)253

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

4,5-Dihydroxy-3-(*p*-sulphophenyl-azo)-2,7-naphthalene disulphonic acid
Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Diisopropyl fluorophosphate
Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

2,6-Diisopropylphenol
Electrochemical determination of 2,6-diisopropylphenol after high-performance liquid chromatography of extracts from serum 526(1990)293

O,O-Diisopropyl phosphorofluoridate
Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

β -Diketonate
Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

β -Diketonate chelates
Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

β -Diketonato complexes
Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Diketopiperazine
Direct stereochemical resolution of aspartame stereoisomers and their degradation products by high-performance liquid chromatography on a chiral crown ether based stationary phase 516(1990)365

Dilevalol
High-performance liquid chromatographic assay of dilevalol, a β -adrenoceptor blocker, in rat and human plasma 530(1990)458

Diltiazem
Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Solid-phase extraction of diltiazem and its metabolites from plasma prior to high-performance liquid chromatography 528(1990)542

9,10-Di(methacryloyloxymethyl)anthracene
Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Di(methacryloyloxymethyl)naphthalene
Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

7,4'-Dimethoxy-2'-hydroxyisoflavanone
Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

N-[2-(Dimethylamino)ethyl]acridine-4-carboxamide
Quantitation of the antitumour agent N-[2-(dimethylamino)ethyl]acridine-4-carboxamide in plasma by high-performance liquid chromatography 528(1990)385

Dimethylaminopyridinium reagents, polymeric
Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-

performance liquid chromatography–ultraviolet/fluorescence detection 515(1990)337

1,1-Dimethyl-4,4'-bipyridinium dichloride

Determination of paraquat in rat brain using ion-pair solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 527(1990)189

Dimethylformamide

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

Packed column gas chromatography–capillary column gas chromatography–mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

2,5-Dimethylfuran

Identification of exposure markers in smokers' breath 511(1990)291

N,N-Dimethylglycine

Gas chromatographic assay for N,N-dimethylglycine in urine 530(1990)227

N²,N²-Dimethylguanosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Dimethylmaleic anhydride

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

O,O-Dimethyl methylphosphonate

Thermal desorption–gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

N,N-Dimethyl-*n*-octylamine

Capillary supercritical fluid chromatography of aliphatic amines. Studies on the selectivity and symmetry with three different columns using carbon dioxide or nitrous oxide as mobile phase 516(1990)415

2,6-Dimethylphenol

Renaissance of gas chromatography–time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

2,4-Dimethylphenol

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

4-[(2,3-Dimethylphenyl)methyl]-1*H*-imidazole hydrochloride

Determination of detomidine residues in horse meat by negative-ion chemical ionization mass spectrometry 530(1990)137

Dimethyl phthalate

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Dimethylsiloxane

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Dimethyl sulphate

Determination of dimethyl sulphate in air by gas chromatography with flame photometric detection 541(1991)459

N-[4,4-Di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid hydrochloride

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115

Diniconazole

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

3,5-Dinitrobenzoyl derivative of digoxin

Electrochemical detection of the 3,5-dinitrobenzoyl derivative of digoxin by high-performance liquid chromatography 526(1990)439

2,4-Dinitrophenylpyridium chloride

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Dinitrotoluene

Poly(styrene–dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

***p-n*-Diocetylxyazoxybenzene**

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Diocetyl tin dichloride

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

1,3-Diolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Diols

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

1,4-Dioxane

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Dioxins

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Dioxins, halogenated

Correlation of structure with linear retention index for bromo- and bromochlorodibenzo-*p*-dioxins and bromodibenzofurans 540(1991)293

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Dipeptides

Electrochemical detection of dipeptides and dipeptide amides 515(1990)451

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Dipeptides, cyclic

Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299

Dipeptides, protected

Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325

Diphenhydramine

High-performance liquid chromatography method for the determination of diphenhydramine in human plasma 526(1990)597

2-(2,2-Diphenylcyclopropyl)-1*H*-imidazole

Quantification of cibenzoline and its imidazole metabolite by high-performance liquid chromatography in human serum 528(1990)267

Diphenylmercury

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

2,3-Diphosphoglycerate, cyclic

Quantification of cyclic 2,3-diphosphoglycerate from methanogenic bacteria by isotachopheresis 504(1990)421

Dipicrylamine

Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Diprafenone

Normal-phase high-performance liquid chromatographic procedure for the determination of diprafenone in plasma 527(1990)182

Dipyrrolic azosulfanilates

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Disopyramide

Simultaneous determination of disopyramide and its mono-N-dealkylated metabolite enantiomers in human plasma and urine by enantioselective high-performance liquid chromatography 529(1990)347

Disulphite

Sulfite-disulfite equilibrium on an ion chromatography column 508(1990)271

Ditekiren

Determination of ditekiren, a renin inhibitor peptide, in monkey serum using high-performance liquid chromatography with solid-phase extraction 526(1990)273

Dithiocarbamates

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Dithiouracil

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Diuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Divinylbenzene

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

DNA

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

High-performance affinity chromatography of DNA 508(1990)279

New ion exchangers for the chromatography of biopolymers 510(1990)133

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Recent developments in electrophoretic methods (Review) 516(1990)3

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

Application of capillary DNA chromatography to detect AIDS virus (HIV-1) DNA in blood 533(1990)87

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

DNA fragments

Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433

Separation of DNA restriction fragments by high performance capillary electrophoresis with low and zero crosslinked polyacrylamide using continuous and pulsed electric fields 516(1990)33

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Analysis and purification of DNA restriction fragments by high-performance liquid chromatography 548(1991)281

DNA polymerase

Purification on poly(U)-Sepharose 4B of human breast cancer cell line T-47D DNA polymerases 539(1991)511

DNA topoisomerase

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Docosaehaenoic acid

Enrichment of eicosapentaenoic acid and docosaehaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic

analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Dodecyl benzene

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Dodecyldimethylammonium chloride

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Dodecyltrimethylammonium bromide

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Dodecyl urocanate

Separation and determination of *Z* and *E* isomers of dodecyl urocanate 521(1990)148

Domoic acid

High-performance liquid chromatographic assay for domoic acid in serum of different species 526(1990)546

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Dopa

see 3,4-Dihydroxyphenylalanine

Dopamine

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Contributions to the calculation of retention data in ion-pair chromatography 508(1990)309

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites

L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Reversed-phase liquid chromatographic method with amperometric detection for the determination of the dopamine agonist 2-(*N*-propyl-*N*-2-thienylethylamino)-5-hydroxytetralin (*N*-0437) in human plasma and urine 528(1990)464

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Identification and quantitation of *N*-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-*O*-methyldopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Separation and estimation of small amounts of the enantiomers of carbidopa and methyldopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Dopamine receptors

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Dowicil 200

High-performance liquid chromatographic determination of free formaldehyde in cosmetics preserved with Dowicil 200 502(1990)193

Doxacurium

High-performance liquid chromatographic analysis of doxacurium, a new long-acting neuromuscular blocker 525(1990)389

Doxepin

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Doxorubicin

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Doxorubicin aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Doxorubicinol aglycone

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Droperidol

High-performance liquid chromatographic procedure for the determination of clozapine, haloperidol, droperidol and several benzodiazepines in plasma 525(1990)218

High-performance liquid chromatography of droperidol in whole blood 532(1990)181

Drugs

Comparison of high-performance liquid chromatography, supercritical fluid

chromatography and capillary zone electrophoresis in drug analysis 507(1990)125

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3

Separation procedures used to reveal and follow drug-protein binding 531(1990)51

Application of micellar mobile phases for the assay of drugs in biological fluids 531(1990)79

Radiochromatography in pharmaceutical and biomedical analysis 531(1990)101

Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171

DSTDP

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Dyes

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by characterization with a diode array detector 528(1990)155

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Direct use of Empore sheets in overpressured thin-layer chromatography 547(1991)403

Dyfonate

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Dynorphin A (1-17)

High-performance liquid chromatographic system for the separation of dynorphin A (1-17) fragments and its application in enzymolysis studies with rat nerve terminal membranes 529(1990)43

E

E09

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Ecdysteroids

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Reversed-phase high-performance liquid chromatographic separation of $5\beta,20$ -

dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase 547(1991)443

Echinomycin

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

EcoR I

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

EcoR V

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Eel growth hormone

Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 515(1990)483

Characterization of recombinant eel growth hormone 547(1991)131

Egg development neurosecretory hormone

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Eicosanoids

Simultaneous reversed-phase extraction of lipoxigenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Eicosapentaenoic acid

Enrichment of eicosapentaenoic acid and docosahexaenoic acid esters from esterified fish oil by programmed extraction-elution with supercritical carbon dioxide 515(1990)295

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1

Elastin

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Elicitors

Isolation and purity determination of a glycoprotein elicitor from wheat stem rust by medium-pressure liquid chromatography 521(1990)187

Ellagitannins

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Enalapril maleate

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

Encainide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

Endo- β -1,4-glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Endoproteinase Arg C

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Endorphins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample

pretreatment using gel permeation and solid-phase isolation 549(1991)185

Endosulfan

Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268

Endotoxins

Column liquid chromatography of endotoxins 525(1990)329

Removal of endotoxins using macroporous spherical poly(γ -methyl L-glutamate) beads and their derivatives 530(1990)148

Enflurane

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Enisoprost

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Enkephalins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Sensitive method for measuring hydrolysis of enkephalins in plasma, using high-performance liquid chromatography with electrochemical detection 532(1990)249

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Enzymes

see also Proteins

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

- Purification and characterization of hementin, a fibrinogenolytic protease from the leech *Haementeria ghilianii* 502(1990)359
- Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197
- Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277
- High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17
- Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311
- Modified high-performance liquid chromatographic determination of diamine oxidase activity in plasma 507(1990)333
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123
- Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149
- Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155
- Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177
- New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189
- Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197
- One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit- α -protinin, a novel carrier for purification of serine proteases 510(1990)239
- Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89
- Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131
- Assay of cytosine and cytidine deaminases by means of reversed-phase high-performance liquid chromatography 512(1990)395
- Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403
- Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237
- Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279
- High-performance liquid chromatography with a 3α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329
- High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

- Purification of yeast alcohol dehydrogenase by Congo red affinity chromatography 519(1990)379
- Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223
- High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333
- Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169
- Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sephacel 521(1990)179
- Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211
- Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231
- Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245
- Analytical fractionation of microsomal cytochrome P-450 isoenzymes from rat liver by high-performance ion-exchange chromatography 521(1990)251
- Isolation and partial characterization of angiotensinase A and aminopeptidase M from urine and human kidney by lectin affinity chromatography and high-performance liquid chromatography 521(1990)279
- Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoarum* 521(1990)301
- Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171
- Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53
- Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103
- Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119
- Isolation of a fibrinogen-converting enzyme ficozyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312
- Purification of urokinase by combined cation exchanger and affinity chromatographic cartridges 525(1990)297
- Purification of phospholipase-C from *Bacillus cereus* by affinity chromatography on 2-(4-aminophenylsulphonyl)ethyl-cellulose 525(1990)307
- Simple isocratic high-performance liquid chromatographic method for measuring pyridoxine kinase activity in crude biological extracts 526(1990)25
- Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423
- Determination of proline iminopeptidase activity in bovine dental germs by high-performance liquid chromatography 527(1990)158
- High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55
- New high-performance liquid chromatographic method for the determination of low activities of dihydropyrimidine dehydrogenase 529(1990)431
- High-performance liquid chromatographic procedure for the determination of serum prolidase activity 530(1990)116
- Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

- Simple fractionation of phospholipase A₂ analogues from snake venom by high-performance liquid chromatography 530(1990)129
- Selective elution of soluble rat liver glutathione transferases from a glutathione-Sepharose affinity column 530(1990)263
- Enantiospecific assay for mammalian carbonyl reductase by liquid chromatography with fluorescence detection 532(1990)65
- Preparative purification of adenosine deaminase from human erythrocytes by affinity chromatography 532(1990)75
- Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23
- Reversed-phase high-performance liquid chromatographic method for the measurement of polyamine oxidase activity 533(1990)187
- Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95
- Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153
- Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219
- Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311
- Mild hydrophobic interaction chromatography: prediction of chromatographic behaviour by preliminary analysis by "partition between aqueous two-phase systems" 538(1991)456
- Rapid detection and quantification of peroxidase activity in liquid chromatography 539(1991)198
- Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245
- Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279
- Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335
- Unfolding of truncated and wild type aspartate aminotransferase studied by size-exclusion chromatography 539(1991)383
- Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507
- Purification on poly(U)-Sepharose 4B of human breast cancer cell line T-47D DNA polymerases 539(1991)511
- Purification of NAD glycohydrolase from *Neurospora crassa* conidia by a polyclonal immunoadsorbent 539(1991)517
- Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525
- Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103
- Coated silica and its behaviour in dye-affinity chromatography 543(1991)9
- Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451
- Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 545(1991)189
- Isotachophoretic determination of 2-5A phosphodiesterase 545(1991)407
- Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79

Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145

High-performance liquid chromatographic assay of anthranilate synthase from plant cell cultures 547(1991)155

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Metal affinity displacement chromatography of proteins 549(1991)89

Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195

Ephedrine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Epicatechin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Epidermal growth factor

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Epinephrine

see Adrenaline

Epoxydes

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Epoxycholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzylation 547(1991)105

Epoxy glucose

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

N-(2,3-Epoxypropyl)carbazole oligomers

Gas-phase synthesis, properties and some applications of acylamide stationary phases for

high-performance liquid chromatography 521(1990)29

Equilin

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Ergocalciferol

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Ergot alkaloids, dihydro

Fast separation of dihydro ergot alkaloids on an octylsilica column 502(1990)241

Erythrocytes

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Erythromycin

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Determination of erythromycin base and 2'-acetylerythromycin in human plasma using high-performance liquid chromatography with electrochemical detection 526(1990)475

Erythropoietin

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Escalol 507

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Esophageal carcinoma-associated proteins

Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis 527(1990)315

Essential oils

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Possible value of a liquid crystal stationary phase for the gas chromatographic study of aromatic constituents of essential oils 513(1990)311

Separation of alkanes in *Citrus* essential oils by on-line coupled high-performance liquid chromatography-high-resolution gas chromatography 514(1990)317

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Headspace gas chromatography with open-tubular columns for determining the evaporation rate of essential oils, perfumery compositions and perfumes 520(1990)169

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Esters

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Gas chromatography of homologous esters. XXXIV. Alkyl borate and boronate esters 550(1991)155

Estradiol

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Estriol

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Estrogens

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity

extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Estrone

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Ethambutol

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

Ethanol

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Comparison between ethanol and methanol for the reversed-phase high-performance liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Ethanolamine plasmalogens

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Etheno adducts

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Ethenoadenine

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-diphosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-monophosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Etheno adenosine 5'-triphosphate

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Ethers

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Ethinyl estradiol

Expert system for repeatability testing of high-performance liquid chromatographic methods 550(1991)257

Ethosuximide

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Ethoxylated alkylphenols

Chromatographic separation of surfactants. XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Ethoxy-1,2-phenylenediamine

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

Ethyl acetate

Headspace analysis of polar compounds in air 509(1990)107

Ethylbenzene

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Ethyl benzoate

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Ethyl bromide

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Ethyl chloroformate

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

10-Ethyl-10-deaza-aminopterin

High-performance liquid chromatographic method for the analysis of 10-ethyl-10-deaza-aminopterin and metabolites in plasma 529(1990)135

Ethyl(diethoxy)benzenes

Gas chromatographic-mass spectrometric identification of impurities in 1,2-diethoxybenzene 520(1990)149

O-Ethyl S-2-diisopropylaminoethyl methylphosphonothioate

Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151

Ethylene

On-line chromatography with capillary columns and temperature programming. Determination of traces of 2-butenes in 1-butene and analysis of a reformate 509(1990)33

N,N-Ethylenebis(2-aminobutan-1-ol)

Study of the stereochemistry of ethambutol using chiral liquid chromatography and synthesis 522(1990)195

Ethylenediamine

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Ethylenediaminephosphoramidates

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Ethylenediaminetetraacetato-chromium (III)

Anomalous bandspreading of ethylenediaminetetraacetato-chromium(III) ion in

reversed-phase high-performance liquid chromatography. An example of slow equilibrium kinetics 545(1991)123

Ethylene dimethacrylate

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

N,N'-1,2-Ethylenediylbis-L-cysteine diethyl ester

Separation and detection of oxidation products in Neuroilite raw material 550(1991)549

Ethylene glycol

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Ethylene oxide

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Ethyl fenthion

Gas-liquid chromatographic analysis of ethyl fenthion in tissues of native birds 508(1990)199

2-Ethylhexanoic acid

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

2-Ethylhexanol

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

Ethyl loflazepate

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Ethylmercury chloride

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Ethyl methacrylate-butyl methacrylate

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Etidocaine

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Etilefrine

High-performance liquid chromatographic determination of etilefrine in human plasma using combined solid-phase and organic solvent extraction and electrochemical detection 525(1990)210

Etomidate

High-performance liquid chromatographic determination of etomidate in plasma 529(1990)217

Sensitive and automated gas chromatographic method for the determination of etomidate in plasma samples 532(1990)150

Eugenol

Sensitive high-performance liquid chromatographic assay for the determination of eugenol in body fluids 525(1990)369

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Eupergit C

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

Eupergit C as a carrier for high-performance liquid chromatographic-based immunopurification of antigens and antibodies 510(1990)311

Eusolex 8020

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Exo- β -1,4-glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Explosives

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Capillary supercritical fluid chromatography of explosives. Investigations on the interactions between the analytes, the mobile phase and the stationary phase 521(1990)63

F**Factor VIII**

see Coagulation factors

Fatty acid methyl esters

Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202

Multivariate optimization of a gas-liquid chromatographic analysis of fatty acid methyl esters of blackcurrant seed oil 505(1990)385

Location of double bonds in polyunsaturated fatty acids by gas chromatography-mass spectrometry after 4,4-dimethyloxazoline derivatization 541(1991)89

Fatty acid methyl esters, cyclic

Isomer identification and gas chromatographic retention studies of monomeric cyclic fatty acid methyl esters 537(1991)329

Fatty acid polymers

Combination of adsorption and size-exclusion chromatography for the determination of fatty acid monomers, dimers and polymers 514(1990)37

Fatty acids

see also Carboxylic acids and Organic acids

Improved automated precolumn derivatization reaction of fatty acids with

bromomethylmethoxycoumarin as label 502(1990)423

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Identification of fatty acids longer than C₃₂ in a sulphate-reducing bacterium by reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 508(1990)275

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Identification of very long polyenoic acids as picolinyl esters by Ag⁺ ion-exchange high-performance liquid chromatography, reversed-phase high-performance liquid chromatography and gas chromatography-mass spectrometry 513(1990)344

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Combination of adsorption and size-exclusion chromatography for the determination of fatty acid monomers, dimers and polymers 514(1990)37

Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Chemiluminescence detection of free fatty acids by high-performance liquid chromatography with immobilized enzymes 516(1990)450

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Quantitative determination of free volatile fatty acids from dairy products on a Nukol capillary column 519(1990)369

Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89

Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235

Rapid analysis of non-esterified fatty acids as methyl esters from different biological specimens by gas chromatography after one-step esterification 526(1990)319

Separation and quantitation of long-chain free fatty acids in human serum by high-performance liquid chromatography 526(1990)331

Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209

Cellular fatty acids of *Bacteroides forsythus* 533(1990)141

Fatty acid contents of the yeast and mycelial phase of *Candida albicans* 533(1990)152

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Location of double bonds in polyunsaturated fatty acids by gas chromatography-mass spectrometry after 4,4-dimethylloxazoline derivatization 541(1991)89

Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography 543(1991)81

Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography-mass spectrometry of the picolinyl ester derivatives 543(1991)257

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Fatty acids, chlorinated phenol conjugates

Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85

Fatty acids, volatile

Trace determination of lower volatile fatty acids in sediments by gas chromatography with chemically bonded FFAP columns 511(1990)317

Fatty alcohol ethoxylates

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Fatty alcohols

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Felbinac

Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186

Feline allergen

Immobilized metal ion affinity chromatography for the purification of *Fel d I*, a cat major allergen, from a house-dust extract 512(1990)177

Felodipine

Enantioselective determination of felodipine and other chiral dihydropyridine calcium entry blockers in human plasma 528(1990)343

Felypressin

Liquid chromatographic determination of felypressin using a column-switching technique and post-column derivatization 521(1990)141

Animal test or chromatography? Validated high-performance liquid chromatographic assay

as an alternative to the biological assay for ornipressin 548(1991)335

Fenbufen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Simultaneous high-performance liquid chromatographic determination of ciprofloxacin, fenbufen and felbinac in rat plasma 530(1990)186

Fenitrothion

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Fenoprofen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Stereoselective analysis of fenoprofen and its metabolites 534(1990)127

Fenoxon sulphone

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Fenoxon sulphoxide

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Fenpropathrin

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Fenthion

High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406

Ferrioxamines

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Simultaneous determination of desferrioxamine and ferrioxamine by high-performance liquid chromatography with amperometric detection 527(1990)481

Ferrocene

Electrochemical detection system for supercritical fluid chromatography 519(1990)256

Ferroceneboronic acid

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Fertilizers

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Ferulic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

α -Fetoprotein

Analytical- and preparative-scale separation of molecular variants of α -fetoprotein by anion-exchange chromatography on MonobeadTM resins 525(1990)59

Fibrinogen-converting enzyme

Isolation of a fibrinogen-converting enzyme ficozyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312

Fibroblast growth factor

Affinity chromatography of fibroblast growth factors on substituted polystyrene 526(1990)35

Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393

Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417

Fibroblast growth factor, basic

High-performance affinity chromatography of basic fibroblast growth factor on polystyrene

sulphonate resins modified with serine
510(1990)141

Fibronectin

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Ficozyme

Isolation of a fibrinogen-converting enzyme ficozyme from the venom of *Bothrops asper* by one-step affinity chromatography on Blue Sepharose 523(1990)312

Filamentous haemagglutinin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

FK-506

Determination of a novel potent immunosuppressant (FK-506) in rat serum and lymph by high-performance liquid chromatography with chemiluminescence detection 530(1990)212

FLA 981

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Flavanols

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Flavanones

Optical resolution of flavanones by high-performance liquid chromatography on various chiral stationary phases 514(1990)147

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Flavanones, polyhydroxylated

Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287

Flavin-adenine dinucleotide

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Flavins

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Flaviviruses

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Flavones

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyano-silica column and their determination 514(1990)334

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils 549(1991)440

Flavones, methoxylated

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Flavonoid aglycones

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Flavonoid glucosides

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Separation of flavonoid glucosides from their galactosidic analogues by thin-layer chromatography 540(1991)469

Flavonoid polyphenols

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Flavonoids

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Determination of nine flavonoids and coumarins in licorice root by high-performance liquid chromatography 513(1990)247

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Assay of hydroxyfarrerol in biological fluids 535(1990)255

High-performance liquid chromatography of red fruit anthocyanins 537(1991)101

Isocratic column liquid chromatographic separation of a complex mixture of epicuticular flavonoid aglycones and intracellular flavonoid glycosides from *Cistus laurifolius* L. 537(1991)453

Studies on the preparative capability of the horizontal flow-through coil planet centrifuge and high-performance liquid chromatography in the separation of polar compounds from *Oxytropis ochrocephala* Bunge 538(1991)219

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Computer-aided optimization of high-performance liquid chromatographic analysis of flavonoids from some species of the genus *Althaea* 550(1991)71

Flavonol glycosides

Isocratic column liquid chromatographic separation of a complex mixture of epicuticular flavonoid aglycones and intracellular flavonol glycosides from *Cistus laurifolius* L. 537(1991)453

Flavonol-3-O-glycosides

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Flavonols

Separation of peracetylated flavanoid and flavonoid polyphenols by normal-phase high-performance liquid chromatography on a cyanosilica column and their determination 514(1990)334

Fleroxacin

Determination of the new fluoroquinolone fleroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluazifop-P-butyl

Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Fluconazole

Rapid determination of serum levels of a new antifungal agent, fluconazole, by high-performance liquid chromatography 529(1990)223

Fludiazepam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Flufenoxoron

Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442

Flumazenil

High-performance liquid chromatographic assay to determine midazolam and flumazenil simultaneously in human plasma 530(1990)177

Flumequine

Simple and rapid method for the determination of flumequine and oxolinic acid in salmon (*Salmo salar*) plasma by high-performance liquid chromatography and fluorescence detection 530(1990)452

Automated column-switching high-performance liquid chromatographic determination of flumequine and oxolinic acid in extracts from fish 532(1990)363

Flumetralin

Gas chromatographic determination of flumetralin in tobacco 539(1991)237

S-Flunoxaprofen

Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated S-flunoxaprofen as a chiral derivatizing agent 528(1990)55

Fluoranthene

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

9-Fluorenylmethylchloroformate

Amino acid analysis by high-performance liquid chromatography with methanesulfonic acid hydrolysis and 9-fluorenylmethylchloroformate derivatization 514(1990)227

Separation of amphetamines by supercritical fluid chromatography 515(1990)385

Fluorescamine

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187

Fluorescein

Indirect fluorescence detection of sugars separated by capillary zone electrophoresis with visible laser excitation 515(1990)639

Fluoride

Use of β -diketonate anions as eluent in non-suppressed ion chromatography. Acetylacetonate eluent for the separation of fluoride and chloride 523(1990)257

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Ion chromatography for the analysis of household consumer products 546(1991)351

Study of the fluoride adsorption characteristics of porous microparticulate zirconium oxide 549(1991)43

Fluoroacetic acid

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Fluoroamino acids

Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115

3'-Fluoro-3'-deoxythymidine

Determination of 3'-azido-3'-deoxythymidine, 2',3'-dideoxycytidine, 3'-fluoro-3'-deoxythymidine and 2',3'-dideoxyinosine in biological samples by high-performance liquid chromatography 534(1990)101

5-Fluoro-2'-deoxyuridine monophosphate

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

(\pm)-9-Fluoro-6,7-dihydro-8-(4-hydroxy-1-piperidyl)-5-methyl-1-oxo-1*H*,5*H*-benzo[*i,j*]-quinolizine-2-carboxylic acid

High-performance liquid chromatographic procedure for the determination of rat plasma concentrations of a new antibacterial agent, (\pm)-9-fluoro-6,7-dihydro-8-(4-hydroxy-1-piperidyl)-5-methyl-1-oxo-1*H*,5*H*-benzo[*i,j*]-quinolizine-2-carboxylic acid, for topical use 526(1990)235

7-Fluoro-4-nitrobenzo-2-oxa-1,3-diazole

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Fluoropyrimidines

High-performance liquid chromatography with chemiluminescence detection of serum levels of pre-column derivatized fluoropyrimidine compounds 530(1990)57

Fluoroquinolone

Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide

metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluoroquinolone N-oxide

Determination of the new fluoroquinolone feroxacin and its N-demethyl and N-oxide metabolites in plasma and urine by high-performance liquid chromatography with fluorescence detection 527(1990)91

Fluorosurfactant

Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544

5-Fluorouracil

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Stability-indicating high-performance liquid chromatographic method for the simultaneous determination of cisplatin and 5-fluorouracil in 0.9% sodium chloride for injection 528(1990)517

5'-Fluorouracil

Rapid and simple high-performance liquid chromatographic assay for 5'-fluorouracil in plasma for bioavailability studies 532(1990)411

5-Fluorouridine

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

5-Fluorouridine triphosphate

Measurement of 5-fluorouracil and its active metabolites in tissue 507(1990)259

Fluparoxan

Determination of fluparoxan (GR50360) in plasma by gas chromatography 527(1990)436

Fluvoxamine

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Folacins

Optimized high-performance liquid chromatographic procedure for the separation

and quantification of the main folacins and some derivatives. I. Chromatographic system 540(1991)207

Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91

Follicle-stimulating hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Folligen

Investigation of the chemical stability of (D-Phe⁶, Gln⁸) GnRH (1-9)-ethylamide (Folligen) by high-performance liquid chromatography 547(1991)121

Food Color Red No. 106

Purification of Food Color Red No. 106 (Acid Red) using high-speed counter-current chromatography 538(1991)149

Formaldehyde

High-performance liquid chromatographic determination of free formaldehyde in cosmetics preserved with Dowcicl 200 502(1990)193

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

Formate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Ion chromatography for the analysis of household consumer products 546(1991)351

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Formate dehydrogenase

Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103

Investigations of liquid-liquid partition chromatography of proteins 548(1991)3

Formazans

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Formic acid

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Formononetin

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Fosinopril

High-performance liquid chromatography of the drug fosinopril 507(1990)165

Freon-22

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Freons

Application of gas chromatography with electron-capture detection to trace analysis of halogenated compounds 509(1990)115

Fructose

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Fuel

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

Fulvic acids

Analysis of fulvic acids by ion-pair chromatography 547(1991)203

Fungicides

see Pesticides

Furans

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Furazolidone

High-performance liquid chromatographic determination of furazolidone in Atlantic salmon (*Salmo salar*) tissue 528(1990)495

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

G

Gabapentin

Determination of gabapentin in plasma and urine by capillary column gas chromatography 529(1990)167

Galactolipids

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307

Galactonic acid

Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321

Galactose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

α -D-Galactosidase

Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365

 β -Galactosidase

Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89

Evaluation of kinetic models for biospecific adsorption and its implications for finite bath and column performance 548(1991)25

 α -D-Galactosides

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

 β -D-Galactosides

Immobilized mucin : an affinity matrix for the isolation of winged bean acidic and basic lectins 503(1990)272

Galactosylceramide

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Galanin

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

***Galega* species**

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Gallamine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Gallic acid

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Gallium

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as

8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Gallopamil

Determination of gallopamil in serum by gas chromatography-mass spectrometry 525(1990)183

Gammacerane

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Gasoline

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Enhanced possibilities for identification by the use of series-coupled capillary gas chromatographic columns. I. General exposition and application of the retention index concept 520(1990)3

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Gelsolin

Affinity chromatography of human plasma gelsolin with polyphosphate compounds on immobilized Cibacron Blue F3GA 526(1990)397

Genistein

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Gentamicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Gentisaldehyde

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gentisyl alcohol

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gentisyl quinone

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Gibberellins

Gradient C_{18} high-performance liquid chromatography of gibberellins 543(1991)471

Ginkgolides

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Fast development of a robust high-performance liquid chromatographic method for *Ginkgo biloba* based on computer simulation 550(1991)39

Ginsenosides

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

Simultaneous determination of ginsenosides and saikosaponins by high-performance liquid chromatography 507(1990)327

Gizzerosine

o-Phthalaldehyde post-column derivatization for the determination of gizzerosine in fish meal by high-performance liquid chromatography 515(1990)527

Glimepiride

Simultaneous determination of the sulphonylurea glimepiride and its metabolites in human serum and urine by high-performance liquid chromatography after pre-column derivatization 526(1990)497

 γ -Globulin

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Glucagon

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

 β -1,4-Glucanase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercoararium* 521(1990)301

 β -1,3-Glucans

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

D-Glucitol

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Glucoamylase

High-performance liquid chromatography for the assessment of glucoamylase, immobilized on metallic membranes 536(1991)107

Glucocorticoid receptor

One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

Gluconic acid

Monitoring and purification of gluconic and galactonic acids produced during fermentation of whey hydrolysate by *Gluconobacter oxydans* 507(1990)321

4-O-(β -D-Glucopyranosyl-6-sulphate)gallic acid

Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254

Glucose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531

Gas-liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Analysis of Palatinin® (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Glucose oxidase

Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245

Glucose-6-phosphate dehydrogenase

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Combination of polymer-bound charged groups and affinity ligands for extraction of enzymes by partitioning in aqueous two-phase systems 523(1990)119

Glucose telomers

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Glucose transporter

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Glucose utilization inhibitor

Isolation of an additional inhibitor of glucose utilization in renal insufficiency: pseudouridine 528(1990)178

 β -D-Glucosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Glucosides

Analytical and preparative high-performance liquid chromatographic systems for the separation of an anomeric mixture of 4-O-(D-glucopyranosyl)gallic acid 518(1990)254

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Glucosinolates

Rapid gas chromatographic determination of volatile degradation products of glucosinolates in rapeseed oil 502(1990)167

Glucosylceramide

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Glucuronides

Direct determination of the antihypertensive agent Cromakalim and its major metabolites in human urine by high-performance liquid chromatography 515(1990)597

Glutamic acid

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Glutamine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Rapid high-performance liquid chromatographic determination of γ -aminobutyric acid and some other amino acids: application to rat brain 532(1990)438

γ -Glutamylcysteine synthetase

Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

γ -L-Glutamyl-L-dihydroxyphenylalanine

Method for the determination of γ -L-glutamyl-L-dihydroxyphenylalanine and its major metabolites L-dihydroxyphenylalanine, dopamine and 3,4-dihydroxyphenylacetic acid by high-performance liquid chromatography with electrochemical detection 528(1990)43

Glutarate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Glutathione

Application of high-performance thin-layer chromatography-fluorescence densitometry to the simultaneous determination of reduced and oxidized glutathione 502(1990)230

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Glutathione synthetase

Assay of γ -glutamylcysteine synthetase and glutathione synthetase in erythrocytes by high-performance liquid chromatography with fluorimetric detection 530(1990)122

Glutathione transferases

Selective elution of soluble rat liver glutathione transferases from a glutathione-Sepharose affinity column 530(1990)263

Glutethimide

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Glyceraldehyde 3-phosphate dehydrogenase

Investigation of liquid phase cooperative binding interactions on the capacity of insoluble affinity adsorbents 539(1991)245

Glycerides

Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555

Glycerol

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Determination of glycerol in foods by high-performance liquid chromatography with fluorescence detection 541(1991)265

Glycerol dehydrogenase

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Glycerol enol ethers

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Glycerolipids

Thin-layer and high-performance liquid chromatographic separation of glycerolipid subclasses as benzoates. Derivatives of ether and ester analogues of phosphatidylcholine, phosphatidylethanolamine and platelet activating factor 508(1990)382

Glyceryl dinitrates

Simultaneous determination of glyceryl trinitrate and its two dinitrate metabolites in plasma and tissues by capillary gas chromatography 534(1990)196

Glyceryl trinitrate

Simultaneous determination of glyceryl trinitrate and its two dinitrate metabolites in plasma and tissues by capillary gas chromatography 534(1990)196

Glycidyl methacrylate

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Glycine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis 540(1991)343

Glycoalkaloids

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Glyco-conjugates

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Glycol ethers

Application of multidimensional gas chromatography-mass spectrometry to the determination of glycol ethers in air 522(1990)303

Glycolic acid

Improved high-performance liquid chromatographic determination of urinary glycolic acid 532(1990)130

Glycolipids

Analytical and preparative separation of glucosylceramide and galactosylceramide by borate-impregnated silica gel chromatography 513(1990)379

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

N-Glycolylneuraminic acid

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

Glycopeptides

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Rapid analysis of membrane glycopeptides by gel permeation high-performance liquid chromatography 528(1990)65

Interfacing microbore and capillary liquid chromatography to continuous-flow fast atom bombardment mass spectrometry for the analysis of glycopeptides 529(1990)265

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

Glycoprotein hormones

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Glycoproteins

Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus 502(1990)59

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Immobilized metal ion affinity chromatography for the purification of *Fel d I*, a cat major allergen, from a house-dust extract 512(1990)177

High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments

containing residues of aromatic amino acids or cysteine 512(1990)325

Isolation and purity determination of a glycoprotein elicitor from wheat stem rust by medium-pressure liquid chromatography 521(1990)187

Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239

Purification of the glycoprotein glucose oxidase from *Penicillium amagasakiense* by high-performance liquid chromatography 521(1990)245

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Dihydrotestosterone binding capacity of androgen-binding protein in tissue extract using high-performance size exclusion chromatography 526(1990)186

Purification of myelin-associated glycoprotein from calf brain using high-performance liquid chromatography 526(1990)535

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

High-performance anion-exchange chromatographic study of desialylated human α_1 -acid glycoprotein variants. Development of a fractionation method for the protein slow variants 539(1991)405

Separation of carbohydrate-mediated microheterogeneity of recombinant human erythropoietin by free solution capillary electrophoresis. Effects of pH, buffer type and organic additives 542(1991)459

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Glycosaminoglycans

Isolation and characterization of proteoglycans from different tissues 521(1990)311

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Glycosides

Lipophilic character of cardiac glycosides. R_M values as lipophilicity parameters 504(1990)163

Chromatography of cardiac glycosides 531(1990)215

Gas chromatographic-mass spectrometric separation and characterization of methyl trimethylsilyl monosaccharides obtained from naturally occurring glycosides and carbohydrates 547(1991)299

Glycosides, iridoid

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Glycosyl ceramides

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Glycuronic acids

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

N-Glycyl-1,2-ethylenediamine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Glycyrrhetic acid

Determination of glycyrrhetic acid in human serum by high-performance liquid chromatography with ultraviolet detection 530(1990)447

Glycyrrhetic acid

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Separation of 18 α - and 18 β -glycyrrhetic acid by high-performance thin-layer chromatographic densitometry 543(1991)479

Glycyrrhizic acid

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Glycyrrhizin

Determination of three active principles in licorice extract by reversed-phase high-performance liquid chromatography 542(1991)521

Glyphosate

High-performance liquid chromatographic determination of the herbicide glyphosate and its metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411

Gold

Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography 517(1990)67

Gonadotropin

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

[D-Phe⁶]-Gonadotropin-releasing hormone

Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

Gonadotropin-releasing hormone receptors

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

GR50360

Determination of fluparoxan (GR50360) in plasma by gas chromatography 527(1990)436

GR 50360 A

Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506

Grisorixin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Grob test mixture

High-precision sampling of sub-nanogram, low-parts-per-billion solutes from liquids using the dynamic solvent effect 511(1990)271

Growth factors

High-performance affinity chromatography of basic fibroblast growth factor on polystyrene sulphonate resins modified with serine 510(1990)141

Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393

Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Growth hormone

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Isolation and characterization of recombinant eel growth hormone expressed in *Escherichia coli* 515(1990)483

Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Determination of pituitary and recombinant human growth hormone molecular weights by modern high-performance liquid chromatography with low angle laser light scattering detection 539(1991)91

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

Characterization of recombinant eel growth hormone 547(1991)131

Guaiacol

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Guaianolides

Dünnschichtchromatographie von Guaianoliden des Unterstammes Centaureinae 505(1990)417

Guanidines

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Guanidino compounds

High-performance liquid chromatographic determination of guanidino compounds by automated pre-column fluorescence derivatization 506(1990)279

Determination of guanidino compounds by anion-exchange chromatography and amperometric detection 526(1990)355

Guanine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Guanosine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Guanosine 5'-monophosphate

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Gypsum

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})-\text{H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

H

H-acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Haemagglutinin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Haematite

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Haementin

Purification and characterization of hementin, a fibrinogenolytic protease from the leech *Haementeria ghilianii* 502(1990)359

Haemoglobin

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemogloglobin 512(1990)291

Application of high-performance liquid chromatography in establishing an accurate index of blood glucose control 515(1990)531

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Haemoglobin F

Efficient method of haemoglobin F enrichment in adult haemolysate for determination of the γ -chain isoforms by high-performance liquid chromatography 533(1990)63

Haemoglobin, glycosylated

Centrifugal affinity chromatography
510(1990)205

Haemoglobin, pyridoxylated

High-performance liquid chromatographic
evaluation of pyridoxyl 5'-phosphate hemoglobin
derivatives produced by different reduction
procedures 532(1990)55

Hafnium (IV)

Thin-layer chromatographic behaviour and
separation of zirconium(IV) and hafnium(IV) on
silica gel in mineral acid-hydrogen peroxide
media 539(1991)169

Halides

Use of cyclodextrins in the isotachophoretic
determination of various inorganic anions
518(1990)189

Haloalkanes

Analysis of haloalkanes on wide-bore capillary
columns of different polarity connected in series
522(1990)329

Halobenzenes

Liquid chromatography of liquid substances
characterized by limited solubility in the eluent
509(1991)157

Halofantrine

Fluorescence detection of the enantiomers of
halofantrine at picomole levels using chiral
high-performance liquid chromatography
519(1990)387

Comparison of a new ovomucoid and a second-
generation α_1 -acid glycoprotein-based chiral
column for the direct high-performance liquid
chromatography resolution of drug enantiomers
545(1991)43

Halofuginone

Determination of halofuginone in feedstuffs by
the combination of capillary isotachopheresis and
capillary zone electrophoresis in a column-
switching system 545(1991)307

Halogenated alkylamines

Simple procedure involving derivatisation and
thin-layer chromatography for the estimation of
trace levels of halogenated alkylamines and their
hydrolysis products in drug substances and
formulations 543(1991)211

Halogenated benzenes

Chemically modified polymeric resins for high-
performance liquid chromatography 522(1990)95

Halogenated compounds

Application of gas chromatography with electron-
capture detection to trace analysis of halogenated
compounds 509(1990)115

Haloperidol

High-performance liquid chromatographic
procedure for the determination of clozapine,
haloperidol, droperidol and several
benzodiazepines in plasma 525(1990)218

Simultaneous determination of haloperidol and
reduced haloperidol by gas chromatography using
a megabore column with electron-capture
detection: application to microsomal oxidation of
reduced haloperidol 529(1990)182

High-performance liquid chromatography of
droperidol in whole blood 532(1990)181

High-performance liquid chromatographic
analysis of haloperidol and hydroxyhaloperidol in
plasma after solid-phase extraction 532(1990)193

Halothane

High-performance liquid chromatographic
method for the direct determination of the
volatile anaesthetics halothane, isoflurane and
enflurane in water and in physiological buffer
solutions 518(1990)250

Analytical isotachopheresis in biological
monitoring of exposure to industrial chemicals
(Review) 545(1991)369

Haloxazolam

Collection of analytical data for benzodiazepines
and benzophenones. Appendix 538(1991)277

Haptens

Purification of anti-paraquat monoclonal
antibodies by affinity chromatography on
immobilised hapten 516(1990)433

Large-scale purification of haptened
oligonucleotides using high-performance liquid
chromatography 536(1991)85

Haptoglobin

Rapid high-performance liquid chromatographic
protein quantitation of purified recombinant
Factor VIII containing interfering substances
512(1990)213

Apparatus for coupled high-performance liquid
chromatography and capillary electrophoresis in
the analysis of complex protein mixtures
515(1990)659

Harman

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Heat shock protein

One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

Helium head pressure carbon dioxide

Comparison of helium head pressure carbon dioxide and pure carbon dioxide as mobile phases in supercritical fluid chromatography 514(1990)309

Heparin

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sephacrose 521(1990)179

Heparin cofactor II

Immobilization of dermatan sulphate on a silica matrix and its possible use as an affinity chromatography support for heparin cofactor II purification 539(1991)289

Purification of heparin cofactor II from human plasma 539(1991)493

Hepatitis B-virus surface antigens

High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25

Heptadecyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Heptafluorobutyrylimidazole

Gas chromatographic determination of 2-ethylhexanol and 2-ethylhexanoic acid as derivatives suitable for electron-capture and nitrogen-phosphorus detection after single reaction with heptafluorobutyrylimidazole 509(1990)383

Heptanediamine

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Herbicides

see Pesticides

Herbicolin A

Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437

Herbicolin B

Rapid identification and determination of herbicolin A and B by high-performance liquid chromatography 502(1990)437

Herniarin

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Heroin

Determination of heroin and some common adulterants by capillary gas chromatography 538(1991)269

Hesperetin

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Heteroaromatic compounds

Correlation between chemical structure of non-congeneric solutes and their retention on polybutadiene-coated alumina 506(1990)3

S-Heterocyclic compounds

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Hexadecane

Use of radio-gas chromatography and tritium label to optimize derivatization procedures 530(1990)1

Hexadecylphosphocholine

Quantitation of hexadecylphosphocholine by high-performance thin-layer chromatography with densitometry 525(1990)85

1,6-Hexamethylenediamine

Chromatographic determination of amines in biological fluids with special reference to the

biological monitoring of isocyanates and amines. IV. Determination of 1,6-hexamethylenediamine in human urine using capillary gas chromatography and selective ion monitoring 516(1990)405

Hexanal

Determination of volatile aliphatic aldehydes in the headspace of heated food oils by derivatization with 2-aminoethanethiol 547(1991)291

Hexazinone

Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223

Hexestrol

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Hexobarbital

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195

High-mobility group proteins

Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39

Hippuric acid

High-performance liquid chromatographic analysis of hippuric acid in human blood plasma 532(1990)45

Hirudins

Isolation and purification of novel hirudins from the leech *Hirudinaria manillensis* by high-performance liquid chromatography 530(1990)273

Histamine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

Histamine H₁-receptor blockers

Chromatography of histamine H₁- and H₂-receptor blockers in biosamples 531(1990)369

Histamine H₂-receptor blockers

Chromatography of histamine H₁- and H₂-receptor blockers in biosamples 531(1990)369

Histidine

Isotachopheresis with electroosmotic flow: open versus closed systems 537(1991)429

Histones

Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47

Reactivity and adduct formation of a polyaromatic hydrocarbon, 7-bromomethylbenz[a]anthracene, with chromatin histone proteins 528(1990)25

Hitec E580

Direct determination of corrosion inhibitor in aviation fuel by a column-switching technique using gel-permeation chromatography 508(1990)259

Holotoxin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Homatropine

Chiral separations of atropine and homatropine on an α_1 -acid glycoprotein-bonded stationary phase 506(1990)579

Homocitrulline

Determination of citrulline and homocitrulline by high-performance liquid chromatography with post-column derivatization 532(1990)37

Homocysteine

High-performance liquid chromatographic determination of aliphatic thiols with arylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Homohopanes

Tandem mass spectrometry — an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Homoserine dehydrogenase

Use of dye pseudo-affinity chromatography in the purification of homoserine dehydrogenase 539(1991)507

Homovanillic acid

Determination of plasma homovanillic acid by column liquid chromatography with electrochemical detection 525(1990)419

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

Hopane

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Hopantenic acid

Simultaneous determination of pantothenic acid and hopantenic acid in biological samples and natural products by gas chromatography-mass fragmentography 525(1990)255

Hormone receptors

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Hormones

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Electrochemical detection for high-performance liquid chromatography using a Kel-F wax-graphite electrode 514(1990)171

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Method optimization in capillary zone electrophoretic analysis of hGH tryptic digest fragments 516(1990)99

Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Hostanox SE-10

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

HT-2 toxin

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Human chorionic gonadotropin

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Human serum albumin

see Albumin

Humic acids

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Characterization of humified compounds by extraction and fractionation on solid polyvinylpyrrolidone 509(1990)141

Determination of molecular size distributions of humic acids by high-performance size-exclusion chromatography 541(1991)419

Humic substances

Characterization of humic substances by capillary isotachopheresis 545(1991)461

Humulones

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Hyaluronic acid

Analysis of hyaluronic acid in synovial fluid by reversed-phase liquid chromatography 526(1990)530

Hydantoins

Influence of uncharged mobile phase additives on retention and enantioselectivity of chiral drugs using an α_1 -acid glycoprotein column 519(1990)271

Hydralazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrazine

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrazine derivatives

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Hydrazine hydrochloride

Determination of hydrazine in hydralazine by capillary gas chromatography with nitrogen-selective detection after benzaldehyde derivatization 511(1990)303

Hydrocarbons

Adsorption effect on the retention volume of hydrocarbons and dialkyl ethers in gas-liquid chromatography using a polar stationary phase and silica gel support 503(1990)25

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Fractionation of lemon-peel oil by semi-preparative supercritical fluid chromatography 505(1990)237

Quantitative structure-type analysis of hetero compounds-hydrocarbon mixtures. Analysis of S-heterocyclics and ketones from brown coal tars 509(1990)27

Gas chromatographic analysis of light hydrocarbons using aluminium oxide micro-packed columns 509(1990)59

Flame infrared emission-flame ionization detector for gas chromatography 513(1990)21

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Comparison of cuticular hydrocarbon profiles of fire ants *Solenopsis richteri* from the same colony, using capillary column gas chromatography with pattern recognition 517(1990)95

Use of chromatographic models for computerized optimization of coupling-point pressure in dual-column gas chromatography 517(1990)161

Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21 518(1990)53

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Radiofrequency detector for gas chromatography 520(1990)97

Chromatographic study of the interactions of hydrocarbons with cyclodextrins and their derivatives in the gas-solid system 520(1990)105

Peculiarities of aromatic hydrocarbon retention in normal-phase high-performance liquid chromatography with eluents containing halide derivatives 520(1990)315

Aromatic ring-type analysis of complex hydrocarbon mixtures by high-performance liquid chromatography with photodiode-array detection and curve resolution 520(1990)383

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Application of a hydrogen storage alloy to the determination of trace impurities in high-purity hydrogen by gas chromatography. Group analysis of C₁, C₂ and C₃ hydrocarbons 541(1991)75

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Gas phase retention volume behavior of organic compounds on Carbotrap graphitized carbon 547(1991)488

Selectivity of carbon packing materials in comparison with octadecylsilyl- and pyrenylethylsilylsilica gels in reversed-phase liquid chromatography 549(1991)29

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Chemical class separation of coal liquids by high-performance liquid chromatography on a semi-preparative, phosphoric acid-modified amino-bonded-phase column 550(1991)609

Hydrocarbons, chlorinated

Simple device for the determination of volatile chlorinated hydrocarbons in water by gas chromatography 509(1990)111

Hydrocarbons, halogenated

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Gas chromatographic identification of complex mixtures of halomethanes and haloethanes by using the correlation between their retention and vapour pressure 537(1991)305

Hydrochlorothiazide

Sensitive liquid chromatographic method for the determination of hydrochlorothiazide in human plasma 532(1990)168

Hydrocortisone

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Hydrogen

Value of breath hydrogen test in detection of hypolactasia in patients with chronic diarrhoea 530(1990)102

Hydrogen chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Hydrogen cyanide

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Hydrogen peroxide

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid-hydrogen peroxide media 539(1991)169

Hydroperoxides

Analysis of thymidine hydroperoxides by post-column reaction high-performance liquid chromatography 504(1990)191

Application of supercritical fluid chromatography and supercritical fluid extraction to the measurement of hydroperoxides in foods 515(1990)555

Hydrophobic compounds

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Hydroquinone

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by

capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

α -Hydroxy acids

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

2-Hydroxy-3-aminophenazine

Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375

10-Hydroxyamitriptyline

Enantiomer analysis of *E*- and *Z*-10-hydroxyamitriptyline in human urine 528(1990)163

4-Hydroxyanisole

Measurement of 4-hydroxyanisole in serum by direct injection high-performance liquid chromatography 534(1990)267

Hydroxyapatite

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Separation of membrane protein-sodium dodecyl sulphate complexes by high-performance liquid

chromatography on hydroxyapatite 515(1990)399

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563

***p*-Hydroxybenzaldehyde**

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

***p*-Hydroxybenzoic acid**

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

3-Hydroxybenzo[*a*]pyrene

Analysis of 3-hydroxybenzo[*a*]pyrene by high-performance liquid chromatography using a post-column method 532(1990)155

α -Hydroxybetaxolol

Determination of betaxolol and its metabolites in blood and urine by high-performance liquid chromatography with fluorimetric detection 534(1990)161

D-3-Hydroxybutyrate dehydrogenase

Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279

10-Hydroxycarbazepine

Simple and rapid micro-analytical high-performance liquid chromatographic technique for the assay of oxcarbazepine and its primary active metabolite 10-hydroxycarbazepine 528(1990)473

Hydroxycarboxylic acids

Derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 547(1991)307

Hydroxycholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid

chromatographic analysis using benzylation
547(1991)105

***trans*-3'-Hydroxycotinine**

Nicotine metabolites in the urine of smokers
525(1990)193

Hydroxiclofenac

High-performance liquid chromatographic method for the determination of diclofenac and its hydroxy metabolites in human plasma and urine 528(1990)487

20-Hydroxyecdysone

Reversed-phase high-performance liquid chromatographic separation of 5 β ,20-dihydroxyecdysone and 20-hydroxyecdysone on a β -cyclodextrin-bonded stationary phase
547(1991)443

Hydroxyeicosatetraenoates

Resolution of enantiomers of 19-hydroxyeicosatetraenoate and 18-hydroxyeicosatetraenoate by chiral phase high-performance liquid chromatography of naphthoyl ester derivatives 526(1990)525

Hydroxyeicosatetraenoic acids

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

Separation of ¹²⁵I-labelled derivatives of 5-hydroxy-6,8,11,14-eicosatetraenoic acid
543(1991)307

Hydroxyfarrerol

Assay of hydroxyfarrerol in biological fluids
535(1990)255

Hydroxy fatty acids

Separation of hydroxylated polyenoic fatty acid enantiomers on Pirkle-type chiral phase high-performance liquid chromatographic columns
520(1990)391

4'-Hydroxyfenpropfen

Stereoselective analysis of fenpropfen and its metabolites 534(1990)127

2-Hydroxygenistein

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Hydroxyhaloperidol

High-performance liquid chromatographic analysis of haloperidol and hydroxyhaloperidol in plasma after solid-phase extraction 532(1990)193

(-)-6(S)-Hydroxy-4(R)-(1-hydroxy-1-methyl-ethyl)-1-cyclohexene-1-ethanol

High-performance liquid chromatographic determination of the mucoregulatory drug CO/1408 in rat plasma and urine 507(1990)227

2-Hydroxyiminomethyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride

Determination of the oximes 2-hydroxyiminomethyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxymethyl)]imidazolium chloride and 1-[1-(3-butynyl-oxymethyl)]-2-hydroxyiminomethyl-3-methylimidazolium chloride in plasma by high-performance liquid chromatography
527(1990)361

5-Hydroxyindoleacetic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection
528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

α -Hydroxyisobutyric acid

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Hydroxyketorolac

Simultaneous determination of ketorolac and its hydroxylated metabolite in plasma by high-performance liquid chromatography
534(1990)241

Hydroxyl aromatics

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Changes in the enthalpy and entropy of hydroxyl aromatics in reversed-phase liquid chromatography with β -cyclodextrin in the mobile phase 537(1991)61

Hydroxyl radical

High-performance liquid chromatographic detection of hydroxylated benzoic acids as an indirect measure of hydroxyl radical in heart: its possible link with the myocardial reperfusion injury 536(1991)273

Hydroxymandelic acids

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Hydroxymedifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

4-Hydroxy-3-methoxyallylbenzene

Sensitive high-performance liquid chromatographic assay for the determination of eugenol in body fluids 525(1990)369

4-Hydroxy-3-methoxymandelic acid

Determination of urinary vanillylmandelic acid by direct injection and coupled-column chromatography with electrochemical detection 527(1990)11

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Simultaneous determination of vanillylmandelic acid, homovanillic acid and creatinine in urine by reversed-phase ion-pair chromatography 530(1990)418

3-Hydroxymethyl-5-aziridinyl-1-methyl-2-(1H-indole-4,7-dione)-prop- β -en- α -ol

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Hydroxymethyldihydropterine pyrophosphokinase

Improved methods for the purification of enzymes of the folate pathway in *Escherichia coli*. I. Chromatographic methods 523(1990)53

3-Hydroxy-3-methylglutaric acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

3-Hydroxymethylpyridine

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

4-Hydroxynonenal

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Hydroxyoxime

Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsalicylaldehyde oximes 503(1990)442

Hydroxypentadecadiene

Stereochemical analysis of a leukotriene related hydroxypentadecadiene using a chiral high-performance liquid chromatography column and diode array detection 542(1991)189

(R)-4-[3-[(2-Hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride

High-performance liquid chromatographic measurement of (R)-4-[3-[(2-hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride (LY195448) and its *p*-hydroxy metabolite in human plasma and urine 527(1990)473

Hydroxyphenprocoumon

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Analysis of phenprocoumon and its hydroxylated and conjugated metabolites in human urine by high-performance liquid chromatography after solid-phase extraction 530(1990)347

Hydroxyphenylacetic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

5-(*p*-Hydroxyphenyl)-5-phenylhydantoin

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine by high-performance liquid chromatography 535(1990)279

p-Hydroxyphenyl-phenylhydantoin glucuronide

Direct high-performance liquid chromatographic analysis of *p*-hydroxyphenyl-phenylhydantoin glucuronide, the final metabolite of phenytoin, in human serum and urine 526(1990)581

4-Hydroxypropranolol

Simultaneous determination of propranolol and 4-hydroxypropranolol enantiomers after chiral derivatization using reversed-phase high-performance liquid chromatography 527(1990)351

(S)-2-Hydroxypropyl- β -cyclodextrin

(S)-2-Hydroxypropyl- β -cyclodextrin, a new chiral stationary phase for reversed-phase liquid chromatography 513(1990)181

3-Hydroxypyridin-4-ones

Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171

3 α -Hydroxysteroid dehydrogenase

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

3-Hydroxy-4',5,6,7-tetramethoxyflavone

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

5-Hydroxytryptamine

see Serotonin

5-Hydroxytryptophan

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Hydroxy-uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

Hyoscyamine

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Hypoxanthine

Determination of purine nucleosides and their bases by high-performance liquid

chromatography using co-immobilized enzyme reactors 528(1990)91

Plasma and blood assay of xanthine and hypoxanthine by gas chromatography-mass spectrometry: physiological variations in humans 529(1990)93

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Hypoxanthine, peptidyl derivatives

High-performance liquid chromatographic determination in human plasma of a new immunomodulatory agent with a peptidyl-hypoxanthine structure (RM 06) 525(1990)471

I

Ibuprofen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Effect of $^2\text{H}_2\text{O}$ on the resolution of the optical isomers of ibuprofen on an α_1 -acid glycoprotein column 518(1990)277

Measurement of ibuprofen in human whole blood by reversed-phase ion-paired high-performance liquid chromatography using a pH-stable polymeric column 526(1990)246

High-performance liquid chromatographic determination of the stereoisomeric metabolites of ibuprofen 528(1990)395

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Ibutilide

Chiral separation of ibutilide enantiomers by derivatization with 1-naphthyl isocyanate and high-performance liquid chromatography on a Pirkle column 550(1991)621

Ignafos

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Imaging agents

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Imidazoles

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Imidazolines

Chromatographic data for pharmacological classification of imidazol(in)e drugs 550(1991)573

Imidazolium oximes

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Imine

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonsulvant agents 533(1990)248

Iminocarboxylic acids

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Iminodipeptides

Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency 527(1990)279

Imipramine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic

antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Immobilized enzymes

Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321

Immunoglobulins

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Centrifugal affinity chromatography 510(1990)205

Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Immobilized metal ion affinity chromatography for the purification of *Fel d 1*, a cat major allergen, from a house-dust extract 512(1990)177

Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

High-performance affinity chromatography of immunoglobulin E on a column of

dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing and high-performance size-exclusion chromatography 539(1991)177

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

A ten-residue fragment of an antibody (mini-antibody) directed against lysozyme as ligand in immunoaffinity chromatography 548(1991)235

Immunomodulators

Purification of immunomodulatory factors in human peripheral blood leukocytes 512(1990)139

Immunistimulants

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

Immunosuppressants

Determination of a novel potent immunosuppressant (FK-506) in rat serum and lymph by high-performance liquid chromatography with chemiluminescence detection 530(1990)212

Imuthiol

Determination of sodium diethyldithiocarbamate (Imuthiol) and its S-methyl metabolite by gas chromatography-mass spectrometry. Use of deuteromethyl iodide derivatization 534(1990)57

Indanol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Indapamide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Indigotine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Indium

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Indobufen

High-performance liquid chromatographic method for direct resolution of the indobufen enantiomeric components 520(1990)373

Indole-3-acetic acid

Chromatographic behaviour of aromatic acids in reversed-phase high-performance liquid chromatography 523(1990)227

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indoleacrylic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Indole alkaloids

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Indoleamines

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Detection and identification modes for the highly sensitive and simultaneous determination of various biogenic amines by coulometric high-performance liquid chromatography 515(1990)265

Optimal conditions for long-term storage of biogenic amines for subsequent analysis by column chromatography with electrochemical detection 518(1990)258

Indolelactic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indolepropionic acid

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Indoles

Direct injection of highly protein-bound compounds by column-switching high-performance liquid chromatography 527(1990)127

Determination of monoamines and indoles in amniotic fluid by high-performance liquid chromatography–electrochemical detection 528(1990)101

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric–electrochemical detection 528(1990)111

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Indomethacin

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Improved procedure for determination of indomethacin in plasma by capillary gas chromatography after solid-phase extraction 526(1990)210

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Indoquinone antitumour agent

Gradient high-performance liquid chromatographic assay for the determination of the novel indoloquinone antitumour agent E09 in biological specimens 532(1990)321

Inorganic acids

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Inorganic anions

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Environmental applications of ion chromatography (Review) 504(1990)211

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Reversed-phase ion-pair chromatography with indirect photometric detection of inorganic anions from residues of low explosives 517(1990)305

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Naphthalenesulfonates as mobile phases for anion-exchange chromatography using indirect photometric detection 542(1991)101

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Universal stationary phase for the separation of anions on suppressor-based and single-column ion chromatographic systems 546(1991)89

Anion–cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Principles and applications of ion-exclusion chromatography (Review) 546(1991)111

Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection 546(1991)151

Electrodialytic eluent generation and suppression. Ultralow background conductance suppressed anion chromatography 546(1991)159

Practical applications of solid-phase reagent conductivity detection in ion chromatography 546(1991)189

Separation of inorganic analyte anions on dye-coated stationary phases 546(1991)199

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

Optimization of detection sensitivity in the capillary electrophoresis of inorganic anions 546(1991)431

Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Inorganic cations

Anion-cation separations on a mixed-bed ion-exchange column with indirect photometric detection 546(1991)101

Inorganic ions

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Ion chromatography for the analysis of household consumer products 546(1991)351

Determination of organic acids in food samples by capillary electrophoresis 546(1991)423

Inorganic polyphosphates, cyclic

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Inosine

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Quantitation of adenosine, inosine and hypoxanthine in biological samples by microbore-column isocratic high-performance liquid chromatography 536(1991)265

Inositol phosphates

Ion-pair chromatography of inositol polyphosphates with N-methylimidipramine 528(1990)143

High-performance liquid chromatographic separation of inositol phosphate isomers employing a reversed-phase column and a micellar mobile phase 529(1990)65

Serial separation of inositol phosphates including pentakis- and hexakisphosphates on small anion-exchange columns 533(1990)201

Insecticides

see Pesticides

Insect metabolites

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Insulin

High-performance liquid chromatography of insulin. Accessibility and flexibility 502(1990)325

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Insulin degradation *in vivo*: a high-performance liquid chromatographic analysis 534(1990)37

Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid-acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43

Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Separation and quantitation of serum proinsulin and proinsulin intermediates in humans 548(1991)371

Quantitation of insulin injection by high-performance liquid chromatography and high-performance capillary electrophoresis 549(1991)357

Insulin A chain

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Insulin II

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Insulin-like growth factor II

Purification and characterization of three molecular forms of insulin-like growth factor II from human Cohn paste IV 532(1990)237

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Interleukin- β

Large-scale purification of the synthetic peptide fragment 163–171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Interleukin-1 β

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Interleukin-2

Separation by cation-exchange high-performance liquid chromatography of three forms of Chinese hamster ovary cell-derived recombinant human interleukin-2 504(1990)351

Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Iodate

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Iodide

Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Determination of iodide in dairy products and table salt by ion chromatography with electrochemical detection 518(1990)268

Ion chromatography of inorganic iodine species using C₁₈ reversed-phase columns coated with cetyltrimethylammonium 549(1991)265

Iodoanilines

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-

crown-6)-immobilized silica as a stationary phase 522(1990)107

Iododoxorubicin

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Iododoxorubicinol

High-performance liquid chromatography of iododoxorubicin and fluorescent metabolites in plasma samples 530(1990)192

Iodothyronine

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

Iodotyrosine

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

Iohexol

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Iomeprol

High-performance liquid chromatographic assay of iomeprol in plasma and urine 525(1990)401

Ions, simple

Separation of simple ions by gel chromatography. I. Simple model of separation for single-salt systems 511(1990)59

Iopamidol

Determination of partition coefficients of non-ionic contrast agents by reversed-phase high-performance liquid chromatography 507(1990)293

Irganox

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Iron

Studies on the separation of Al^{III}, Co^{III}, Cr^{III} and Fe^{III} complexes with acetylacetonone by reversed-phase high-performance liquid chromatography 502(1990)221

Determination of iron(III) ion using ion chromatography with electrochemical detection and its application to the assay of the ferroxidase activity of ceruloplasmin 503(1990)237

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Iron chelators

Chromatography of 3-hydroxypyridin-4-ones: novel orally active iron chelators 519(1990)171

Iron dibutylidithiocarbamate

High-performance liquid chromatographic determination of dibutylidithiocarbamate degradation products in cucumbers and soil 502(1990)214

Irritants

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Isepamicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Column liquid chromatographic determination of isepamicin in nasal cavity using gauze 529(1990)473

Isethionic acid

Determination of isethionic acid by gas chromatography with flame photometric detection 528(1990)172

Isobutanol

Headspace analysis of polar compounds in air 509(1990)107

Isocarboxazid

Determination of marplan in human plasma using high-performance liquid chromatography 529(1990)237

Isocyanates

Indirect determination of isocyanates by gas chromatography 537(1991)357

Isodesmosine

Development and validation of a high-performance liquid chromatographic method for the determination of desmosines in tissues 507(1990)51

Isoflavones

Determination of isoflavones from *Ononis spinosa* L. extracts by high-performance liquid chromatography with ultraviolet diode-array detection 513(1990)397

Isoflavonoids

Application of gas chromatography-mass spectrometry to the identification of isoflavonoids in lupine root extracts 508(1990)391

Isosflurane

High-performance liquid chromatographic method for the direct determination of the volatile anaesthetics halothane, isoflurane and enflurane in water and in physiological buffer solutions 518(1990)250

Isoluminol microperoxidase

High-performance liquid chromatography with a 3 α -hydroxysteroid dehydrogenase postcolumn reactor and isoluminol-microperoxidase chemiluminescence detection 515(1990)329

Isomalt

Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Isomenthone

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Isoniazid

Rapid liquid chromatographic method for the estimation of isoniazid and pyrazinamide in plasma and urine 532(1990)418

Isonicotinic acid hydrazide

Capillary tube isotachopheric separation of niacin derivatives 521(1990)158

Isooctane

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Isoprenol

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Isopropyl N-(3-chlorophenyl)carbamate

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Isopropyl N-phenylcarbamate

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Isorhamnetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Isorhamnetin-3-O-glycosides

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Isosafrole

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Isosorbide-5-mononitrate

Determination of isosorbide-5-mononitrate in human serum by gas chromatography-mass spectrometry 525(1990)447

Isothiocyanates

Rapid gas chromatographic determination of volatile degradation products of glucosinolates in rapeseed oil 502(1990)167

Isotretinoin

Determination of tretinoin in creams by high-performance liquid chromatography 522(1990)227

Isovaleric acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Isradipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Itazigrel

Simple, rapid and sensitive high-performance liquid chromatographic procedure for the quantitation of itazigrel in human plasma or serum 527(1990)233

Itraconazole

Micro-scale method for itraconazole in plasma by reversed-phase high-performance liquid chromatography 525(1990)478

Determination of itraconazole in serum with high-performance liquid chromatography and fluorescence detection 532(1990)203

Ivermectin

Improved high-performance liquid chromatographic method for quantitation of ivermectin in whole blood, serum or muscle tissue 528(1990)250

J**Jacalin**

High-performance liquid affinity chromatography for the purification of immunoglobulin A from human serum using jacalin 514(1990)219

K**Kaempferol**

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Kaempferol-3-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Kanamycin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Keratin

Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223

Ketanserin-binding inhibitor

Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177

Keto bile acids

Simultaneous determination of keto and non-keto bile acids in human serum by gas chromatography with selected ion monitoring 525(1990)225

7-Ketocholesterol

Determination of a cholesterol oxide mixture by a single-run high-performance liquid chromatographic analysis using benzoylation 547(1991)105

Ketones

Improvement of activated carbon for air sampling 503(1990)33

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Reversed-phase high-performance liquid chromatography in the investigation of the hydrophobicity of selected ketones 506(1990)109

Retention and heats of adsorption of *n*-alkanes, aromatic hydrocarbons, aliphatic alcohols and ketones on macroporous silicas 520(1990)47

Hydrogen–deuterium exchange in fused-silica capillary columns 549(1991)416

Ketoprofen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Stereoselective high-performance liquid chromatographic determination of ketoprofen, ibuprofen and fenoprofen in plasma using a chiral α_1 -acid glycoprotein column 532(1990)295

Ketorolac

Simultaneous determination of ketorolac and its hydroxylated metabolite in plasma by high-performance liquid chromatography 534(1990)241

Ketoximes

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonitriles 519(1990)228

Reversed-phase high-performance liquid chromatography of ketoxime analogues of β -adrenergic blockers 541(1991)469

Reversed-phase high-performance liquid chromatography–thermospray mass spectrometry of alprenolol and its ketoxime analogues 541(1991)474

Koch acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Kryptand

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and

thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Krypton

Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213

Kynurenic acid

Quantification of kynurenic acid in cerebrospinal fluid: effects of systemic and central L-kynurenine administration 530(1990)108

Kynurenine

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Quantification of kynurenic acid in cerebrospinal fluid: effects of systemic and central L-kynurenine administration 530(1990)108

L

Labetolol

High-performance liquid chromatographic assay of dilevalol, a β -adrenoceptor blocker, in rat and human plasma 530(1990)458

α -Lactalbumin

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215

β -Lactamases

Use of chromatofocusing for separation of β -lactamases. IX. Analytical chromatofocusing for the separation of a chromosomal cephalosporinase from *Proteus vulgaris* 1028 545(1991)189

 β -Lactams

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Lactate

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Optimization of isotachophoretic analysis: use of the charge-based transient-state model 545(1991)249

Lactate dehydrogenase

Chromatographic purification of glucose-6-phosphate dehydrogenase and lactate dehydrogenase from *Leuconostoc mesenteroides* 503(1990)197

Affinity chromatography on novel perfluorocarbon supports. Immobilisation of C.I. Reactive Blue 2 on a polyvinyl alcohol-coated perfluoropolymer support and its application in affinity chromatography 510(1990)177

New aspects of dye-ligand affinity chromatography of lactate dehydrogenase applying spacer-mediated beaded cellulose 510(1990)189

Competitive elution of lactate dehydrogenase from Cibacron Blue-bead cellulose with Cibacron Blue-dextran 510(1990)197

Coated silica and its behaviour in dye-affinity chromatography 543(1991)9

Evaluation of displacement chromatography for the recovery of lactate dehydrogenase from beef heart under scale-up conditions 547(1991)145

Lactic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Lactobionate

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lactoferrin

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Isolation of human lactoferrin by affinity chromatography using insolubilized bovine β -lactoglobulin 525(1990)442

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

 β -Lactoglobulin

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Selective extraction of native β -lactoglobulin from whey 539(1991)455

High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215

Lactones

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417

Use of thin-layer chromatography for the testing of avermectins produced by *Streptomyces avermitilis* strains 513(1990)401

Lactose

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lactulose

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Lanatosides

Separation and determination of lanatosides in *Digitalis lanata* leaves by high-performance liquid chromatography 508(1990)241

Lanthanides

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277

Continuous separation of lanthanides by counter-current fractional extraction 538(1991)125

Capillary tube isotachophoretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Lanthanoides

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Lanthanum

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Lappaconitine

Separation and characterization of the metabolic products of lappaconitine in rat urine by high-performance liquid chromatography 526(1990)109

Lasalocid

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Latex

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Non-equilibrium analytical focusing field-flow fractionation using intrinsic hydrodynamic force and integral Doppler anemometry 520(1990)271

Laudanosine

Simplified method for the determination of atracurium and laudanosine in pig plasma by high-performance liquid chromatography and fluorimetric detection 526(1990)223

Determination of atracurium and laudanosine in human plasma by high-performance liquid chromatography 529(1990)319

Lauryl laurate

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Lavender oil

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Lead

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Lead selenide

Lead selenide as a polar adsorbent for gas chromatography 520(1990)15

Lecithin

Isolation and purification of lecithin by preparative high-performance liquid chromatography 517(1990)219

High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315

Lectins

Isoelectric focusing studies of concanavalin A and the lentil lectin 502(1990)131

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a

lectin on oligosaccharide-immobilized columns
502(1990)297

Immobilized mucin : an affinity matrix for the
isolation of winged bean acidic and basic lectins
503(1990)272

Purification of proteins on an epoxy-activated
support by high-performance affinity
chromatography 536(1991)95

Glycosylation of extracellular superoxide
dismutase studied by high-performance liquid
chromatography and mass spectrometry
548(1991)293

Lemon-peel oil

Fractionation of lemon-peel oil by semi-
preparative supercritical fluid chromatography
505(1990)237

Lenampicillin

High-performance liquid chromatographic assay
of ampicillin and its prodrug lenampicillin
507(1990)235

Lentinan

High-performance gel permeation
chromatography of water-soluble β -1,3-glucans
509(1990)213

Leucine

Displacement chromatography on cyclodextrin-
silicas. III. Enantiomer separations 506(1990)481

Investigation of parameters in the separation of
amino acid enantiomers by supercritical fluid
chromatography 514(1990)253

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-
glucopyranosylisothiocyanate derivatives of
 α -methyl amino acid enantiomers by high-
performance liquid chromatography
541(1991)297

Leucovorin

Determination of low levels of the stereoisomers
of leucovorin and 5-methyltetrahydrofolate in
plasma using a coupled chiral-achiral high-
performance liquid chromatographic system with
post-chiral column peak compression
532(1990)227

Leukotriene antagonist

Stereochemical analysis of a leukotriene related
hydroxypentadecadiene using a chiral high-
performance liquid chromatography column and
diode array detection 542(1991)189

Leukotrienes

BIO-Fully Automated Sample Treatment high-
performance liquid chromatography and
radioimmunoassay for leukotriene E₄ in human
urine from asthmatics 526(1990)341

Simultaneous reversed-phase extraction of
lipoxygenase and cyclooxygenase metabolites of
arachidonic acid in nasal secretions:
methodological aspects 532(1990)217

Comparison between ethanol and methanol for
the reversed-phase high-performance liquid
chromatographic analysis of leukotriene B₄ and
its metabolites in cell incubation supernatants
532(1990)379

Extraction of urinary leukotriene E₄ by the
combined use of octadecyl reversed-phase and
NH₂ normal-phase extraction columns
532(1990)387

Capillary isotachophoretic determination of
cysteinyl leukotrienes 545(1991)375

Levamisole

Analysis of veterinary drugs using supercritical
fluid chromatography and supercritical fluid
chromatography-mass spectrometry
540(1991)257

Levodopa

see 3,4-Dihydroxyphenylalanine

Lidocaine

Binding of lidocaine to plasma proteins resolved
by high-performance liquid chromatography
526(1990)562

Capillary gas chromatographic method for the
simultaneous determination of local anaesthetics
in plasma samples 533(1990)229

Lignins

Optimization of electrochemical detection in the
high-performance liquid chromatography of
lignin phenolics from lignocellulosic by-products
507(1990)439

Lignocellulosics

Size-exclusion chromatography of lignocellulosics
in wheat straw 536(1991)303

Limonene

Gas chromatographic separation of monoterpene
hydrocarbon enantiomers on α -cyclodextrin
513(1990)315

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Linalyl acetate

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Lincomycin

Assay of methylthiolincosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Linoleic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

γ -Linoleic acid

Gas chromatographic-mass spectrometric identification of the fatty acids in borage oil using the picolinyl ester derivatives 521(1990)89

γ -Linolenic acid

Long-chain assessment of γ -linolenic acid in human blood and plasma with capillary gas chromatography 528(1990)447

Linoleyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Linomycin

Analysis of veterinary drugs using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)257

Linuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Lipids

Thin-layer and high-performance liquid chromatographic separation of glycerolipid subclasses as benzoates. Derivatives of ether and

ester analogues of phosphatidylcholine, phosphatidylethanolamine and platelet activating factor 508(1990)382

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Some limitations of plasma lipid analysis in clinical research by thin-layer chromatography with flame-ionization detection 530(1990)424

Purification of galactolipids by high-performance liquid chromatography for monolayer and Langmuir-Blodgett film studies 542(1991)307

Analysis and fractionation of natural source diacylglycerols as urethane derivatives by reversed-phase high-performance liquid chromatography 547(1991)89

Analysis of lipids in aging seed using capillary supercritical fluid chromatography 547(1991)393

Improved separation of lysoglycerolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

α -Lipoic acid

Enantiomer separation of chiral barbiturates and of α -lipoic acid by capillary gas chromatography with modified cyclodextrins as chiral stationary phases 503(1990)256

Lipoproteins

Characterization of apolipoproteins from chicken plasma 512(1990)203

Determination of α -tocopherol, free cholesterol, esterified cholesterol and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Automated gel permeation chromatography of plasma lipoproteins by preparative fast protein liquid chromatography 525(1990)433

Lipoproteins, high density

Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386

Liposomes

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Liposome chromatography: liposomes immobilized in gel beads as a stationary phase for aqueous column chromatography (Review) 544(1991)283

5-Lipoxygenase inhibitor

Determination of the 5-lipoxygenase inhibitor (CGS 8515) in plasma by high-performance liquid chromatography using reductive electrochemical detection 534(1990)260

Liquid crystals

Determination of binary diffusion coefficients of organic compounds in supercritical carbon dioxide by supercritical fluid chromatography 505(1990)169

Lithium

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Lorazepam

Resolution of enantiomeric lorazepam and its acyl and O-methyl derivatives and racemization kinetics of lorazepam enantiomers 535(1990)229

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Lorglumide

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Loxoprofen

High-performance liquid chromatographic determination of loxoprofen and its diastereomeric alcohol metabolites in biological fluids by fluorescence labelling with 4-bromomethyl-6,7-methylenedioxy coumarin 530(1990)387

Loxidine

Determination of loxidine in human serum by capillary column gas chromatography with nitrogen-phosphorus detection 533(1990)235

L-toxin

Fast purification of *Clostridium sordellii* cytotoxin 528(1990)357

Lubricants

Solubility of gasoline components in different lubricants for combustion engines determined by gas-liquid partition chromatography 538(1991)241

Luminarin 4

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Lupulones

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

Lutein

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C_{18} high-performance liquid chromatographic column 543(1991)137

Characterization of major carotenoids in water convolvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Luteinizing hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Ovine luteinizing hormone. VI. Analysis of the misclassification errors in the separation of intrapituitary isohormones by chromatofocusing 549(1991)153

Luteolin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Lutetium chloride

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

LY195448

High-performance liquid chromatographic measurement of (*R*)-4-[3-[(2-hydroxy-2-phenethyl)amino]-3-methylbutyl]benzamide monohydrochloride (LY195448) and its *p*-hydroxy metabolite in human plasma and urine 527(1990)473

Lypressin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for orniopressin 548(1991)335

Lysergic acid

Application of sodium lauryl sulphate ion-pairing reversed-phase high-performance liquid chromatography in the separation of some isomeric and other closely related basic compounds in pharmaceutical analysis 520(1990)367

Lysergic acid diethylamide

Gas chromatographic-electron-impact mass fragmentographic determination of lysergic acid diethylamide in urine 529(1990)103

Lysoglycosphingolipids

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Lysopine

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Lyso-platelet-activating factor

Detection of lyso-platelet-activating factor by high-performance liquid chromatography after derivatisation with fluorescent fatty acids 527(1990)303

Lysosulphatide

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Lysozyme

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

High-performance liquid chromatography of amino acids, peptides and proteins. C. Characterisation of coulombic interactive regions on hen lysozyme by high-performance liquid anion-exchange chromatography and computer graphic analysis 517(1990)317

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Kinetic behaviour of a novel matrix ion exchanger, carboxymethyl-HVFM operated at high flow-rate 539(1991)255

Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183

M

Macro creatine kinase

Clinical application of subforms of creatine kinase MM and macro creatine kinases 526(1990)423

α_2 -Macroglobulin

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343

Macromolecules

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Macromolecules, rod-like

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Magainin

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Magnesium

Electrodialysis pretreatment system for ion chromatography of strongly acidic samples and its application to the determination of magnesium and calcium 539(1991)221

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Magnesium oxide

Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459

Maillard reaction products

Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287

Malachite green

Post-column reaction for simultaneous analysis of chromatic and leuco forms of malachite green and crystal violet by high-performance liquid chromatography with photometric detection 536(1991)217

Malate

Simultaneous determination of extractable sulphate and malate in plant extracts using ion chromatography 514(1990)371

Malathion

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Malic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Malonaldehyde

High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29

Determination of malonaldehyde in oxidized biological materials by high-performance liquid chromatography 515(1990)391

Determination of free malonaldehyde by gas chromatography with an electron-capture detector 526(1990)174

Malonyl ginsenosides

Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

Malotilate

Measurement of the formation of a thioglucuronide, a metabolite of malotilate, in rat hepatic microsomes by high-performance liquid chromatography 526(1990)254

Malto-oligosaccharides

Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443

Ion chromatographic methods for the detection of starch hydrolysis products in ruminal digesta 546(1991)273

Malto-oligosaccharides, pyridylamino derivatives

Capillary zone electrophoresis of pyridylamino derivatives of maltooligosaccharides 514(1990)57

Mandelic acid

Quantitative gas chromatographic analysis of mandelic acid enantiomers 504(1990)287

Dichlorotetrafluoroacetone as a derivatisation reagent in the analysis of mandelic acids in human urine 527(1990)259

Manganese

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Mannitol

Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance

liquid chromatography with ultraviolet detection 527(1990)238

D-Mannose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

α -D-Mannosidase

Electrophoretic study of α -D-mannosidase and α -D-galactosidase from dry seeds of *Pisum sativum* 540(1991)365

Marplan

Determination of marplan in human plasma using high-performance liquid chromatography 529(1990)237

Medetomidine

Direct high-performance liquid chromatographic separation of (+)- and (-)-medetomidine hydrochloride with an α_1 -acid glycoprotein chiral column 506(1990)627

Medicarpin

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Medifoxamine

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

Medifoxamine N-oxide

Measurement of medifoxamine metabolites in urine by high-performance liquid chromatography 528(1990)531

Mefloquine

Determination of mefloquine in blood by supercritical fluid chromatography with electron-capture detection 527(1990)51

Determination of the enantiomers of mefloquine in plasma and whole blood using a coupled achiral-chiral high-performance liquid chromatographic system 529(1990)339

Megestrol acetate

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Melamine

High-performance liquid chromatographic separation of cyromazine and its metabolite melamine 505(1990)413

Melatonin

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Concurrent on-line sampling of melatonin in pineal microdialysates from conscious rat and its analysis by high-performance liquid chromatography with electrochemical detection 530(1990)47

Melittin

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Membrane proteins

see also Proteins

Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219

Separation of membrane protein-sodium dodecyl sulphate complexes by high-performance liquid chromatography on hydroxyapatite 515(1990)399

Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169

Purification of the membrane-form variant surface glycoprotein of *Trypanosoma brucei* 521(1990)239

Purification of a recombinantly produced transmembrane protein (gp41) of HIV I 521(1990)267

Rapid purification of cytochrome *c* oxidase from *Paracoccus denitrificans* 521(1990)291

Isolation of an outer membrane protein complex from *Borrelia burgdorferi* by *n*-butanol extraction and high-performance ion-exchange chromatography 521(1990)325

Menthol

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Determination of menthol and menthol glucuronide in human urine by gas chromatography using an enzyme-sensitive internal standard and flame ionization detection 527(1990)59

Menthol glucuronide

Determination of menthol and menthol glucuronide in human urine by gas chromatography using an enzyme-sensitive internal standard and flame ionization detection 527(1990)59

Menthone

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Menthyl anthranilate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Mepamil

Determination of mepamil in human plasma by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)251

Mephensesin

Determination of mephensesin in plasma by high-performance liquid chromatography with fluorimetric detection 507(1990)221

Mephenorex

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Mephenytoin

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Mephobarbital

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Mepindolol

Determination of mepindolol in plasma after transdermal drug delivery by high-performance liquid chromatography with electrochemical detection 526(1990)240

Mepirodipine

Determination of mepirodipine in plasma by capillary column gas chromatography-negative-ion chemical ionization mass spectrometry 528(1990)191

Mepivacaine

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Mepyramine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

2-Mercaptoethanol

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

6-Mercaptopurine

Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349

Mercapturic acids

High-performance liquid chromatographic determination of urinary mercapturic acids in rat 526(1990)289

Metal chelates

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Metal complexes

Studies on the separation of Al^{III} , Co^{III} , Cr^{III} and Fe^{III} complexes with acetylacetonone by reversed-phase high-performance liquid chromatography 502(1990)221

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Ionophoretic studies on mixed complexes. Metal-nitritotriacetate-penicillamine system 542(1991)537

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

Metal cyano complexes

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Metal β -diketonates

Reversed-phase liquid chromatographic retention of geometrical isomers of tris(β -diketonato)-chromium(III) and tris(β -diketonato)-cobalt(III). Comparison with liquid-liquid partition in a dodecane-(methanol-water) system 547(1991)225

Metal β -diketonates, fluorinated

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Metal ions

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced

X-ray emission. I. Separation of twenty metal cations using an acetic acid buffer system and α -hydroxyisobutyric acid complex-forming system 538(1991)413

Metals

Use of ion chromatography in agricultural research (Review) 546(1991)387

Metamitron

Direct determination of metamitron in surface water by large sample volume injection 543(1991)244

Metazosin

Determination of metazosin in biological fluids by reversed-phase high-performance liquid chromatography with fluorescence detection 529(1990)245

Methacrylate

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Methacrylate-styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Methamphetamine

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Spacer-displacement and carrier spacer-displacement thin-layer chromatography 520(1990)287

Assay of the optical isomers of methamphetamine and amphetamine in rat urine using high-performance liquid chromatography with chiral cellulose-based columns 525(1990)203

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

High-performance liquid chromatography-chemiluminescence determination of methamphetamine in human serum using N-(4-aminobutyl)-N-ethylisoluminol as a chemiluminogen 530(1990)154

Methane

Temperature dependence of dead time as determined by methane retention in open-tubular capillary gas chromatography 547(1991)239

Methanethiol

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Methanol

Determination of individual hydrocarbons in automobile exhaust from gasoline-, methanol- and variable-fueled vehicles 503(1990)51

Packed column gas chromatography-capillary column gas chromatography-mass spectrometry coupling for the qualitative characterization of technical products 520(1990)175

Comparison between ethanol and methanol for the reversed-phase high-performance liquid chromatographic analysis of leukotriene B₄ and its metabolites in cell incubation supernatants 532(1990)379

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Methaqualone

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

Methionine

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

High-performance liquid chromatography of sulfur-containing amino acids and related compounds with amperometric detection at a modified electrode 543(1991)226

Methionine enkephalin

Proenkephalin A and proopioidmelanocortin peptides in human cerebrospinal fluid 530(1990)235

Methionine hydroxy analogue

Simultaneous liquid chromatographic determination of methionine hydroxy analogue and DL-methionine in feed formulations 516(1990)375

Methotrexate

Preparation and evaluation of octadecyl-treated porous glasses. Application to the determination of methotrexate in serum 515(1990)43

On-line precolumn photochemical generation of pH gradient: micro-high-performance liquid chromatography of methotrexate and its impurities 522(1990)205

Methotrimeprazine

High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205

5'-O-(4-Methoxy-4'-alkoxytrityl)thymidine

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

p-Methoxycinnamic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

3-Methoxy-O-demethylencainide

Encainide and metabolites analysis in serum or plasma using a reversed-phase high-performance liquid chromatographic technique 526(1990)260

Analysis of encainide and its three major metabolites in plasma by column liquid chromatography 534(1990)223

3-Methoxy-4-hydroxyphenylacetic acid

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

2-Methoxy-3-isobutylpyrazine

New sensitive method for the examination of the volatile flavor fraction of cabernet sauvignon wines 522(1990)315

Methoxy-1,2-phenylenediamine

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

2-Methoxy-5-(N-phthalimidyl)benzenesulphonyl chloride

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

5-Methoxypsoralen

Simple equilibrium dialysis-high-performance liquid chromatographic method for the *in vitro* assessment of 5-methoxypsoralen bound to human albumin 539(1991)443

1-Methyladenosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Methylamine

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

 α -Methyl amino acids

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297

2-Methylaminosuccinic acid

Resolution of the neuroexcitatory N-methylaspartic acid (2-methylaminosuccinic acid) enantiomers by ligand-exchange thin-layer chromatography 502(1990)226

N-Methylaspartic acid

Resolution of the neuroexcitatory N-methylaspartic acid (2-methylaminosuccinic acid) enantiomers by ligand-exchange thin-layer chromatography 502(1990)226

7-Methylbenz[c]acridine

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Methylbenzoate

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

α -Methylbenzylamine

Resolution of (\pm)-2-aminoheptane enantiomers by inductive adsorption chromatography 540(1991)157

 α -Methylbutyric acids, α -substituted

Enantiomeric separation of racemic α -substituted α -methylbutyric acid derivatives on microcrystalline cellulose triacetate 520(1990)361

N-Methylcarbamates

Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459

3-Methylcholanthrene

High-performance liquid chromatographic method for the determination of 3-methylcholanthrene in channel catfish plasma 534(1990)208

3-Methylcrotonyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Methylcyclopentadiene dimers

Chromatographic study of methylcyclopentadiene dimers and iso-dimers and determination of their boiling points 508(1990)363

Methylcysteine

Study of chelating tendency of sulphur-containing amino acids by electrophoresis 547(1991)554

5-Methylcytosine

Determination of 5-methylcytosine content of four Cucurbitaceae species using high-performance liquid chromatography 540(1991)397

Methyl dopa

High-performance liquid chromatographic determination of L-3-(3,4-dihydroxyphenyl)-2-methylalanine (α -methyl dopa) in human urine and plasma 541(1991)285

Separation and estimation of small amounts of the enantiomers of carbidopa and methyl dopa on a chiral stationary phase with L-phenylalanine as selector in ligand-exchange chromatography 545(1991)115

Stability-indicating high-performance liquid chromatographic assay for α -methyl dopa in sustained-release capsules 549(1991)221

3-O-Methyl dopa

Simple automated high-performance liquid chromatographic column-switching technique for the measurement of dopa and 3-O-methyl dopa in plasma 530(1990)253

Simultaneous high-performance liquid chromatographic analysis of carbidopa, levodopa and 3-O-methyl dopa in plasma and carbidopa, levodopa and dopamine in urine using electrochemical detection 534(1990)87

Methylene blue

Sensitive, indirect photometric detector for high-performance liquid chromatography using a light-emitting diode 502(1990)305

Methylene chloride

Improvement of activated carbon for air sampling 503(1990)33

4,4'-Methylenedianiline

Determination of 4,4'-methylenedianiline in hydrolysed human urine using liquid chromatography with UV detection and peak identification by absorbance ratio 511(1990)185

1-Methyl-3-ethylimidazolium

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484

Methyl farnesoate

Quantification of methyl farnesoate levels in hemolymph by high-performance liquid chromatography 545(1991)71

N²-Methylguanosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

3-Methylhistidine

Determination of 3-methylhistidine in hydrolysed proteins by fluorescamine derivatization and high-performance liquid chromatography 536(1991)283

Methyl 5-hydroxyeicosatetraenoate

Derivatization of hydroxyeicosatetraenoic acid methyl esters with pentafluorobenzoic anhydride and analysis with supercritical fluid chromatography-chemical ionization mass spectrometry 543(1991)405

(±)-Methyl-2-hydroxylaurate

Analytical gas chromatographic separations of diastereomeric *tert.*-butylmethoxyphenylsilyl ethers 514(1990)305

(±)-Methyl-2-hydroxymyristate

Analytical gas chromatographic separations of diastereomeric *tert.*-butylmethoxyphenylsilyl ethers 514(1990)305

4-Methylimidazole

High-performance liquid chromatographic determination of 4-methylimidazole in sheep plasma and in ammoniated tall fescue hay 532(1990)105

N-Methylimipramine

Ion-pair chromatography of inositol polyphosphates with N-methylimipramine 528(1990)143

Ion-pair chromatography of inositol polyphosphates with N-methylimipramine 528(1990)143

1-Methylinosine

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Methyl iodide

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

N-Methylisoquinolinium ion

Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

 α -Methylleucine

Resolution of 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosylisothiocyanate derivatives of α -methyl amino acid enantiomers by high-performance liquid chromatography 541(1991)297

Methylmalonic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Methyl mandelate

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Methylmercury chloride

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Methyl methacrylate

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Dosage du méthylmethacrylate dans le sérum par chromatographie liquide à haute performance 525(1990)249

N-Methylnicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

N-Methyloleoyl taurate

Determination of creatinine in serum by high-performance liquid chromatography: a comparison of three ion-exchange methods 527(1990)21

Methylphenidate

Capillary gas chromatographic-mass spectrometric analysis of plasma methylphenidate 528(1990)214

Enantioselective gas chromatographic assay with electron-capture detection for *dl*-ritalinic acid in plasma 530(1990)327

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Methylphenobarbital

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Methylphenylsiloxane

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

4'-O-Methylpicoid

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

2-Methylpyrazine

Determination of 2-methylpyrazine and pyrazinamide in reaction mixtures by gas and high-performance liquid chromatography 513(1990)83

Methyl red

Isoelectric focusing field-flow fractionation. II. Experimental study of focusing of methyl red in the trapezoidal cross-section channel 545(1991)349

1-Methyl-1,2,3,4-tetrahydro- β -carboline

Highly sensitive method for the determination of 1-methyl-1,2,3,4-tetrahydro- β -carboline using combined capillary gas chromatography and negative-ion chemical ionization mass spectrometry 528(1990)1

5-Methyltetrahydrofolate

Determination of low levels of the stereoisomers of leucovorin and 5-methyltetrahydrofolate in plasma using a coupled chiral-achiral high-performance liquid chromatographic system with post-chiral column peak compression 532(1990)227

N-Methyl-1,2,3,4-tetrahydroisoquinoline

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

Methylthiolicosaminide

Assay of methylthiolicosaminide in fermentations by high-performance liquid chromatography with fluorescence detection 502(1990)184

Methylthiouracil

High-performance liquid chromatographic determination of propylthiouracil in plasma 507(1990)247

Methylxanthines

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Methylxanthines, metabolites

Gas chromatographic-mass spectrometric quantitation of tri-, di- and monomethylxanthines and uric acids from hepatocyte incubation media 532(1990)261

Metocurine

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Metolazone

Quantitation of metolazone in urine by high-performance liquid chromatography with fluorescence detection 534(1990)228

Metoprolol

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Analysis of metoprolol enantiomers in human serum by liquid chromatography on a cellulose-based chiral stationary phase 530(1990)83

Enantiomeric separation of amines using N-benzoyloxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Metrifonate

Determination of metrifonate and dichlorvos in whole blood using gas chromatography and gas

chromatography and gas chromatography–mass spectrometry 529(1990)309

Metrizamide

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Metyrapone

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

Mexiletine

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

High-performance liquid chromatography of mexiletine in plasma 530(1990)164

Micelles

Mechanistic study on the derivatization of aliphatic carboxylic acids in aqueous non-ionic micellar systems 507(1990)351

Microporous carbon black

Determination of heats of adsorption on graphite and on a microporous carbon black by gas–solid chromatography 520(1990)69

Microcystins

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Midazolam

Rapid, sensitive determination of human serum midazolam by high-performance liquid chromatography 528(1990)526

High-performance liquid chromatographic assay to determine midazolam and flumazenil simultaneously in human plasma 530(1990)177

Milk fat

Argentation chromatography of fatty acid methyl esters using silver-loaded solid-phase extraction columns 504(1990)202

Mineral acids

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid–hydrogen peroxide media 539(1991)169

Mineral oil

Automatic sampler for Curie-point pyrolysis–gas chromatography with on-column introduction of pyrolysates 518(1990)9

Mitomycin C

Determination of mitomycin C in serum by high-performance liquid chromatography with dual-electrode coulometric detection 527(1990)441

Mitoxantrone

Novel assay method for mitoxantrone in plasma, and its application in cancer patients 532(1990)337

Molsidomine

Determination of the active metabolite of molsidomine in human plasma by reversed-phase high-performance liquid chromatography 528(1990)435

Molybdenum

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Monensin

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Indirect thin-layer chromatography–fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

N-Monoacetylcystathionine

Determination of N-monoacetylcystathionine in biological samples using isotachopheresis 526(1990)550

Monoamine oxidase B

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorescamine and fluorescence detection 507(1990)187

Monoamines

Determination of monoamines and indoles in amniotic fluid by high-performance liquid chromatography–electrochemical detection 528(1990)101

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Monoamino ligands

Coupling of mono- and polyamino ligands to solid phases by nucleophilic attack on coupling groups that may be spontaneously hydrolysed 525(1990)246

Monochloroacetic acid

Isotachopheretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Monoclonal antibodies

see also Antibodies

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Enhanced activity of immobilized dimethylmaleic anhydride-protected poly- and monoclonal antibodies 510(1990)303

Enzymic oxidation of monoclonal antibodies by soluble and immobilized bifunctional enzyme complexes 510(1990)321

Evaluation of factors which affect column performance with immobilized monoclonal antibodies. Model studies with a lysozyme-antilysozyme system 512(1990)23

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobilized membranes 516(1990)133

Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised haptens 516(1990)433

High-performance affinity chromatography of immunoglobulin E on a column of dinitrophenylamino acids covalently bound to a highly cross-linked polymeric micropellicular support 536(1991)155

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Separation of antibody-antigen complexes by capillary zone electrophoresis, isoelectric focusing

and high-performance size-exclusion chromatography 539(1991)177

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

High-performance affinity chromatography of a chick lectin on an adsorbent based on hydrophilic polymer gel 543(1991)315

Isolation of an interleukin 2-binding receptor from activated lymphocytes by high-performance immunoaffinity chromatography 550(1991)741

Monodansylcadaverine

Rapid determination by high-performance liquid chromatography of free fatty acids released from rat platelets after derivatization with monodansylcadaverine 515(1990)467

Monodesmethylcitalopram

Simultaneous determination of citalopram, monodesmethylcitalopram and didesmethylcitalopram in plasma by high-performance liquid chromatography after column extraction 527(1990)226

Monofluorophosphate

Ion chromatography for the analysis of household consumer products 546(1991)351

Monoolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Monosaccharides

Identification of monosaccharides by high-performance liquid chromatography using methanolysis and a light-scattering detector 514(1990)70

High-performance liquid chromatographic separation of monosaccharides as their peracetylated ketoximes and aldonitriles 519(1990)228

Determination of monosaccharides by high-performance liquid chromatography in systemic candidosis 525(1990)169

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289

Monoterpene glycosides

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Monoterpenes

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Gas chromatographic separation of monoterpene hydrocarbon enantiomers on α -cyclodextrin 513(1990)315

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Monoterpenoids

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Monovalent ions

Quantitative analysis in capillary zone electrophoresis with conductivity and indirect UV detection 549(1991)345

Monuron

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Morin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Morphiceptin

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Morphine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Direct injection high-performance liquid chromatographic assay of morphine with electrochemical detection, a polymeric column and an alkaline eluent 507(1990)253

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Determination of pholcodine and its metabolites in urine by capillary gas chromatography 532(1990)277

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Morphine glucuronides

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Morpholine

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Separation and detection of group I and II cations by ion chromatography 546(1991)229

Morsuximide

Chromatographic liquid-liquid ternary phase system with permethylated β -cyclodextrin as chiral additive 547(1991)59

Mucins

High-performance size-exclusion chromatography of porcine colonic mucins. Comparison of Bio-Gel® TSK 40XL and Sepharose® 4B columns 518(1990)349

Mucopolysaccharidoses

Pulsed amperometric detection of carbohydrates in lysosomal storage disease fibroblasts: a new screening technique for carbohydrate storage diseases 533(1990)11

Multidentate silicas

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Muramic acid

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Mustard

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Mycophenolic acid

High-performance liquid chromatographic determination of mycophenolic acid in fermentation broth 540(1991)383

Mycotoxins

Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195

Rapid and sensitive detection of citrinin production during fungal fermentation using high-performance liquid chromatography 535(1990)317

Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441

Selective determination of altertoxins by high-performance liquid chromatography with electrochemical detection with dual "in-series" electrodes 540(1991)376

Automated aflatoxin analysis of foods and animal feeds using immunoaffinity column clean-up and high-performance liquid chromatographic determination 543(1991)220

Myelin-associated glycoprotein

Purification of myelin-associated glycoprotein from calf brain using high-performance liquid chromatography 526(1990)535

Myelin basic protein

Rapid method based on reversed-phase high-performance liquid chromatography for purification of human myelin basic protein and its thrombin and endoproteinase Lys-C peptides 528(1990)79

Myelin lipids

Thin-layer chromatographic analysis of myelin lipids, their differential O-deacylation by primary

alkylamines and their selective staining by thionine. A limited phylogenetic study 525(1990)339

Myoglobin

High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Myoinositol phosphates

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Myricetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Myristyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass

spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Myristylated peptide, synthetic

Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141

N

N-0437

Reversed-phase liquid chromatographic method with amperometric detection for the determination of the dopamine agonist 2-(N-propyl-N-2-thienylethylamino)-5-hydroxytetralin (N-0437) in human plasma and urine 528(1990)464

Nacardipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

NAD glycohydrolase

Purification of NAD glycohydrolase from *Neurospora crassa* conidia by a polyclonal immunoabsorbent 539(1991)517

NADH

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Nadolol

Liquid and high-pressure carbon dioxide chromatography of β -blockers. Resolution of the enantiomers of nadolol 539(1991)55

NADP

Chromatographic behaviour of cyclodextrin complexes of NADH and NADP 508(1990)127

Naftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

Nalidixic acid

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Naphthalene-2,3-dialdehyde

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Naphthalenes

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Application of substituted liquid crystals as stationary phases in gas-liquid chromatography for the separation of mono- and dimethyl naphthalenes 549(1991)423

Naphthalene-2-sulphonate

Retention prediction based on the electrostatic model of reversed-phase ion-pair high-performance liquid chromatography: effect of pairing ion concentration 535(1990)181

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

N-[(2-Naphthalene)sulphonyl]propyl isocyanate

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

2-(2,3-Naphthalimino)ethyl trifluoromethane-sulphate

2-(2,3-Naphthalimino)ethyl trifluoromethanesulphonate as a highly reactive ultraviolet and fluorescent labelling agent for the liquid chromatographic determination of carboxylic acids 508(1990)133

Naphthenes

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

1-Naphthol

Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas

chromatography-fluorescence spectrometry
547(1991)345

2-Naphthol

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

1-Naphthol-4-sulphonic acid, sodium salt

High-pressure and supercritical capillary electrophoresis 517(1990)573

Naphthylaminesulphonic acids

Separation of phenylamine- and naphthylaminesulphonic acids by reversed-phase high-performance liquid chromatography 523(1990)247

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

Naproxen

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Chromatographic separation of the optical isomers of naproxen 543(1991)355

Naproxen chloride

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Narcotine

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Naringenin

Improved chiral stationary phase based on cellulose triacetate supported on non-macroporous silica gel diol for the high-performance liquid chromatographic separation of racemic flavanones and diastereomeric flavanone glycosides 502(1990)287

Assay of hydroxyfarrerol in biological fluids 535(1990)255

Naringenin-4'-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Navelbine

Determination of navelbine and desacetylnavelbine in biological fluids by high-performance liquid chromatography 525(1990)225

High-performance liquid chromatographic determination of navelbine in human plasma and urine 528(1990)258

Nefopam

Determination of plasma nefopam by liquid chromatography and electrochemical detection 526(1990)159

Neodymium

Peak interactions under concave isotherm conditions in preparative ion chromatography 546(1991)27

Neopatulin

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Neosaxitoxin

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Nervonic acid

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Netilmicin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Neuramide

High-performance liquid chromatographic approach to the separation of antiviral and immunostimulant fractions in Neuramide 512(1990)123

High-performance liquid chromatographic purification of antiviral components in Neuramide 548(1991)289

Neuraminidase

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Neurochemicals

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Neurofilament protein

Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265

Neurohormones

Rapid isolation of a neurohormone from mosquito heads by high-performance liquid chromatography 542(1991)508

Neurolite

Separation and detection of oxidation products in Neurolite raw material 550(1991)549

Neuropeptides

see also Endorphins and Enkephalins

Combination of positron emission tomography with liquid chromatography in neuropharmacologic research 507(1990)303

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Neurosporene

High-performance liquid chromatography of *cis-trans* isomers of neurosporene: discrimination of *cis* and *trans* configurations at the end of an open conjugated chain 519(1990)221

Neurotoxins

Studies on the uptake of N-methylisoquinolinium ion into rat striatal slices using high-performance liquid chromatography with fluorimetric detection 503(1990)189

Confirmation of domoic acid in shellfish using butyl isothiocyanate and reversed-phase liquid chromatography 550(1991)595

Neutral drugs

Solid-phase extraction for the screening of acidic, neutral and basic drugs in plasma using a single-column procedure on Bond Elut Certify 529(1990)161

Niacinamide

Use of column switching for the determination of niacinamide in compound feed 502(1990)79

Ion chromatography for the analysis of household consumer products 546(1991)351

Nicardipine

Simultaneous microdetermination of nicardipine and its pyridine metabolite in body fluids by capillary column gas chromatography with electron-capture detection 530(1990)438

High-performance liquid chromatographic method for the measurement of nicardipine in plasma or serum 530(1990)463

Nicardipine, pyridine metabolite

Simultaneous microdetermination of nicardipine and its pyridine metabolite in body fluids by capillary column gas chromatography with electron-capture detection 530(1990)438

Nickel

High-performance liquid chromatographic study of ligand-exchange reactions of fluorinated metal β -diketone chelates 517(1990)185

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Nickel acetylacetonates

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Nickel complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Nicorandil

Determination of nicorandil in plasma using high-performance liquid chromatography with photoconductivity and ultraviolet detection. Application to pre-clinical pharmacokinetics in beagle dogs 525(1990)151

Rapid and simple detection of nicorandil in rat plasma using a solid-phase extraction column 528(1990)509

***Nicotiana tabacum* pigments**

Rapid extraction and high speed liquid chromatography of *Nicotiana tabacum* leaf pigments 502(1990)431

Nicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Nicotine

Nicotine metabolites in the urine of smokers 525(1990)193

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnicotine 525(1990)349

On-line determination of the optical purity of nicotine 543(1991)129

Nicotine compounds

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Nicotine-N-oxide

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnicotine 525(1990)349

Nicotinic acid

Use of column switching for the determination of niacinamide in compound feed 502(1990)79

Ion chromatography for the analysis of household consumer products 546(1991)351

Nifedipine

Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography 529(1990)175

Niflumic acid

High-performance liquid chromatographic determination of niflumic acid in human plasma and urine 533(1990)271

Nifurstyrenate

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Nigericin

Separation and determination of polyether carboxylic antibiotics from *Streptomyces hygroscopicus* NRRL B 1865 by thin-layer chromatography with flame ionization detection 547(1991)411

Nilvadipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Nimodipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Determination of the calcium antagonist nimodipine in plasma by capillary gas chromatography and nitrogen detection 533(1990)224

Nimustine hydrochloride

Rapid and simple method for the determination of nimustine hydrochloride in human blood and brain by high-performance liquid chromatography 526(1990)507

Nitrate

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Anion-exchange chromatography on selected silica-based reversed-phase high-performance liquid chromatographic columns 544(1991)99

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination by ion chromatography and spectrophotometry of the effects of preservation on nitrite and nitrate 546(1991)341

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Nitrendipine

Optical resolution of dihydropyridine enantiomers by high-performance liquid chromatography using phenylcarbamates of polysaccharides as a chiral stationary phase 513(1990)375

Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography 529(1990)175

High-performance liquid chromatography of the metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Nitrendipine-pyridine

High-performance liquid chromatography of the

metabolites of nitrendipine and investigation into the metabolic pathways of this dihydropyridine 530(1990)206

Nitric oxide

High-performance liquid chromatographic analysis of the unusual pathway of oxidation of L-arginine to citrulline and nitric oxide in mammalian cells 539(1991)433

Nitriles

Gas chromatography of the atmosphere of Titan. II. Analysis of low-molecular-weight hydrocarbons and nitriles with a potassium chloride-deactivated alumina PLOT capillary column 514(1990)65

Nitriлотriacetate

Ionophoretic studies on mixed complexes. Metal-nitriлотriacetate-penicillamine system 542(1991)537

Nitriлотriacetic acid

Determination of free nitriлотriacetic acid in environmental water samples by ion chromatography with potentiometric and amperometric detection with a copper electrode 546(1991)311

Nitrite

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Simultaneous determination of nitrites, nitrates and amines by ion-interaction reversed-phase high-performance liquid chromatography. Application to lagoon water 509(1990)147

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Ion chromatography of nitrite, bromide and nitrate ions in brine samples using a chloride-form anion-exchange resin column 514(1990)355

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Alkanesulphonates as eluents for the determination of nitrate and nitrite by ion chromatography with direct UV detection 521(1990)53

Factors affecting selectivity in micelle exclusion chromatography of inorganic anions 538(1991)341

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Determination by ion chromatography and spectrophotometry of the effects of preservation on nitrite and nitrate 546(1991)341

Application of ion chromatography to failure analysis of electronics packaging 546(1991)347

Nitroalkanes

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

2-Nitroaniline

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

***p*-Nitroaniline**

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Nitroaromatic compounds

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Nitrobenzenes

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Gas chromatographic and mass spectrometric determination of nitroaromatics in water 518(1990)21

Nitrogen, total

Determination of total nitrogen in food, environmental and other samples by ion chromatography after Kjeldahl digestion 546(1991)405

Nitrogen dioxide

Analysis of nitrogen dioxide in ambient air by ion-exclusion chromatography with electrochemical detection 503(1990)466

Nitronates

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

Nitronic acids

Analysis of decomposition products of alkyl nitronic acids by reversed-phase high-performance liquid chromatography 505(1990)402

***p*-Nitrophenol glucuronide**

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

Nitrophenols

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Sensitivity of electrokinetic detection of acidic aromatic nitro derivatives using column as a detector 541(1991)257

Gas chromatographic determination of nitrophenols in atmospheric liquid water and airborne particulates 549(1991)313

Computer-assisted sample clean-up in liquid chromatography from thin-layer chromatographic data 550(1991)657

p-Nitrophenol sulphate

High-performance liquid chromatographic analysis of *p*-nitrophenol and its conjugates in biological samples 532(1990)285

5-(p-Nitrophenyl)-2-furoic acid

Determination of a dantrolene metabolite, 5-(*p*-nitrophenyl)-2-furoic acid, in plasma and urine by high-performance liquid chromatography 526(1990)575

2-Nitrophenylhydrazides

Liquid chromatographic determination of free and total fatty acids in milk and milk products as their 2-nitrophenylhydrazides 523(1990)235

p-Nitrophenylhydrazine

High-performance liquid chromatographic determination of malonaldehyde using *p*-nitrophenylhydrazine as a derivatizing reagent 514(1990)29

4-Nitrophenylisothiocyanate

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

N-(3-Nitro-4-quinoline)morpholino-4-carboxamidine

Determination of N-(3-nitro-4-quinoline)-morpholino-4-carboxamidine in plasma by high-performance liquid chromatography 520(1990)379

Nitroso compounds

Trifluoroacetic anhydride-sodium iodide as a reagent for the selective detection of nitroso compounds by thin-layer chromatography 516(1990)467

N-Nitrosodimethylamine

Determination of N-nitrosodimethylamine in fish products using gas chromatography with nitrogen-phosphorus detection 508(1990)357

Nitrotoluene

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Nivalenol

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Nizatidine

High-performance liquid chromatographic assay for nizatidine, a new H₂ blocker, in human plasma and urine using disposable solid-phase extraction columns 525(1990)490

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

Nizatidine sulphoxide

Determination of nizatidine and two of its main metabolites in human serum using high-performance liquid chromatography 529(1990)369

Nodularin

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Nomifensine

Determination of nomifensine in rat brain by high-performance liquid chromatography with fluorescence detection 525(1990)234

Nonanal

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

Nopalinic acid

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Noradrenaline

Determination of free catecholamines in human urine by direct injection of urine into a liquid chromatographic column-switching system with fluorimetric detection 515(1990)435

Determination of urinary free noradrenaline by reversed-phase high-performance liquid chromatography with on-line extraction and fluorescence derivatization 515(1990)621

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Fully automated high-performance liquid chromatographic assay for the analysis of free catecholamines in urine 530(1990)11

Simple approach for reversal of the epinephrine-norepinephrine elution order in ion-pair reversed-phase liquid chromatography 532(1990)394

Determination of plasma catecholamines via condensation with diphenylethylenediamine: simplification of the procedure 533(1990)166

Direct enantiomeric separation of β -amino acids and β -amino alcohols by ligand-exchange chromatography 540(1991)169

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Norcocaine

Microassay for the simultaneous determination of cocaine, norcocaine, benzoylecgonine and benzoynorecgonine by high-performance liquid chromatography 525(1990)113

Determination of cocaine and norcocaine in plasma and cell cultures using high-performance liquid chromatography 526(1990)447

Simultaneous determination of cocaine and its metabolites with caffeine in rat serum microsamples by high-performance liquid chromatography 532(1990)95

Nordoxepin

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Norepinephrine

see Noradrenaline

Norfloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Norharman

Determination of β -carbolines in foodstuffs by high-performance liquid chromatography and high-performance liquid chromatography-mass spectrometry 538(1991)331

Norhopane

Tandem mass spectrometry—an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Norleucine

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Normorphine

Fast reliable assay for morphine and its metabolites using high-performance liquid chromatography and native fluorescence detection 525(1990)379

Nornicotine

Determination of nornicotine in smokers' urine by gas chromatography following reductive alkylation to N'-propylnornicotine 525(1990)349

Nor-nitrogen mustard

Determination of nor-nitrogen mustard hydrochloride using gas chromatography with flame ionization detection 547(1991)501

19-Nortestosterone

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Nortriptyline

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Rapid and simple high-performance liquid chromatographic determination of tricyclic antidepressants for routine and emergency serum analysis 536(1991)319

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Norvaline

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Norverapamil

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

Nucleic acids

see also DNA and RNA

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

Nucleobases

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Improved sample preparation method for high-performance liquid chromatography of deoxyribonucleoside triphosphates from cell culture extracts 508(1990)75

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Nucleophiles

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Nucleophiles, weak

Polymeric dimethylaminopyridinium reagents for derivatization of weak nucleophiles in high-performance liquid chromatography-ultraviolet/fluorescence detection 515(1990)337

Nucleoside phosphates

Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91

Nucleoside H-phosphonates

Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103

Nucleosides

Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35

Partition coefficients and capacity factors of some nucleoside analogues 506(1990)119

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29

Frontal chromatographic techniques in preparative chromatography 523(1990)11

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

High-performance liquid chromatographic method for the analysis of 2',3'-dideoxycytidine in human plasma 532(1990)442

Quantitation of didanosine in human plasma and urine by high-performance liquid chromatography 533(1990)282

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

Anomalous retention behaviour of some synthetic nucleosides on aluminium oxide layers 543(1991)425

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Comparative investigation of the retention behaviour of nucleoside derivatives on alumina stationary phases in thin-layer chromatography and high-performance liquid chromatography 550(1991)667

Nucleotides

Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245

Application of chromatographic retention data in an investigation of a quantitative structure-nucleotide incorporation rate relationship 506(1990)35

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113

Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311

Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109

Characterization of temperature-sensitive cytidine triphosphate synthase mutations in bacteria by high-performance liquid chromatography 512(1990)403

Preparation of ethylenediaminephosphoramidates of nucleotides and derivatization with fluorescein isothiocyanate 512(1990)409

Convenient purification of tritylated and detritylated oligonucleotides up to 100-mer 512(1990)415

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography 521(1990)29

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Chromatographic behaviour of cyclodextrin complexes of nucleotides, nucleosides and their bases 523(1990)293

Methods for the isolation and detection of etheno adducts in nucleotide pools in vivo following exposure to ethyl carbamate 526(1990)407

Application and validation of an ion-exchange high-performance liquid chromatographic method for measuring adenine nucleotides, creatine and creatine phosphate in mouse brain 527(1990)31

Determination of sixteen nucleotides, nucleosides and bases using high-performance liquid chromatography and its application to the study of purine metabolism in hearts for transplantation 527(1990)414

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Measurement of adenine nucleotide levels with an adenine analyser as an index of freshness of porgy 528(1990)305

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

High-performance liquid chromatography of deoxyribonucleoside di- and triphosphates in tomato roots 536(1991)237

Purification of DNA and group separation of normal and modified DNA components by size-exclusion chromatography 539(1991)373

Model studies on iron(III) ion affinity chromatography. Interaction of immobilized metal ions with nucleotides 541(1991)333

Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207

High-performance displacement electrophoresis in 0.025- to 0.050-mm capillaries coated with a polymer to suppress adsorption and electroendosmosis 550(1991)811

O

Octanal

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Octane

Sorption isotherms of organic vapours on Tenax 514(1990)279

Optimization study of octane-in-water emulsions by sedimentation field-flow fractionation 517(1990)333

Octopamine

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Detection of octopamine in an insect ganglion by high-performance liquid chromatography-native fluorescence 549(1991)400

Octopinic acid

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

4-Octylbenzene sulphonic acid

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Octyl dimethyl *p*-aminobenzoate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Octylglucoside

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Octyl methoxycinnamate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Octyl salicylate

Determination of sunscreen compounds in topical sunscreen products 519(1990)117

Oestr...

see Estr...

Oils

Re-examination of the fatty acid composition of *Biota orientalis* seed oil by gas chromatography-mass spectrometry of the picolinyl ester derivatives 543(1991)257

Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335

Oleananes

Tandem mass spectrometry -- an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Olefins

On-line chromatographic analyser for determining the composition and octane number of reforming process effluents 509(1990)47

Chemically bonded chelates as selective complexing sorbents for gas chromatography. I. Alkenes 547(1991)259

Oleic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Oleyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Oligoguanylates

High-performance liquid chromatography of oligoguanylates at high pH 538(1991)474

Oligomers

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215

Chromatographic separation of surfactants: XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539

Oligonucleotides

Analysis of oligonucleotides by capillary gel electrophoresis 507(1990)113

Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers 508(1990)61

Analytical study of phosphorothioate analogues of oligodeoxynucleotides using high-performance liquid chromatography 509(1990)396

Convenient purification of tritylated and detriylated oligonucleotides up to 100-mer 512(1990)415

Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography 512(1990)433

Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis 516(1990)49

Reversed-phase high-performance liquid chromatographic study of the formation of complexes of nucleotides and oligonucleotides with Lu(III) 516(1990)456

High-performance liquid chromatographic analysis of phosphorothioate analogues of oligodeoxynucleotides in biological fluids 533(1990)133

Large-scale purification of haptenated oligonucleotides using high-performance liquid chromatography 536(1991)85

Use of the 4-methoxy-4'-octyloxytrityl group as an affinity handle for the purification of synthetic oligonucleotides 541(1991)341

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Separation and purification of oligonucleotides using a new bonded-phase packing material 545(1991)79

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

Oligooxyethylene derivatives

Topological indices as structural parameters. Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Oligooxyethylene glycol mono-(4-*tert*-octylphenyl) ethers

Degradation and analysis of oligooxyethylene glycol mono(4-*tert*-octylphenyl) ethers in the presence of acetyl chloride 502(1990)407

Oligopeptides

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Oligosaccharides

Effect of chain length of oligosaccharide in high-performance affinity chromatography of a lectin on oligosaccharide-immobilized columns 502(1990)297

Preparative and analytical separation of oligosaccharides from κ -carrageenan 504(1990)369

Hydrazido-derivatized supports in affinity chromatography (Review) 510(1990)13

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31

High-performance liquid chromatography for the assessment of glucoamylase, immobilized on metallic membranes 536(1991)107

Post-column oligosaccharide dehydrogenase reactor for coulometric detection of malto-oligosaccharides in a liquid chromatographic system 537(1991)443

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Omega acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Omeprazole

Resolution of the enantiomers of omeprazole and some of its analogues by liquid chromatography on a trisphenylcarbamoylcellulose-based stationary phase. The effect of the enantiomers of omeprazole on gastric glands 532(1990)305

Onapristone

Determination of onapristone and its N-desmethyl metabolite in human plasma or serum by high-performance liquid chromatography 532(1990)115

Opines

High-performance liquid chromatographic analysis of octopinic acid, lysopine and nopalinic acid as sensitive indicators of *Agrobacterium*-induced crown gall tumours 514(1990)343

Opium alkaloids

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Organic acids

see also Carboxylic acids and Fatty acids

Feasibility of capillary zone electrophoresis with suppression of electroosmotic flow in completely closed systems 503(1990)245

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Basic profiles of organic acids in urine 525(1990)1

Optimization of inorganic capillary electrophoresis for the analysis of anionic solutes in real samples 546(1991)411

Determination of organic acids in food samples by capillary electrophoresis 546(1991)423

Organic acids, non-volatile

Detection of non-volatile organic acids by head-space gas chromatography 532(1990)374

Organic anions

Simultaneous ion chromatography of inorganic anions together with some organic anions and alkaline earth metal cations using chelating agents as eluents 516(1990)383

Controlled changes of selectivity in the separation of ions by capillary electrophoresis 546(1991)445

Organic bases

Novel, highly deactivated reversed-phase for basic compounds 506(1990)357

Organic halides

Analysis of internal filling gas of small-sized halogen lamps by gas chromatography 520(1990)213

Organochlorine compounds

Gas chromatographic analysis and gas chromatographic-mass spectrometric identification of components in the cyclohexane-extractable fraction from contaminated sediment samples 508(1990)159

Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333

Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214

Organomercury compounds

Evaluation of an alternating current plasma emission detector for high-performance liquid chromatography 513(1990)159

Organometallic compounds

High-performance liquid chromatographic separation of heterometallic 1,1'-bis(diphenylphosphino)ferrocene-substituted metal carbonyls 538(1991)492

High-performance liquid chromatographic determination of optical purity of planar chiral organometallic compounds resolved by enzymic transformations 542(1991)129

Organophosphates

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Organophosphorus compounds

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Organotin compounds

Liquid chromatography of organotin compounds on cyanopropyl silica gel 507(1990)427

Gas chromatographic determination of airborne dialkyltin dichlorides as hydride derivatives 523(1990)273

Ormetoprim

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

Ornidazole

Determination of ornidazole and its main metabolites in biological fluids 534(1990)233

Ornipressin

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

Ornithine

Identification of ferrioxamines by high-performance liquid chromatography and diode-array detection 513(1990)255

Orotic acid

Determination of orotic acid in urine and serum by isotachophoretic analysis 532(1990)144

Orthophosphate

Use of field-flow fractionation to study pollutant-colloid interactions 517(1990)435

Osmium carbonyl clusters

High-performance liquid chromatography of substituted trinuclear osmium carbonyl clusters, $\text{Os}_3(\text{CO})_{12-n}[\text{P}(\text{C}_6\text{F}_5)_3]_n$ ($n=0, 1, 2$) 537(1991)475

Osmolytes, stabilizing

Behaviour of amino acids in gel permeation chromatography. Correlation with the effect of Hofmeister solutes on the conformational stability of macromolecules 510(1990)41

Ovalbumin

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Ovomucoid

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

Oxalate

Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223

Rapid determination of urinary oxalate by high-performance liquid chromatography 529(1990)402

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Oxalic acid

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Oxatamide

Rapid determination of serum oxatamide levels with on-line precolumn solid-phase extraction 530(1990)469

Oxazolam

Collection of analytical data for benzodiazepines and benzophenones. Appendix 538(1991)277

Oxazolones

Chromatographic behaviour of diastereoisomers. X. Thin-layer chromatographic retentions on silica of some (*E*- and (*Z*)-oxazolones and related cinnamates as a function of mobile phase effects or Hammett constants 545(1991)161

Oxcarbazepine

Simple and rapid micro-analytical high-performance liquid chromatographic technique for the assay of oxcarbazepine and its primary active metabolite 10-hydroxyoxcarbazepine 528(1990)473

Oximes

Gas chromatographic analyses of hydroxyoxime extractants of metals and their intermediates. I. Alkylsalicylaldehyde oximes 503(1990)442

Determination of the oximes 2-hydroxyimino-methyl-3-methyl-1-[2-(3-methyl-3-nitrobutyloxy-methyl)]imidazolium chloride and 1-[1-(3-butynyl-oxymethyl)]-2-hydroxyiminomethyl-3-methyl-imidazolium chloride in plasma by high-performance liquid chromatography 527(1990)361

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Oxiracetam

Direct chromatographic separation of the enantiomers of oxiracetam 508(1990)208

Oxolinic acid

Analysis of oxolinic acid in fish by high-performance liquid chromatography 530(1990)75

Simple and rapid method for the determination of flumequine and oxolinic acid in salmon (*Salmo salar*) plasma by high-performance liquid chromatography and fluorescence detection 530(1990)452

Automated column-switching high-performance liquid chromatographic determination of flumequine and oxolinic acid in extracts from fish 532(1999)363

Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

4-Oxopyridopyrimidine

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Oxprenolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP® column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Oxybenzone

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Oxypaeoniflorin

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Oxyphenbutazone

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Oxypurinol

Simultaneous determination of allopurinol and oxypurinol by liquid chromatography using immobilized xanthine oxidase with electrochemical detection 530(1990)65

Oxytocein

High-performance liquid chromatographic study of the reduction of protected oxytocein by sodium in liquid ammonia 507(1990)59

Oxytocin

High-performance liquid chromatographic study of the reduction of protected oxytocin by sodium in liquid ammonia 507(1990)59

Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244

Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137

Animal test or chromatography? Validated high-performance liquid chromatographic assay as an alternative to the biological assay for ornipressin 548(1991)335

P

Paclobutrazol

Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209

Paeoniflorin

Analysis of the components of *Paeonia radix* by capillary zone electrophoresis 515(1990)653

Palatinit®

Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Paldimycins

Estimation of molecular isomer ratios of paldimycin sodium (U-70,138F) by gas chromatography 502(1990)401

Palladium complexes

Paper chromatographic studies of metal complexes. II. Comparison of square planar and octahedral complexes 504(1990)464

Palmitic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Palmityl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Pancuronium

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing

neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Pancuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Pantothenic acid

Simultaneous determination of pantothenic acid and hopantenic acid in biological samples and natural products by gas chromatography-mass fragmentography 525(1990)255

Papaverine

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

Paracetamol

In vivo microdialysis sampling coupled to liquid chromatography for the study of acetaminophen metabolism 506(1990)461

Estimation of the analgesic muscle relaxants chlorzoxazone and diazepam in human plasma by reversed-phase liquid chromatography 528(1990)407

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paracetamol glucuronide

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paracetamol sulphate

Liquid-liquid extraction and analysis of paracetamol (acetaminophen) and its major metabolites in biological fluids by reversed-phase ion-pair chromatography 530(1990)222

Paralytic shellfish poisons

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Paraoxon

Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47

Paraquat

Purification of anti-paraquat monoclonal antibodies by affinity chromatography on immobilised hapten 516(1990)433

Determination of paraquat in rat brain using ion-pair solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 527(1990)189

Pararosanine

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Paraxanthine

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Parsol 1789

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Parsol MCX

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Patent Blue

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Patulin

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Determination of patulin by capillary gas chromatography of the heptafluorobutyrate derivative 538(1991)441

Paulomycins

Estimation of molecular isomer ratios of paldimycin sodium (U-70,138F) by gas chromatography 502(1990)401

Peanut agglutinin

Affinity-repulsion chromatography 510(1990)49

Pectinase

Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227

Pectins

Increasing the purity of polyuronic sorbents 509(1990)239

Pelanserin

Determination of pelanserin in human plasma by high-performance liquid chromatography with amperometric detection 528(1990)501

Penems

High-performance liquid chromatographic method for the simultaneous assay of a new synthetic penem molecule and its salt-forming agent in injectable formulations 507(1990)171

Penicillamine

Ionophoretic studies on mixed complexes. Metal-nitritotriacetate-penicillamine system 542(1991)537

Penicillin amidase

Rapid protein purification using phenylbutylamine-Eupergit: a novel method for large-scale procedures 510(1990)149

Penicillins

Precolumn derivatization technique for high-performance liquid chromatographic determination of penicillins with fluorescence detection 504(1990)359

Determination of penicillin G in milk by high-performance liquid chromatography with automated liquid chromatographic cleanup 507(1990)177

Separation and determination of aspoxicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245

Penicilloylated peptides

Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363

Pentachlorophenol

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Simultaneous assay of pentachlorophenol and its metabolite, tetrachlorohydroquinone, by gas chromatography without derivatization 533(1990)111

Fatty acid conjugates of chlorinated phenols and their high-performance liquid chromatographic analysis 537(1991)85

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

2,4-Pentadienoate-iron tricarbonyl derivatives

High-performance liquid chromatographic separation of racemic and diastereomeric mixtures of 2,4-pentadienoate-iron tricarbonyl derivatives 543(1991)233

Pentafluorobenzyl bromide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Pentafluorobenzylcarboxymethoxime

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Pentafluorophenyl diazoalkanes

Pentafluorophenyldiazoalkanes as novel derivatization reagents for the determination of sensitive carboxylic acids by gas chromatography-negative-ion mass spectrometry 508(1990)349

Pentamorphone

Sensitive method for the determination of pentamorphone in serum by liquid chromatography-mass spectrometry with thermospray interface 534(1990)77

Pentane

Isocratic networks in supercritical fluid chromatography. III. Dependence of capacity factor, selectivity and resolution on temperature, pressure, density and free volume of pentane as shown in multi-dimensional plots 505(1990)99

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Pentazocine

High-performance liquid chromatographic determination of pentazocine in plasma 530(1990)200

Pentoxifylline

Analysis of pentoxifylline in rabbit plasma using a Hisep™ high-performance liquid chromatography column 532(1990)162

Peppermint oil

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Peptides

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

Peptide behaviour and analysis on a chemically stable C₁₈-bonded vinyl alcohol copolymer column with alkaline and acidic eluents 506(1990)327

Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45

High-performance liquid chromatographic study of the reduction of protected oxytocin by sodium in liquid ammonia 507(1990)59

Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

Ion-exchange high-performance liquid chromatographic separation of peptides with UV photometric and electrochemical detection 509(1990)245

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Salt-promoted adsorption chromatography 510(1990)47

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Bioanalysis of the peptide des-enkephalin- γ -endorphin. On-line sample pretreatment using membrane dialysis and solid-phase isolation 511(1990)137

High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Purification of immunomodulatory factors in human peripheral blood leukocytes 512(1990)139

Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165

Chromatography and generation of specific antisera to synthetic peptides from a protective *Boophilus microplus* antigen 512(1990)189

High-performance liquid chromatographic investigations on the cleavage kinetics of side-chain-protected arginine derivatives with a sophisticated post-column reaction detector 512(1990)249

Identification of peptides containing aromatic amino acids, cysteine, iodotyrosine and iodothyronine by high-performance liquid chromatography with photodiode-array detection 512(1990)255

Optimization of high-performance liquid chromatographic peptide separations with alternative mobile and stationary phases 512(1990)273

Analysis of amino acids by liquid chromatography after pre-column derivatization with 4-nitrophenylisothiocyanate 512(1990)283

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Synthetic antibody fragment as ligand in immunoaffinity chromatography 512(1990)337

High-performance ion-exchange chromatography of peptides on a pellicular ion exchanger 513(1990)384

Separation of enantiomeric protected dipeptides by chiral high-performance liquid chromatography 514(1990)325

Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 515(1990)313

Electrochemical detection of dipeptides and dipeptide amides 515(1990)451

Separation of peptide diastereomers by reversed-phase high-performance liquid chromatography and its applications. IV. New derivatization reagent for the enantiomeric analysis of α - and β -amino acids 515(1990)475

Analysis of dilute peptide samples by capillary zone electrophoresis 516(1990)79

Static and scanning array detection in capillary electrophoresis-mass spectrometry 516(1990)147

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Free solution capillary electrophoresis and micellar electrokinetic resolution of amino acid enantiomers and peptide isomers with L- and D-Marfey's reagents 516(1990)241

Immobilized metal ion affinity chromatography. Effect of solute structure, ligand density and salt concentration on the retention of peptides 516(1990)333

Non-porous polybutadiene-coated silicas as stationary phases in reversed-phase chromatography 517(1990)269

High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141

- Capillary electrophoretic separations of peptides using micelle-forming compounds and cyclodextrins as additives 519(1990)189
- Ion-exchange high-performance liquid chromatographic analysis of the products of the enzymatic degradation of oxytocin 519(1990)244
- High-performance liquid chromatography of casein hydrolysates phosphorylated and dephosphorylated. I. Peptide mapping 519(1990)299
- Determination of the lipophilicity of some peptides. Effect of surface pH of silica 520(1990)249
- Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263
- High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333
- Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143
- Use of a short analytical column for the isolation and identification of degradation products of ICI 200 880, a peptidic elastase inhibitor 522(1990)213
- Frontal chromatographic techniques in preparative chromatography 523(1990)11
- Liquid chromatography-mass spectrometry for the qualitative analyses of iminodipeptides in the urine of patients with prolidase deficiency 527(1990)279
- Fluorescence assay for small peptides and amino acids: high-performance liquid chromatographic determination of selected substrates using activated *S*-flunoxapropfen as a chiral derivatizing agent 528(1990)55
- Rapid method based on reversed-phase high-performance liquid chromatography for purification of human myelin basic protein and its thrombic and endoproteinase Lys-C peptides 528(1990)79
- Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235
- Automated precolumn derivatization of amino acids, small peptides, brain amines and drugs with primary amino groups for reversed-phase high-performance liquid chromatography using naphthalenedialdehyde as the fluorogenic label 533(1990)171
- High-performance liquid chromatographic determination of (Me)Arg-Lys-Pro-Trp-*tert*-Leu-Leu in plasma 534(1990)190
- Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided detection for the characterisation of peptides 535(1990)33
- Capillary zone electrophoresis of α_1 -acid glycoprotein fragments from trypsin and endoglycosidase digestions 536(1991)31
- Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123
- Phosphate-gradient high-performance liquid chromatographic method for the analysis of synthetic salmon calcitonin 536(1991)131
- Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137
- High-performance liquid chromatography-time-of-flight mass spectrometry and its application to peptide analyses 536(1991)143
- High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165
- High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337
- Reversed-phase ion-pair liquid chromatography of the angiotensins 536(1991)357

Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates 537(1991)153

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Purification of a synthetic myristylated peptide by counter-current chromatography 538(1991)141

Isolation of bacitracins A and F by high-speed counter-current chromatography 538(1991)203

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Tandem immunoaffinity and reversed-phase high-performance liquid chromatography for the identification of the specific binding sites of a hapten on a proteic carrier 539(1991)363

Immobilized Fe^{3+} affinity chromatographic isolation of phosphopeptides 539(1991)425

Separation of aspartame and its precursor stereoisomers by chiral chromatography 540(1991)392

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

Electrochemical detection of oligopeptides through the precolumn formation of biuret complexes 542(1991)345

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Chiral high-performance liquid chromatography of aromatic cyclic dipeptides using cyclodextrin stationary phases 543(1991)299

Analysis of endoproteinase Arg C action on adrenocorticotrophic hormone by capillary electrophoresis and reversed-phase high-performance liquid chromatography 543(1991)451

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257

Perfusion chromatography packing materials for proteins and peptides 544(1991)267

Peptide separation by gel filtration high-performance liquid chromatography using a gradient elution system 545(1991)183

Capillary electrophoresis of peptides. Analysis of adrenocorticotrophic hormone-related fragments 545(1991)379

Hydrophilic-interaction chromatography of peptides on hydrophilic and strong cation-exchange columns 548(1991)13

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117

High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127

High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147

Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Multi-column preparative reversed-phase sample displacement chromatography of peptides 548(1991)267

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Peptide maps at picomolar levels obtained by reversed-phase high-performance liquid chromatography and pre-column derivatization with phenyl isothiocyanate. Microsequencing of phenylthiocarbamyl peptides 548(1991)303

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluorescamine 548(1991)319

Separation of acidic peptides by reversed-phase ion-pair chromatography. Analytical application to a series of acidic substrates of casein kinases 548(1991)329

Non-radioactive detection of MHC class II-peptide antigen complexes in the sub-picomole range by high-performance size-exclusion chromatography with fluorescence detection 548(1991)343

High-performance liquid chromatographic separation of modified and native melittin following transglutaminase-mediated derivatization with a dansyl fluorescent probe 548(1991)351

Large-scale purification of the synthetic peptide fragment 163-171 of human interleukin- β by multi-dimensional displacement chromatography 549(1991)175

Bioanalysis of the neuropeptide des-enkephalin- γ -endorphin by high-performance liquid chromatography with on-line sample pretreatment using gel permeation and solid-phase isolation 549(1991)185

Peptides, phosphorylated

Reversed-phase high-performance liquid chromatographic separation of synthetic phosphopeptide isomers 512(1990)265

Peptides, tryptic

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Peptide toxins

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Peramine

Analysis of peramine in fungal endophyte-infected grasses by reversed-phase thin-layer chromatography 503(1990)288

Perchlorate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Perfluorocarbons

Radiofrequency detector for gas chromatography 520(1990)97

Permanent gases

Radiofrequency detector for gas chromatography 520(1990)97

Permethrine

Determination of permethrine and tetramethrine by isotachophoretic analysis of hydrolytic products 545(1991)427

Peroxidase

Rapid detection and quantification of peroxidase activity in liquid chromatography 539(1991)198

Highly active enzyme preparations immobilized via matrix-conjugated anti-Fc antibodies 539(1991)335

Peroxyacetyl nitrate

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99

Peroxyacid-uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of

patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

Peroxyoxalate

Post-column adjustment of conditions for peroxyoxalate chemiluminescence detection for high-performance liquid chromatography 503(1990)155

Naphthalene- and anthracene-2,3-dialdehyde as precolumn labelling reagents for primary amines using reversed- and normal-phase liquid chromatography with peroxyoxalate chemiluminescence detection 511(1990)155

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Peroxypropionyl nitrate

Determination of peroxyacetyl nitrate, peroxypropionyl nitrate and alkyl nitrates of atmospheric importance using capillary columns 541(1991)99

Perphenazine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Pertussis toxin

Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227

Perylene

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Pesticides

High-performance liquid chromatographic determination of the herbicide glyphosate and its

metabolite (aminomethyl)phosphonic acid and their extraction from cyanobacteria 502(1990)201

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

High-performance liquid chromatographic determination of dibutylthiocarbamate degradation products in cucumbers and soil 502(1990)214

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Determination of chlorpyrifos in water by large-volume direct aqueous injection capillary gas chromatography 503(1990)377

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

High-performance liquid chromatographic separation of cyromazine and its metabolite melamine 505(1990)413

Determination of warfarin in drinking water by high-performance liquid chromatography after solid-phase extraction 507(1990)381

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

- Optimization of the postcolumn hydrolysis reaction on solid phases for the routine high-performance liquid chromatographic determination of N-methylcarbamate pesticides in food products 507(1990)459
- Gas-liquid chromatographic analysis of ethyl fenthion in tissues of native birds 508(1990)199
- Simultaneous determination of insecticides, acaricides and fungicides by thin-layer chromatography 509(1990)263
- Some possibilities of combining high-performance liquid chromatography with isotachopheresis for the trace determination of ionogenic compounds present in complex matrices 509(1990)271
- Neutral, alkaline and difference ultraviolet spectra of secondary metabolites from *Penicillium* and other fungi, and comparisons to published maxima from gradient high-performance liquid chromatography with diode-array detection 511(1990)195
- Determination of enantiomeric purity of paclobutrazol and fluazifop-P-butyl using a diode-laser-based polarimetric high-performance liquid chromatography detector 513(1990)209
- Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219
- Behaviour of 23 persistent organochlorine compounds during sulphuric acid clean-up on a solid-matrix column 513(1990)333
- Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389
- Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [¹⁴C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209
- Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441
- Analysis of the pesticide flufenoxuron in apples and kiwifruit by high-performance liquid chromatography 516(1990)442
- Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446
- Pesticide analysis by gas chromatography with a novel atomic emission detector 517(1990)131
- Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477
- Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491
- Simultaneous determination of trace concentrations of benomyl, carbendazim (MBC) and nine other pesticides in water using an automated on-line pre-concentration high-performance liquid chromatographic method 518(1990)242
- Analyse par chromatographie liquide du diamino-2,3 phénazine et de l'hydroxy-2 amino-3 phénazine dans les carbendazimes techniques et formulés 518(1990)375
- Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268
- Comparative study of some columns for direct determination of carbofuran by gas-liquid chromatography with nitrogen-specific detection 519(1990)359
- Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223
- Determination of nine acidic herbicides in water and soil by gas chromatography using an electron-capture detector 537(1991)385
- Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99
- Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233
- Gas chromatographic-mass spectrometric determination of oxolinic acid in fish using selected ion monitoring 538(1991)259
- Liquid chromatographic determination of carbendazim in the presence of some normal soil constituents with photodiode-array detection 538(1991)480

- Determination of organophosphorus and carbamate pesticide standards by liquid chromatography with detection by inhibition of immobilized acetylcholinesterase 539(1991)47
- Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207
- High-performance liquid chromatographic separation of fenthion and its metabolites 540(1991)406
- Determination of glyphosate and its major metabolite aminomethylphosphonic acid by high-performance liquid chromatography after derivatization with *p*-toluenesulphonyl chloride 540(1991)411
- Use of low-purity solvents and reagents for analysis of residues of synthetic pyrethroid pesticides by gas chromatography with electron-capture detection 540(1991)464
- Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21
- Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35
- Enantiomeric separation of substituted 2-aryloxy propionic esters. Application to the determination of the enantiomeric excess in herbicide formulations 541(1991)349
- Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359
- Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbo-pack cartridge followed by liquid chromatography 541(1991)365
- Determination of chlorophenoxy acids using high-performance liquid chromatography-particle beam mass spectrometry 542(1991)385
- Gas chromatographic determination of aldicarb and its metabolites in urine 542(1991)526
- Direct determination of metamitron in surface water by large sample volume injection 543(1991)244
- Multiple-development high-performance thin-layer chromatography of organochlorine pesticides 545(1991)214
- Determination of permethrin and tetramethrin by isotachopheric analysis of hydrolytic products 545(1991)427
- Determination of carbaryl and 1-naphthol in English apples and strawberries by combined gas chromatography-fluorescence spectrometry 547(1991)345
- Gas chromatographic system for the identification of halogenated pesticides by retention indices using *n*-alkanes as standards 547(1991)355
- Determination of phenoxyacid herbicides in water 547(1991)478
- Determination of diclofop-methyl and diclofop residues in soil and crops by gas chromatography 547(1991)509
- High-performance liquid chromatographic determination of atrazine, deisopropylatrazine and deethylatrazine in soils from corn fields 549(1991)229
- Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237
- Petroleum**
Identification and analysis of trimethylbiphenyls in petroleum 538(1991)424
- Pharmaceuticals**
Pharmaceutical analysis by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 538(1991)506
- Phaseic acid**
Optical resolution of abscisic acid metabolites using an ovomucoid-conjugated high-performance liquid chromatographic column 508(1990)217
- Phenanthrene**
Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Solubility parameter treatment for the characterization of the stationary phase in the reversed-phase chromatography of benzene derivatives 515(1990)3

Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245

Phenanthrols

Liquid chromatographic separation of isomeric phenanthrols on monomeric and polymeric C₁₈ columns 536(1991)245

Phencyclidine

Detection of low nanogram quantities of phencyclidine extracted from human urine. Preparation of an acetylated column packing material for use in gas chromatography with nitrogen-phosphorus detection 528(1990)208

Phenetylammonium

Determination of 10-camphorsulphonates in pharmaceutical formulations by high-performance liquid chromatography 511(1990)367

Phenobarbital

Design of a photoionization detector for high-performance liquid chromatography using an automated liquid-to-vapor phase interface and application to phenobarbital in an animal feed and to amantadine 505(1990)319

Metabolic studies with phenobarbitone, primidone and their N-alkyl derivatives: quantification of substrates and metabolites using chemical ionization gas chromatography-mass spectrometry 526(1990)59

Direct serum injection high-performance liquid chromatographic method for the simultaneous determination of phenobarbital, carbamazepine and phenytoin 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface

reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Phenolic acids

Analysis of aliphatic and phenolic carboxylic acids by capillary supercritical fluid chromatography-Fourier-transform infrared microspectrometry 505(1990)179

Applications of gel filtration chromatography for resolite phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Separation and identification of free phenolic acids in wines by high-performance liquid chromatography 537(1991)93

Phenolic compounds

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Resolution of complex mixtures of phenolics in poplar bud exudate by analysis of gas chromatography-mass spectrometry data 519(1990)145

Étude par chromatographie liquide haute performance des antioxydants phénoliques présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Improvement of on-line detection in high-speed counter-current chromatography: UV absorptiometry and evaporative light-scattering detection 538(1991)91

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Evaluation of gas chromatography-Fourier transform infrared spectroscopy-mass spectrometry for analysis of phenolic compounds 549(1991)297

Phenol red

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Phenols

Displacement chromatography on packed capillary columns 502(1990)11

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

High-precision sampling of trace gas-borne volatiles by the dynamic solvent effect with a comparative review of alternative techniques 504(1990)21

Comparison of various stationary phases for normal-phase high-performance liquid chromatography of ethoxylated alkylphenols 504(1990)297

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Optimization of chromatographic methods by a combination of optimization software and expert systems 506(1990)169

Selective determination of trace levels of phenol in river water using electrochemical concentration modulation correlation chromatography 506(1990)201

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Determination of phenol in poly(vinyl chloride) 507(1990)417

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and dynamic headspace analysis using a mass-selective detector 509(1990)101

Use of polymeric sorbents for the off-line preconcentration of priority pollutant phenols from water for high-performance liquid chromatographic analysis 509(1990)135

Simultaneous optimization of variables influencing selectivity and elution strength in micellar liquid chromatography. Effect of organic modifier and micelle concentration 511(1990)17

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Characterization of an adamantly-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

Capillary zone electrophoretic separation of chlorophenols in industrial waste water with on-column electrochemical detection 514(1990)389

Phenols as internal standards in reversed-phase high-performance liquid chromatography in pharmaceutical analysis 515(1990)305

Retention of eleven priority phenols using micellar electrokinetic chromatography 516(1990)263

Gas chromatographic determination of phenol compounds with automatic continuous extraction and derivatization 518(1990)59

Study of the characteristics and analytical application of a capillary chromatograph with an electrochemical detector 520(1990)307

Poly(crown ether) stationary phase for open-tubular capillary column chromatography 521(1990)128

Computer simulation for optimization of high-performance liquid chromatography of some phenolic pollutants 523(1990)81

Determination of phenol, *m*-, *o*- and *p*-cresol, *p*-aminophenol and *p*-nitrophenol in urine by high-performance liquid chromatography 535(1990)311

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Analysis of biomass pyrolysis liquids: separation and characterization of phenols 542(1991)263

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Step change of co-ion, a new option in capillary zone electrophoresis 545(1991)331

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Phenothiazines

Application of a computer-assisted high-performance liquid chromatographic multi-wavelength ultraviolet detection system to simultaneous toxicological drug analyses 506(1990)133

Phenoxyacetic acids

Separation and determination of acidic herbicides on a PRP-1 polymeric column 513(1990)219

Phenoxy acids

Screening method for phenoxy acid herbicides in ground water by high-performance liquid chromatography of 9-anthryldiazomethane derivatives and fluorescence detection 541(1991)359

Determination of phenoxyacid herbicides in water 547(1991)478

Phenprocoumon

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Analysis of phenprocoumon and its hydroxylated and conjugated metabolites in human urine by high-performance liquid chromatography after solid-phase extraction 530(1990)347

Phentermine

Détection spécifique par chromatographie gazeuse-spectrométrie de masse des amines

sympathomimétiques urinaires dans le cadre des contrôles antidopage 541(1991)109

Standardization of a multi-wavelength UV detector for liquid chromatography-based toxicological analysis 550(1991)449

Phenylacetic mustard

High-performance liquid chromatographic analysis of chlorambucil *tert.*-butyl ester and its active metabolites chlorambucil and phenylacetic mustard in plasma and tissue 534(1990)279

Phenylalanine

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Competition between phenylalanine and acetic acid in a chromatographic column as indicated by their adsorption isotherms 517(1990)285

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Analytical- and preparative-scale chromatographic separation of phenylalanine from aspartame using a new polymeric sorbent 540(1991)85

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Gradient elution methods for predicting isocratic conditions (Review) 550(1991)425

Phenylalanine anilide

Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323

Phenylalanine derivatives

Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives
504(1990)450

Phenylalanine methyl ester

Breakthrough curves of insulin, [D-Phe⁶]-Gonadotropin-releasing hormone and phenylalanine methyl ester on copolymers of alkylacrylate and divinylbenzene 537(1991)167

N-Phenylamides

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Phenylaminesulphonic acids

Separation of phenylamine- and naphthylaminesulphonic acids by reversed-phase high-performance liquid chromatography
523(1990)247

Effect of organic modifier concentration on retention in reversed-phase ion-pair liquid chromatography 545(1991)59

1-Phenyl-2-aminopropane

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase
543(1991)287

Phenyl-ONN-azoxycyanides

Reversed-phase high-performance liquid chromatographic study of the lipophilicity of a series of analogues of the antibiotic "calvatic acid" 547(1991)167

Phenylbutazone

Improved stability of phenylbutazone for its determination by liquid chromatography
530(1990)160

Phenylcarbamates

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants)
519(1990)337

Phenylenediamines

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes
518(1990)149

2-Trichloromethylbenzimidazole, a selective chromogenic reagent for the detection of *o*-phenylenediamine on thin-layer plates
541(1991)480

2-Phenylethanol

Stationary phase effects in reversed-phase liquid chromatography under overload conditions
550(1991)301

1-Phenylethylamides

High-resolution gas chromatographic resolution of chiral primary alcohols and acids as their diastereomeric 1-phenylethyl amides
519(1990)263

1-Phenylethylamine

Separation of carboxylic acid enantiomers by gas chromatography after rapid derivatization with (*R*)- or (*S*)-1-phenylethylamine after activation by ethyl chloroformate 508(1990)333

2-Phenylethylamine

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes
518(1990)149

3-Phenylformazan

Formazan derivatives as the precolumn derivatization reagents in a coupled high-performance liquid chromatographic-spectrophotometric system for trace metal determination 515(1990)603

Phenyl glycidyl ether

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy
504(1990)113

Comparison of the isolation of adducts of 2'-deoxycytidine and 2'-deoxyguanosine with phenylglycidyl ether by high-performance liquid chromatography on a reversed-phase column and a polystyrene-divinylbenzene column
541(1991)317

Liquid chromatographic analysis of cationic polymerized phenyl glycidyl ether 547(1991)195

Phenylglycine

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of N-[4,4-di(3-methylthien-2-yl)-but-3-enyl] nipecotic acid on a Pirkle-type phenylglycine stationary phase 503(1990)115

Phenylhydrazine

Aldehyde and nucleotide separations by high-performance liquid chromatography. Application to phenylhydrazine-induced damage of erythrocytes and reticulocytes 520(1990)411

(Phenyl)hydroxynaftopidil

High-performance liquid chromatography of naftopidil, a novel antihypertensive drug, and two metabolites in human plasma 534(1990)247

N-Phenyl-N'-isopropyl-p-phenylenediamine

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Phenylisothiocyanate

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Phenylactic acid

Selection of the background electrolyte composition with respect to electromigration dispersion and detection of weakly absorbing substances in capillary zone electrophoresis 545(1991)239

Phenylmercuric nitrate

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Phenyl- β -naphthylamine

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Phenylphenols

Reversed-phase chromatographic separation of selected hydroxyl aromatics with β -cyclodextrin as a mobile phase additive 514(1990)19

Phenylpropanol

Liquid chromatographic evaluation of chiral derivatizing reagents for the resolution of amine and alcohol enantiomers 508(1990)220

Phenylpropanolamine

Electrochemical enhancement of high-performance liquid chromatography-UV detection for determination of phenylpropanolamine 518(1990)167

High-performance liquid chromatographic determination of phenylpropanolamine in human plasma and urine, using column switching combined with ion-pair chromatography 527(1990)103

3-Phenylpropylamine

Determination of aromatic amines at trace levels by ion interaction reagent reversed-phase high-performance liquid chromatography. Analysis of hair dyes and other water-soluble dyes 518(1990)149

Phenylpyrroles

High-performance liquid chromatographic analysis of phenylpyrroles produced by *Pseudomonas cepacia* 508(1990)247

5-Phenyltetrahydrooxazol-2-one

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a preseparation on a non-chiral alkylsilica column 513(1990)195

Phenyltin compounds

Simultaneous determination of butyltin and phenyltin compounds in oysters by capillary gas chromatography 525(1990)105

Phenylureas

Rapid and sensitive determination of phenylurea herbicides in water in the presence of their anilines by extraction with a Carbo-pack cartridge followed by liquid chromatography 541(1991)365

Carrier effect in the analysis of phenylurea herbicides using high-performance liquid chromatography-particle beam-mass spectrometry 549(1991)237

Phenytion

Direct high-performance liquid chromatographic analysis of *p*-hydroxyphenyl-phenylhydantoin glucuronide, the final metabolite of phenytoin, in human serum and urine 526(1990)581

Detection of carbon-14 eluting from a capillary gas chromatograph using chemical reaction interface-mass spectrometry 527(1990)1

Direct serum injection high-performance liquid chromatographic method for the simultaneous determination of phenobarbital, carbamazepine and phenytoin 527(1990)389

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Simultaneous separation and determination (in serum) of phenytoin and carbamazepine and their deuterated analogues by high-performance liquid chromatography-ultraviolet detection for tracer studies 535(1990)271

Simultaneous determination of *p*-hydroxylated and dihydrodiol metabolites of phenytoin in urine by high-performance liquid chromatography 535(1990)279

Pheophorbide a

High-performance liquid chromatography--continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pheophytins

High-performance liquid chromatography--continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pheromones

Analysis of some synthetic insect pheromones by gas-liquid chromatography 509(1990)69

Sample introduction in gas chromatography: simple method for the solventless introduction of crude samples of biological origin 518(1990)207

Liquid crystals for the gas chromatographic determination of the stereochemistry of insect sex pheromones 537(1991)482

Phloxin

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Phloxine B

Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157

Pholcodine

Determination of pholcodine and its metabolites in urine by capillary gas chromatography 532(1990)277

Phomalirazine

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

Phosgene

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Determination of phosgene as its N,N,N',N'-tetraethylurea derivative by gas chromatography 538(1991)435

Phosphamidon

Thin-layer chromatographic detection of endosulfan and phosphamidon by use of cobalt acetate and *o*-tolidine 519(1990)268

Phosphate

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Isotachophoretic separation of organic acids in biological fluids 516(1990)251

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Phosphatidic acids

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylcholine

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Separation and determination of molecular species of phosphatidylcholine in biological samples by high-performance liquid chromatography 507(1990)339

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Fractionation of egg and soybean phosphatidylcholines by silver resin chromatography 538(1991)469

Phosphatidylethanolamines

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylinositols

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Phosphatidylserine

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Phosphine oxides

Analysis of *n*-octyl(phenyl)-N,N-diisobutylcarbamoylmethylphosphine oxide and TRUEx process solvent by gas and liquid chromatography 516(1990)395

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Phosphines, sulphonated

Chiral sulphonated phosphines. IV. High-performance liquid chromatographic separation of sulphonated phosphines 514(1990)91

2-5A Phosphodiesterase

Isotachophoretic determination of 2-5A phosphodiesterase 545(1991)407

Phosphofructokinase

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

6-Phosphogluconate dehydrogenase

Screening method for large numbers of dye-adsorbents for enzyme purification 510(1990)155

Phosphoglycerate kinase

Use of an activated nylon membrane (Immunodyne) as an affinity adsorbent for the purification of phosphofructokinase and phosphoglycerate kinase from yeast 502(1990)171

Phosphogypsum

Investigation of phase transitions in the $\text{CaSO}_4(\text{s})\text{-H}_2\text{O}(\text{g})$ system by chromatographic methods 520(1990)157

Phospholipase A₂ analogues

Simple fractionation of phospholipase A₂ analogues from snake venom by high-performance liquid chromatography 530(1990)129

Phospholipase-C

Purification of phospholipase-C from *Bacillus cereus* by affinity chromatography on 2-(4-aminophenylsulphonyl)ethyl-cellulose 525(1990)307

Phospholipids

Behaviour of vegetable phospholipids in thin-layer chromatography. Optimization of mobile phase, detection and direct evaluation 502(1990)385

Separation of the enantiomeric intermediates of some platelet-activating factor analogues on a naphthylalanine-type Pirkle column 506(1990)611

Quantitative determination of cholesterol in liposome drug products and raw materials by high-performance liquid chromatography 507(1990)157

Isolation and purification of lecithin by preparative high-performance liquid chromatography 517(1990)219

Sensitive analysis of phospholipid molecular species by high-performance liquid chromatography using fluorescent naproxen derivatives of diacylglycerols 518(1990)157

Quantitation of hexadecylphosphocholine by high-performance thin-layer chromatography with densitometry 525(1990)85

Solid-phase extraction on silica cartridges as an aid to platelet-activating factor enrichment and analysis 526(1990)11

Improved one-dimensional thin-layer chromatography for the separation of phospholipids in biological material 533(1990)297

Fractionation of egg and soybean phosphatidylcholines by silver resin chromatography 538(1991)469

Interactions of the mitochondrial membrane rat liver D-3-hydroxybutyrate dehydrogenase with glass beads during adsorption chromatography. Relationships with the activation of the enzyme by phospholipids 539(1991)279

Determination of phospholipids on two-dimensional thin-layer chromatographic plates by imaging densitometry 543(1991)201

H-Phosphonates

Rapid and sensitive determination of nucleoside H-phosphonates and inorganic H-phosphonates by high-performance liquid chromatography coupled with flow-injection analysis 507(1990)103

Phosphonoformic acid

Determination of phosphonoformic acid in human plasma and urine by high-performance liquid chromatography with electrochemical detection 525(1990)133

Phosphopeptides

Immobilized Fe³⁺ affinity chromatographic isolation of phosphopeptides 539(1991)425

Phosphoproteins

Separation of phosphoproteins by fast protein liquid chromatography 527(1990)152

Phosphoric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Isotachopheretic separation of organic acids in biological fluids 516(1990)251

Phosphorothioate oligodeoxynucleotides

High-performance liquid chromatographic analysis of phosphorothioate analogues of oligodeoxynucleotides in biological fluids 533(1990)133

Phosphorothioate oligonucleotides

Analytical study of phosphorothioate analogues of oligodeoxynucleotides using high-performance liquid chromatography 509(1990)396

Phosphorus

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Phosphorus oxychloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Phosvettes

Preparation and rapid resolution of *Xenopus* phosvitins and phosvettes by high-performance liquid chromatography 519(1990)75

Phosvitins

Preparation and rapid resolution of *Xenopus* phosvitins and phosvettes by high-performance liquid chromatography 519(1990)75

o-Phthalaldehyde

Automated precolumn derivatization of amino acids with *ortho*-phthalaldehyde using a hollow-fibre membrane reactor 502(1990)317

Phthalates

Optimization of the isocratic high-performance liquid chromatographic separation of selected phthalates using the overlapping resolution mapping technique 513(1990)360

Separation of phthalates by micellar electrokinetic chromatography 542(1991)473

Phthalides

Applications of high-speed counter-current chromatography for the separation and isolation of natural products 538(1991)193

4-(N-Phthalimidyl)benzenesulphonyl chloride

Phthalimidylbenzenesulphonyl chlorides as fluorescence labelling reagents for amino acids in high-performance liquid chromatography 502(1990)178

Phthalocyanine dilithium

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Phyllostine

Applications of high-performance liquid chromatography to quantitation of metabolites and enzymes of the patulin pathway from *Penicillium patulum* 513(1990)237

Physostigmine

High-performance liquid chromatographic enantioseparation of intermediates relating to the

total synthesis of (-)-physostigmine
523(1990)317

Simultaneous determination of physostigmine and tetrahydroaminoacridine in a transdermal permeation study by high-performance liquid chromatography 526(1990)87

Sensitive analysis of plasma physostigmine levels using dual-cell electrochemistry in the redox mode 526(1990)97

Phytoalexins

Separation and identification of phytoalexins from leaves of groundnut (*Arachis hypogaea*) and development of a method for their determination by reversed-phase high-performance liquid chromatography 547(1991)185

Phytoecdysteroids

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Phytosterols

Gas chromatographic determination of sterols in fat-soluble concentrates obtained from plant materials 509(1990)79

Phytotoxins

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

Piaselenoles

Cyclic arylenazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Picene

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

β -Picoline

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Picric acid

Isotachophoretic analyser equipped with a scanning ultraviolet photometric detection system 538(1991)403

Pigments

Sedimentation field-flow fractionation for pigment quality assessment 517(1990)395

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C_{18} high-performance liquid chromatographic column 543(1991)137

Pindolol

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

α -Pinene

Analysis of packaged orange juice volatiles using headspace gas chromatography 540(1991)456

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

β -Pinene

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Pipecuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Piperidine

Determination of methamphetamine, amphetamine and piperidine in human urine by high-performance liquid chromatography with chemiluminescence detection 515(1990)459

Piracetam

Determination of piracetam in serum by gas chromatography 526(1990)556

Piromidic acid

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Piroxicam

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Planar molecules

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Plant hormones

see also Auxins and Indoles

Semi-automated method for the determination of abscisic acid in crude plant extracts 503(1990)459

Gradient C₁₈ high-performance liquid chromatography of gibberellins 543(1991)471

Plasmalogen

Simple method for the analysis of glycerol enol ethers derived from plasmalogens in complex lipid mixtures and subsequent determination of the aldehydic components by gas chromatography-mass spectrometry 526(1990)303

Plasmids

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Analysis and purification of DNA restriction fragments by high-performance liquid chromatography 548(1991)281

Plasminogen

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

Tryptic fingerprinting on a poly(styrene-divinylbenzene) reversed-phase column 512(1990)315

Affinity purification of plasminogen by radial-flow affinity chromatography 539(1991)531

Plasminogen activator, hybrid

Purification of a hybrid plasminogen activator protein 539(1991)485

Platelet-activating factor

Separation of the enantiomeric intermediates of some platelet-activating factor analogues on a naphthylalanine-type Pirkle column 506(1990)611

Solid-phase extraction on silica cartridges as an aid to platelet-activating factor enrichment and analysis 526(1990)11

Detection of lyso-platelet-activating factor by high-performance liquid chromatography after derivatisation with fluorescent fatty acids 527(1990)303

Platelet-activating factor antagonist

Determination of a platelet activating factor antagonist (CV-3988): methodology and clinical application 526(1990)515

Platinum

The speciation of iron, manganese, phosphorus and platinum in aqueous solutions by using ion chromatography coupled with an element selective detector 547(1991)211

Platyfylloside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Polar compounds

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Headspace analysis of polar compounds in air 509(1990)107

Reversed-phase liquid chromatographic column switching for the trace-level determination of polar compounds. Application to chloroallyl alcohol in ground water 511(1990)243

Reversed-phase liquid chromatography of polar benzene derivatives on poly(vinylbenzo-18-crown-6)-immobilized silica as a stationary phase 522(1990)107

Development of a phase system for intermediate polarity compounds in centrifugal partition chromatography 547(1991)69

Polar drugs

Comparison of retention index scales based on alkyl aryl ketones, alkan-2-ones and 1-nitroalkanes for polar drugs on reversed-phase high-performance liquid chromatography 537(1991)51

Pollen

Allergenic fragments in *Parietaria judaica* pollen extract 542(1991)337

Pollutants

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

Pollutants, organic

Thermal desorption of organic pollutants enriched on activated carbon. V. Desorption behaviour and temperature profile 520(1990)131

Polyacrylates

Fate of superabsorbents in the environment. Analytical techniques 513(1990)93

Polyalkylenes

Polyalkylenes used as stationary phases for preparative reversed-phase liquid chromatography 520(1990)263

Polyamide

Examination of organic trace contamination and thermo-oxidative deterioration of ϵ -caprolactam by high-performance liquid chromatography 508(1990)149

Novel media for chromatography and immobilization using a radiation grafting technique 510(1990)115

Polyamine oxidase

Reversed-phase high-performance liquid chromatographic method for the measurement of polyamine oxidase activity 533(1990)187

Polyamines

Separation of spermidine derivatives by reversed-phase high-performance liquid chromatography using a UV-absorbing counter ion 508(1990)229

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Polyaminocarboxylic acid

Capillary tube isotachophoretic separation of lanthanide complexes using polyaminocarboxylic acid as terminating ion 540(1991)475

Polyamino ligands

Coupling of mono- and polyamino ligands to solid phases by nucleophilic attack on coupling groups that may be spontaneously hydrolysed 525(1990)246

Polyaromatic compounds

Physicochemical model of retention for capillary supercritical fluid chromatography 505(1990)79

Use of high-performance liquid chromatography in the pharmaceutical industry 507(1990)141

Structure-retention correlation in liquid chromatography (Review) 550(1991)313

Polybrene

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Polycarboxylic acids

Role of additives in packed column supercritical fluid chromatography: suppression of solute ionization 547(1991)377

Polychlorinated benzenes

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Polychlorinated biphenyls

Isolation of toxic polychlorinated biphenyls by electron donor-acceptor high-performance liquid chromatography on a 2-(1-pyrenyl) ethyldimethylsilylated silica column 507(1990)389

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Supercritical fluid chromatography of polychlorinated biphenyls on packed columns 522(1990)267

Separation of polychlorinated terphenyls from lipoidal material by preparative gel permeation chromatography and gas chromatography 539(1991)149

Polychlorinated dibenzo-*p*-dioxins

Gas chromatographic determination of polychlorinated dibenzo-*p*-dioxins in wood preservatives 502(1990)160

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Polychlorinated dibenzofurans

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Extraction and clean-up procedure for polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fly ash from municipal solid waste incinerators 523(1990)265

Gas chromatographic separations of all 136 tetra- to octa-polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans on nine different stationary phases 541(1991)131

Dual-column high-performance liquid chromatographic cleanup procedure for the determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in fish tissue 543(1991)49

Polychlorinated phenols

Analyses of polychlorinated dibenzo-*p*-dioxins and dibenzofurans and precursors in fly ash samples collected at different points in post-combustion zone of Japanese machida incinerator 511(1990)281

Polychlorinated terphenyls

Separation of polychlorinated terphenyls from lipoidal material by preparative gel permeation chromatography and gas chromatography 539(1991)149

Poly[(chloromethoxytrialanine methyl ester)-phosphazene]

Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxytrialanine methyl ester)phosphazenes] 536(1991)255

Polyclonal antibodies

Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243

Polycyclic aromatic hydrocarbons

see Polynuclear aromatic hydrocarbons

Polycyclic hydrocarbons

High-performance liquid chromatographic method for the determination of polycyclic hydrocarbon metabolite distributions 530(1990)337

Poly(diallyldimethylammonium chloride)

Effect of polymer ion concentrations on migration velocities in ion-exchange electrokinetic chromatography 515(1990)667

Polydimethyl silicones

Ion mobility detection of polydimethylsilicone oligomers following supercritical fluid chromatographic separation 505(1990)215

Polyelectrolytes

Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93

Polyenoic acids

Identification of very long polyenoic acids as picolinyl esters by Ag⁺ ion-exchange high-performance liquid chromatography, reversed-

phase high-performance liquid chromatography and gas chromatography-mass spectrometry 513(1990)344

Polyesters

Phase transition chromatography of polyesters on macroporous glycidyl methacrylate-ethylene dimethacrylate copolymers 509(1990)233

Polyethers

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Polymer ligands for mild hydrophobic interaction chromatography —principles, achievements and future trends (Review) 539(1991)297

Polyethylene

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Polyethylene glycol adipate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Polyethylene glycols

Isotachophoretic separation of alkali and alkaline earth metal cations in water-polyethylene glycol mixtures 502(1990)143

Surface affinity chromatographic separation of blood cells. VII. Relationship between capacity factors of human peripheral blood cells and the rate of penetration of liquids into xerogel column packings 504(1990)69

Settling-time dependence of rat bone marrow cell partition and counter-current distribution in charge-sensitive aqueous two-phase systems. Relationship with the cell partitioning mechanism 504(1990)79

Supercritical fluid chromatography with light-scattering detection. I. Preliminary results of the analysis of polar compounds with packed columns 505(1990)191

Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271

Aqueous two-phase systems with increased density for partition of heavy particles 522(1990)235

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Partitioning of cells in dextran-poly(ethylene glycol) aqueous phase systems. A study of settling time, vessel geometry and sedimentation effects on the efficiency of separation 542(1991)397

Polyethylene oxide

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Polyfluorinated 2,1,3-benzoselenadiazoles

Cyclic arylenazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Polyhydroxy compounds

Speciation of polyhydroxy compounds by gas chromatography-mass spectrometry with deuterium oxide chemical ionization 520(1990)209

Polymer additives

Quantitative analysis of additives in polymers using coupled supercritical fluid extraction-supercritical fluid chromatography 505(1990)273

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Polymers

Preliminary results on the gas chromatographic evaluation of interpenetrating polymer networks prepared from porous polymer beads 502(1990)393

Achievements and uses of critical conditions in the chromatography of polymers 507(1990)487

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Theoretical aspects of the chromatographic analysis of heterogeneous polymers 511(1990)49

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Molecular recognition in synthetic polymers: preparation of chiral stationary phases by molecular imprinting of amino acid amides 513(1990)167

Behaviours of siloxane polymers containing phenyl or silylene as stationary phases for high-temperature gas chromatography 514(1990)259

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Enantiomeric resolution on molecularly imprinted polymers prepared with only non-covalent and non-ionic interactions 516(1990)313

Enantiomeric resolution of amino acid derivatives on molecularly imprinted polymers as monitored by potentiometric measurements 516(1990)323

Gel permeation chromatography-Fourier transform infrared study of some synthetic polymers. II. Instrumentation for the characterization of polyethylene 517(1990)209

Retention effects in thermal field-flow fractionation 517(1990)377

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Application de la dérivation par l'isocyanate de phényle à l'analyse chromatographique de molécules phénoliques (antioxydants) 519(1990)337

Determination of residual acrylamide monomer in solution and emulsion polymers by column-switching high-performance liquid chromatography 519(1990)363

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

Cation-exchange high-performance liquid chromatography of synthetic salmon calcitonin 536(1991)123

Evaluation of chemical structural heterogeneity of cationic acrylamide copolymers by high-performance liquid chromatography 536(1991)203

Polymer ligands for mild hydrophobic interaction chromatography—principles, achievements and future trends (Review) 539(1991)297.

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Separation of copolymers according to composition with special emphasis on the effect of block structure 550(1991)629

Hydrodynamic and size-exclusion chromatography of polymers on porous particles 550(1991)721

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Polymethoxylated flavones

Gas chromatography of some polymethoxylated flavones and their determination in orange peel oils 549(1991)440

Poly(methyl methacrylate)

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Poly(methyl methacrylate-styrene)

Sample remaining in an ODS column after compositional fractionation of copolymers by high-performance liquid chromatography 547(1991)429

Polynuclear aromatic hydrocarbons

Optimization of mobile phase composition for high-performance liquid chromatographic separation by means of the overlapping resolution mapping scheme 506(1990)245

Long-term use of liquid-crystalline stationary phase for separation and determination of polynuclear aromatic hydrocarbons in carbochemical products. Comparison of results obtained by different methods 509(1990)53

Anomalous behavior of selected methyl-substituted polycyclic aromatic hydrocarbons in reversed-phase liquid chromatography 514(1990)111

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Retention of benzo[*a*]pyrene on cyclodextrin-bonded phases 516(1990)355

Silicas chemically bonded with multidentate phenyl groups as stationary phases in reversed-phase liquid chromatography used for non-planarity recognition of polycyclic aromatic hydrocarbons 517(1990)193

Separation of phenols and aromatic hydrocarbons from biomass tar using aminopropylsilane normal-phase liquid chromatography 538(1991)303

Capillary gas chromatographic and combined gas chromatography-mass spectrometric study of the volatile fraction of a coal tar pitch using OV-1701 stationary phase 539(1991)157

Polar bonded phase with the zwitterionic sulfobetaine functional group. Comparison to silica 544(1990)113

Factors governing the analytical supercritical fluid extraction and supercritical fluid chromatographic retention of polycyclic aromatic hydrocarbons 545(1991)149

Use of Ce(IV) oxidizing agent for the derivatization of polycyclic aromatic hydrocarbons for liquid chromatography-electrochemical detection 550(1990)585

Polynuclear aromatic hydrocarbons, nitrated

Effect of temperature and organic modifier on the isocratic retention characteristics of nitrated polycyclic aromatic hydrocarbons on a reversed-phase octadecylsilane column 513(1990)117

High-performance liquid chromatography retention index and detection of nitrated polycyclic aromatic hydrocarbons 539(1991)1

Polynucleotides

High-performance affinity chromatography of DNA 508(1990)279

Capillary gel electrophoresis for DNA sequencing. Laser-induced fluorescence detection with the sheath flow cuvette 516(1990)61

High-performance liquid chromatography of synthetic oligonucleotides. A new affinity protecting group 549(1991)207

Polyol dehydrogenase

Affinity gel interactions of alcohol and polyol dehydrogenases: anomalous behaviour and structural correlations 502(1990)69

Polyols

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Polyoxyethylene

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Semipermeable-surface reversed-phase media for high-performance liquid chromatography 544(1991)25

Polyoxyethylene(23)dodecanol

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35® 517(1990)549

Polyoxyethylene glycol mono(4-alkylphenyl) ethers

Degradation and analysis of commercial polyoxyethylene glycol mono(4-alkylphenyl) ethers 511(1990)325

Polypeptides

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

High-performance liquid chromatographic separation and partial characterization of the α - and β -chains of Alaskan sockeye salmon hemoglobin 512(1990)291

Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325

Recent developments in electrophoretic methods (Review) 516(1990)3

Identification of aprotinin degradation products by the use of high-performance capillary electrophoresis, high-pressure liquid chromatography and mass spectrometry 516(1990)175

High-performance liquid chromatography of rat and mouse islet polypeptides: potential risk of oxidation of methionine residues during sample preparation 530(1990)29

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Chronic myelogenous leukaemia-associated polypeptide in platelets detected by two-dimensional polyacrylamide gel electrophoresis 533(1990)207

Performance of wide-pore silica- and polymer-based packing materials in polypeptide separation: effect of pore size and alkyl chain length 535(1990)13

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. II. Effect of the stationary phase 542(1991)83

Ion-exchange high-performance liquid chromatography of nucleotides and polypeptides on new types of ion-exchange sorbents, based on polystyrene-coated silicas 548(1991)207

Polyphenolic compounds

Counter-current chromatography of black tea infusions 505(1990)357

Polyphosphates, cyclic

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Computer-assisted retention prediction system for inorganic cyclic polyphosphates and its application to optimization of gradients in anion-exchange chromatography 550(1991)5

Polypropylene

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Study of rapid reaction kinetics by computerized gas chromatography with stroboscopic sampling 517(1990)175

Automatic sampler for Curie-point pyrolysis-gas chromatography with on-column introduction of pyrolysates 518(1990)9

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Polysaccharide-protein conjugates

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Polysaccharides

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

Stability of Superdex 75 prep grade and Superdex 200 prep grade under different chromatographic conditions 547(1991)21

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Polyxiloxane

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Polystyrene

Effect of polystyrene coating on pore, structural and chromatographic properties of silica packings 506(1990)391

Hydrodynamic chromatography of macromolecules on small spherical non-porous silica particles 506(1990)547

Determination of polymer polydispersity by gel permeation chromatography 509(1990)219

Particle characterization in centrifugal fields. Comparison between ultracentrifugation and sedimentation field-flow fractionation 517(1990)361

Characterization of polymers by thermal field-flow fractionation 517(1990)405

Probability method for pyrolysis gas chromatographic data treatment and elaboration of a computer system for the identification of polymers 520(1990)121

Problems in the size-exclusion chromatography of cellulose nitrates: non-exclusion effects and universal calibration 522(1990)67

Reversed-phase gradient elution behaviour of polystyrenes in a dichloromethane-methanol solvent system 543(1991)157

Quantitative particle-size distributions by sedimentation field-flow fractionation with densimeter detector 550(1991)799

Poly(styrene-co-butyl acrylate)

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Poly(styrene-co-divinylbenzene)

Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1

Poly(styrene-co-methyl acrylate)

Analysis of poly(styrene-co-methyl acrylate) and poly(styrene-co-butyl acrylate) by high-performance liquid chromatography 508(1990)319

Poly(styrene-dimethylsiloxane)

Poly(styrene-dimethylsiloxane) block copolymer as a stationary phase for capillary gas chromatography 511(1990)390

Polystyrene latex

Effects of ionic strength of eluent on size analysis of sub-micrometre particles by sedimentation field-flow fractionation 515(1990)27

Polystyrene-poly(ethylene oxide)

Study of polystyrene-poly(ethylene oxide) block copolymer micelles in aqueous solution by size-exclusion chromatography 547(1991)434

Polystyrene-vinyl acetate

Separation of poly(styrene-vinyl acetate) block copolymers by liquid adsorption chromatography 503(1990)411

Poly(2-sulphoethylaspartamide)-silica

Separation of fragments from human serum albumin and its charged variants by reversed-phase and cation-exchange high-performance liquid chromatography 512(1990)165

Poly Tame

Liquid chromatographic analysis of a potential polymeric-pendant drug delivery system for peptides. Application of high-performance size-exclusion chromatography, reversed-phase high-performance liquid chromatography and ion chromatography to the evaluation of biodegradable poly[(chloromethoxytrialanine methyl ester)phosphazenes] 536(1991)255

Polyunsaturated fatty acids

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain *n*-3 polyunsaturated fatty acid methyl esters 533(1990)1

Polyuronides

Increasing the purity of polyuronic sorbents
509(1990)239

Poly(vinyl alcohol)

Chromatographic characteristics of nucleic acid
components on vinyl alcohol copolymer gel
columns 506(1990)145

Novel media for chromatography and
immobilization using a radiation grafting
technique 510(1990)115

Application of high-performance liquid
chromatography in establishing an accurate index
of blood glucose control 515(1990)531

Poly(vinyl chloride)

Determination of phenol in poly(vinyl chloride)
507(1990)417

Gas chromatographic study of interaction
between vinyl chloride and poly(vinyl chloride)
550(1991)171

Polyvinylpyrrolidone

Characterization of humified compounds by
extraction and fractionation on solid
polyvinylpyrrolidone 509(1990)141

Poly(vinylsulphonic acid), sodium salt

Use of the sodium salt of poly(vinylsulphonic acid)
as a low-molecular-weight displacer for protein
separations by ion-exchange displacement
chromatography 519(1990)87

Porous graphitic carbon

Separation of anionic and cationic compounds of
biomedical interest by high-performance liquid
chromatography on porous graphitic carbon
515(1990)183

Porphobilinogen

Micro assay for urinary δ -aminolevulinic acid and
porphobilinogen by high-performance liquid
chromatography with pre-column derivatization
527(1990)134

Porphyrins

High-performance thin-layer chromatography of
rare earth tetraphenylporphine complexes
504(1990)179

Separation of porphyrins on cyclodextrin-bonded
phases with a novel mobile phase 508(1990)375

Capillary electrophoresis of urinary porphyrins
with absorbance and fluorescence detection
516(1990)271

Determination of hydroxy and peroxy acid
derivatives of uroporphyrin in the plasma of
patients with congenital erythropoietic porphyria
by high-performance liquid chromatography
550(1991)603

Potassium

Optimization of the procedure for the
determination of alkali and alkaline-earth
elements in sea water by suppressed ion
chromatography 546(1991)259

Potassium iodide

Reversed-phase high-performance liquid
chromatographic separation of tertiary and
quaternary alkaloids from *Chelidonium majus* L.
543(1991)123

Potassium isotopes

Fractionation of potassium isotopes in cation-
exchange chromatography 538(1991)355

Potassium persulphate

Optimized high-performance liquid
chromatographic procedure for the separation
and quantification of the main folacins and some
derivatives. I. Chromatographic system
540(1991)207

Praseodymium

Peak interactions under concave isotherm
conditions in preparative ion chromatography
546(1991)27

Preservatives

Determination of preservatives in cosmetic
products by reversed-phase high-performance
liquid chromatography. IV 508(1990)252

Prevan

Reversed-phase high-performance liquid
chromatography applied to the direct analysis of
untreated heterophasic systems 507(1990)403

Prilocaine

Liquid chromatographic determination of
felypressin using a column-switching technique
and post-column derivatization 521(1990)141

Determination of prilocaine in human plasma
samples using high-performance liquid
chromatography with dual-electrode
electrochemical detection 526(1990)215

Capillary gas chromatographic method for the
simultaneous determination of local anaesthetics
in plasma samples 533(1990)229

Primidone

Metabolic studies with phenobarbitone, primidone and their N-alkyl derivatives: quantification of substrates and metabolites using chemical ionization gas chromatography-mass spectrometry 526(1990)59

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Proanthocyanidin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Procaine

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Prochlorperazine

Controlling the retention of clopenthixol and other basic drug substances by reversed-phase ion-pair chromatography on bonded-phase materials using two counter-ions of opposite charge 523(1990)217

Procion Red H3B

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Procion Red HE3b

Investigation of affinity partition chromatography using formate dehydrogenase as a model 523(1990)103

Proctolin

Capillary zone electrophoresis-mass spectrometry using a coaxial continuous-flow fast atom bombardment interface 516(1990)167

Procyanidin

Micro method for the identification of proanthocyanidin using thiolysis monitored by high-performance liquid chromatography 540(1991)401

Proenkephalin A

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Progabide

Simultaneous determination of progabide and its acid metabolite by reversed-phase high-performance liquid chromatography 527(1990)214

Proguanil

Assay method for the simultaneous determination of proguanil, chloroquine and their major metabolites in biological fluids 527(1990)490

Proinsulin

Non-ideal behaviour of silica-based stationary phases in trifluoroacetic acid-acetonitrile-based reversed-phase high-performance liquid chromatographic separations of insulins and proinsulins 536(1991)43

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Use of polymeric reversed-phase columns for the characterization of polypeptides extracted from human pancreata. I. Effect of the mobile phase 542(1991)65

Silica *versus* polymer-based stationary phases for reversed-phase high-performance liquid chromatographic analyses of rat insulin biosynthesis. A comparison of resolution and recovery 548(1991)195

Separation and quantitation of serum proinsulin and proinsulin intermediates in humans 548(1991)371

Prolactin

High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57

Purification to homogeneity of bovine prolactin by high-performance ion-exchange chromatography 547(1991)457

Prolidase

High-performance liquid chromatographic procedure for the determination of serum prolidase activity 530(1990)116

Proline

Elimination of peak splitting in the liquid chromatography of the proline-containing drug enalapril maleate 537(1991)249

L-Proline

Enantiomeric resolution of amino acid derivatives by high-performance liquid chromatography on chiral stationary phases derived from L-proline 547(1991)31

Proline iminopeptidase

Determination of proline iminopeptidase activity in bovine dental germs by high-performance liquid chromatography 527(1990)158

Prolyl peptides

High-performance liquid chromatographic method for the determination of prolyl peptides in urine 536(1991)337

Promethazine

Simple procedure involving derivatisation and thin-layer chromatography for the estimation of trace levels of halogenated alkylamines and their hydrolysis products in drug substances and formulations 543(1991)211

Enantiomeric separation of amines using N-benzoxycarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Proopiomelanocortin

Proenkephalin A and proopiomelanocortin peptides in human cerebrospinal fluid 530(1990)235

Propafenone

Liquid chromatographic analysis of propafenone enantiomers in human plasma 527(1990)79

n-Propanal

Chromatograms of second-order reactions on chromatographic columns 520(1990)109

Propane

Comparison of supercritical carbon dioxide and supercritical propane as mobile phases in supercritical fluid chromatography 505(1990)119

Propanethiol

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Propanol

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Propargyllone

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Propham

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Propionic acid

Positive-ion thermospray liquid chromatography-mass spectrometry: detection of organic acidurias 534(1990)1

Direct determination of acetic acid in strongly acidic hydrolysates of chitin and chitin-containing biological products by capillary gas chromatography 538(1991)431

Propionyl-L-carnitine

Chromatographic and non-chromatographic assay of L-carnitine family components (Review) 527(1990)247

Propionyl-coenzyme A carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Propofol

Electrochemical determination of 2,6-diisopropylphenol after high-performance liquid chromatography of extracts from serum 526(1990)293

Simple and practical high-performance liquid chromatographic assay of propofol in human blood by phenyl column chromatography with electrochemical detection 528(1990)537

Propranolol

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct

injection, micellar cleanup and photodiode array detection 507(1990)267

Separation of the enantiomers of β -receptor blocking agents and other cationic drugs using a CHIRAL-AGP[®] column. Binding properties and characterization of immobilized α_1 -acid glycoprotein 519(1990)285

Chiral stationary phase for the facile resolution of β -adrenoceptor blocking agents 521(1990)122

Sensitive high-performance liquid chromatographic determination of propranolol in human plasma with ultraviolet detection using column switching combined with ion-pair chromatography 527(1990)196

Simultaneous determination of propranolol and 4-hydroxypropranolol enantiomers after chiral derivatization using reversed-phase high-performance liquid chromatography 527(1990)351

Enantiomeric separation of amines using N-benzoylcarbonylglycyl-L-proline as chiral additive and porous graphitic carbon as solid phase 543(1991)287

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Propylene oxide

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. I. Functionality type and composition distribution in polyethylene oxide and polypropylene oxide copolymers 523(1990)91

2-(N-Propyl-N-2-thienylethylamino)-5-hydroxytetralin

Reversed-phase liquid chromatographic method with amperometric detection for the

determination of the dopamine agonist 2-(N-propyl-N-2-thienylethylamino)-5-hydroxytetralin (N-0437) in human plasma and urine 528(1990)464

Propylthiouracil

High-performance liquid chromatographic determination of propylthiouracil in plasma 507(1990)247

Prosomes

Large-scale purification of prosomes from calf's liver 521(1990)221

Prostaglandin 15-hydroxydehydrogenase

Purification of human placental prostaglandin 15-hydroxydehydrogenase 521(1990)231

Prostaglandin E₂

Separation and determination of prostaglandin E₁ metabolites by high-performance liquid chromatography 533(1990)159

Luminarin 4 as a labelling reagent for carboxylic acids in liquid chromatography with peroxyoxalate chemiluminescence detection 542(1991)295

Prostaglandins

Analytical and preparative resolution of enantiomers of prostaglandin precursors and prostaglandins by liquid chromatography on derivatized cellulose chiral stationary phases 511(1990)97

Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

Simultaneous reversed-phase extraction of lipoxygenase and cyclooxygenase metabolites of arachidonic acid in nasal secretions: methodological aspects 532(1990)217

High-performance liquid chromatographic detection of myocardial prostaglandins and thromboxanes 536(1991)309

Protamines

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Proteases

Feather keratin as a ligand in an affinity chromatographic technique for isolation of protease from *Trichophyton verrucosum* 520(1990)223

Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211

Protein A

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Immobilization of Protein A at high density on azlactone-functional polymeric beads and their use in affinity chromatography 512(1990)345

Comparative study of reaction kinetics in membrane and agarose bead affinity systems 519(1990)53

Proteinase inhibitor

Immobilization of reactive dyes on several matrices that allow high and very high flow-rates to be used. Application to the purification of a proteinase inhibitor from corn 510(1990)165

Protein-bound compounds

Direct injection of highly protein-bound compounds by column-switching high-performance liquid chromatography 527(1990)127

Protein phosphatase

Chromatographic separation of four Ser/Thr-protein phosphatases from solubilized ciliary membranes of *Paramecium tetraurelia* by heparin-Sepharose 521(1990)179

Proteins

Determination of biopolymer (protein) molecular weights by gradient elution, reversed-phase high-performance liquid chromatography with low-angle laser light scattering detection 502(1990)21

Purification of histone H1 polypeptides by high-performance cation-exchange chromatography 502(1990)47

Reversed-phase high-performance liquid chromatography of proteins and peptides on a pellicular support based on hydrophilic resin 502(1990)416

Preparative affinity chromatography of proteins. Influence of the physical properties of the base matrix 503(1990)93

Large-scale purification of factor VIII by affinity chromatography: optimization of process parameters 503(1990)103

Aluminum ion mediated stabilization of silica-based anion-exchange packings to caustic regenerants 503(1990)385

Variance contributions to band spread in capillary zone electrophoresis 504(1990)1

Study of the dynamic binding capacity of two anion exchangers using bovine serum albumin as a model protein 504(1990)89

High-performance liquid chromatographic separation of biomolecules using calcium phosphate supported on macroporous silica microparticles 504(1990)319

Adsorption behaviour of albumin and conalbumin on TSK-DEAE 5PW anion exchanger 504(1990)335

Separation by cation-exchange high-performance liquid chromatography of three forms of Chinese hamster ovary cell-derived recombinant human interleukin-2 504(1990)351

Two-component protein adsorption to the cation exchanger S Sepharose® FF 505(1990)329

High-performance liquid chromatography of amino acids, peptides and proteins. XCVII. The influence of the gradient elution mode and displacer salt type on the retention properties of closely related protein variants separated by high-performance anion-exchange chromatography 506(1990)17

Aligned fiber columns for size-exclusion chromatography. 506(1990)303

Lipid-vesicle-surface chromatography 506(1990)379

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Study of the retention mechanism of proteins in hydrophobic interaction chromatography 507(1990)1

- High-performance liquid chromatography of amino acids, peptides and proteins. CI. Identification and characterisation of coulombic interactive regions on sperm whale myoglobin by high-performance anion-exchange chromatography and computer-graphic analysis 507(1990)33
- Modification of the selectivity of a reversed-phase high-performance liquid chromatographic system by binding sodium dodecyl sulphate to peptides 507(1990)45
- Fully automated amino acid analysis for protein and peptide hydrolysates by precolumn derivatization with 9-fluorenyl methylchloroformate and 1-aminoadamantane 507(1990)67
- One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97
- Design and applications of biomimetic anthraquinone dyes. III. Anthraquinone-immobilised C.I. Reactive Blue 2 analogues and their interaction with horse liver alcohol dehydrogenase and other adenine nucleotide-binding proteins 508(1990)109
- Modification of silica with glucose for the separation of proteins by high-performance liquid chromatography 508(1990)289
- Gel permeation chromatography for the determination of the molecular mass distribution of some industrial proteins 509(1990)227
- Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3
- Salt-promoted adsorption chromatography 510(1990)47
- Affinity-repulsion chromatography 510(1990)49
- Application of receptor-affinity chromatography to bioaffinity purification 510(1990)59
- Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71
- Tresyl-activated support for high-performance affinity chromatography 510(1990)101
- New ion exchangers for the chromatography of biopolymers 510(1990)133
- Purification of gonadotropin releasing hormone receptors using the avidin-biotin technique 510(1990)233
- Purification of the upstream element factor of the Adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243
- Progress in affino-phoresis (Review) 510(1990)251
- Effect of polyethylene glycol on the non-specific adsorption of proteins to Eupergit C and agarose 510(1990)271
- Chemistry and preparation of affinity ligands useful in immunoglobulin isolation and serum protein separation 510(1990)281
- Site-directed immobilization of proteins 510(1990)293
- Purification of soluble cytokine receptors from normal human urine by ligand-affinity and immunoaffinity chromatography 510(1990)331
- Glucose-silica, an improved medium for high-pressure gel filtration chromatography 511(1990)69
- Ion chromatographic determination of plasma oxalate in healthy subjects, in patients with chronic renal failure and in cases of hyperoxaluric syndromes 511(1990)223
- Electric properties of photoaffinity-labelled pancreatic A-subtype cholecystokinin receptor 511(1990)333
- Hadamard transform photothermal deflection densitometry of electrophoretically blotted proteins 511(1990)341
- Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3
- Systematic optimization of protein separations on high-performance ion-exchange chromatographic media 512(1990)13
- High-performance liquid chromatography of amino acids, peptides and proteins. XCVIII. The

- influence of different displacer salts on the bandwidth properties of proteins separated by gradient elution anion-exchange chromatography 512(1990)41
- High-performance liquid chromatography of amino acids, peptides and proteins. XCIX. Comparative study of the equilibrium refolding of bovine, porcine and human growth hormone by size-exclusion chromatography 512(1990)57
- Predicting the performance of gel-filtration chromatography of proteins 512(1990)77
- Preparative chromatography of proteins. Design calculation procedure for gradient and stepwise elution 512(1990)89
- High-performance liquid chromatography of amino acids, peptides and proteins. CIII. Mass transfer resistances in ion-exchange and dye-affinity chromatography of proteins 512(1990)101
- Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157
- Immobilized metal ion affinity chromatography for the purification of *Fel d I*, a cat major allergen, from a house-dust extract 512(1990)177
- Characterization of apolipoproteins from chicken plasma 512(1990)203
- Rapid high-performance liquid chromatographic protein quantitation of purified recombinant Factor VIII containing interfering substances 512(1990)213
- Purification of membrane protein complexes isolated from a cyanobacterial thylakoid membrane by high-performance liquid chromatography 512(1990)219
- Simultaneous determination of *Bordetella pertussis* toxin and filamentous haemagglutinin concentrations by hydroxyapatite high-performance liquid chromatography 512(1990)227
- High-performance metal chelate interaction chromatography of proteins with silica-bound ethylenediamine-N,N'-diacetic acid 512(1990)237
- Peptide mapping of HIV polypeptides expressed in *Escherichia coli*. Quality control of different batches and identification of tryptic fragments containing residues of aromatic amino acids or cysteine 512(1990)325
- Preparative high-performance liquid chromatography on a unique high-speed macroporous resin 512(1990)365
- Correlation of protein partitioning in aqueous polymer two-phase systems 513(1990)137
- Effect of type and concentration of coupling buffer on coupling yield in the coupling of proteins to a tresyl-activated support for affinity chromatography 513(1990)367
- Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11
- Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137
- Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37
- Fundamental study of hydroxyapatite high-performance liquid chromatography. II. Experimental analysis on the basis of the general theory of gradient chromatography 515(1990)91
- Fundamental study of hydroxyapatite high-performance liquid chromatography. III. Direct experimental confirmation of the existence of two types of adsorbing surface on the hydroxyapatite crystal 515(1990)125
- Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175
- Separation and determination of aspicillin in human plasma by micellar electrokinetic chromatography with direct sample injection 515(1990)245
- Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279
- Automated high-resolution two-dimensional liquid chromatographic system for the rapid and sensitive separation of complex peptide mixtures 515(1990)313

Purification of D₂ dopamine receptor by photoaffinity labelling, high-performance liquid chromatography and preparative sodium dodecyl sulphate polyacrylamide gel electrophoresis 515(1990)375

Analysis of proteins by high-performance liquid chromatography with circular dichroism spectrophotometric detection 515(1990)407

High-performance liquid chromatography of proteins on a ceramic hydroxyapatite with volatile buffers 515(1990)521

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Recent developments in electrophoretic methods (Review) 516(1990)3

Polyethyleneimine-bonded phases in the separation of proteins by capillary electrophoresis 516(1990)69

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Capillary electrophoresis of proteins under alkaline conditions 516(1990)123

Capillary zone electrophoresis for monitoring r-DNA protein purification in multi-compartment electrolyzers with immobiline membranes 516(1990)133

Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry 516(1990)157

Applicability of dynamic change of pH in the capillary zone electrophoresis of proteins 516(1990)219

Surfactant-mediated hydrophobic interaction chromatography of proteins: gradient elution 518(1990)99

Water-soluble proteins do not bind octyl glucoside as judged by molecular sieve chromatographic techniques 518(1990)111

Fractionation of basic nuclear proteins of human sperm by zinc chelate affinity chromatography 518(1990)123

High-performance liquid chromatographic determination of proteins by post-column fluorescence derivatization with thiamine reagent 518(1990)141

Flow-through particles for the high-performance liquid chromatographic separation of biomolecules: perfusion chromatography 519(1990)1

Preparation and rapid resolution of *Xenopus* phosphatases and phosphatases by high-performance liquid chromatography 519(1990)75

Use of the sodium salt of poly(vinylsulfonic acid) as a low-molecular-weight displacer for protein separations by ion-exchange displacement chromatography 519(1990)87

Strategies for internal amino acid sequence analysis of proteins separated by polyacrylamide gel electrophoresis 519(1990)199

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

Application of high-performance liquid chromatography to the purification of the putative intestinal peptide transporter 521(1990)199

Isolation of an outer membrane protein complex from *Borrelia burgdorferi* by *n*-butanol extraction and high-performance ion-exchange chromatography 521(1990)325

Adsorption of proteins on porous and non-porous poly(ethyleneimine) and tentacle-type anion exchangers 522(1990)77

Effect of feed flow-rate, antigen concentration and antibody density on immunoaffinity purification of coagulation factor IX 522(1990)153

Hydrophobic interaction chromatography of proteins on Separon HEMA. II. Influence of sorbent modification on efficiency of separation 523(1990)131

Hydrophobic interaction chromatography of proteins on Separon HEMA. III. Selection of

suitable gradient conditions for the separation of proteins by hydrophobic interaction chromatography 523(1990)139

Isolation of human lactoferrin by affinity chromatography using insolubilized bovine β -lactoglobulin 525(1990)442

Determination of collagen and protein turnover by high-performance liquid chromatography 526(1990)383

Affinity chromatographic isolation of a major polyamine binding protein from serum and placenta, identified as serum albumin 527(1990)146

Separation of phosphoproteins by fast protein liquid chromatography 527(1990)152

Esophageal carcinoma-associated proteins detected by two-dimensional polyacrylamide gel electrophoresis 527(1990)315

Detection of the exercise-associated changes in serum proteins by two-dimensional electrophoresis under non-denaturing conditions 528(1990)315

Efficient large-scale purification of non-histone chromosomal proteins HMG1 and HMG2 by using Polybuffer-exchanger PBE94 530(1990)39

Separation procedures used to reveal and follow drug-protein binding 531(1990)51

Analysis of cellular fatty acids and proteins by capillary gas chromatography and sodium dodecyl sulphate polyacrylamide gel electrophoresis to differentiate *Mycobacterium avium*, *Mycobacterium intracellulare* and *Mycobacterium scrofulaceum* (MAIS) complex species 532(1990)209

Separation of serum proteins by high-performance gel-permeation column systems 533(1990)47

Two-dimensional polyacrylamide gel electrophoretic pattern of duodenal tumour proteins 534(1990)47

New family of high-resolution ion exchangers for protein and nucleic acid purifications from laboratory to process scales 535(1990)127

Monosized stationary phases for chromatography 535(1990)147

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

Effect of metal ions on the unfolding kinetics of α -lactalbumin on weakly hydrophobic surfaces 536(1991)17

Purification of proteins on an epoxy-activated support by high-performance affinity chromatography 536(1991)95

Analysis of protein denaturation by high-performance continuous differential viscometry 536(1991)113

High-performance liquid chromatography of amino acids, peptides and proteins. CVII. Analysis of group retention contributions for peptides separated with a range of mobile and stationary phases by reversed-phase high-performance liquid chromatography 536(1991)165

Determination of 3-methylhistidine in hydrolysed proteins by fluorecamine derivatization and high-performance liquid chromatography 536(1991)283

Method for the characterization of stationary phases for the separation of proteins by high-performance liquid chromatography 537(1991)1

Chemical, physical and chromatographic properties of Superdex 75 prep grade and Superdex 200 prep grade gel filtration media 537(1991)17

Alternative mobile phases for the reversed-phase high-performance liquid chromatography of peptides and proteins 537(1991)181

Reversed-phase high-performance liquid chromatographic characterization of acetic acid extracts of the normal and the diabetic human pancreas 537(1991)201

Protein-ligand interactions studied on bovine serum albumin with free and polymer-bound Cibacron Blue F3G-A as ligand with reference to affinity partitioning 537(1991)219

Large-scale isolation and purification of human apolipoproteins A-I and A-II 537(1991)464

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins

using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Comparative affinity chromatographic studies using novel grafted polyamide and poly(vinyl alcohol) media 539(1991)307

Microfiltration membranes as pseudo-affinity adsorbents: modification and comparison with gel beads 539(1991)315

Recognition of phosphate groups by immobilized aluminium(III) ions 539(1991)327

Purification of *E. coli* 30S ribosomal proteins by high-performance liquid chromatography under non-denaturing conditions 539(1991)343

Isolation and characterization of two different molecular forms of basic fibroblast growth factor extracted from human placental tissue 539(1991)393

Affinity chromatography of fibroblast growth factors on coated silica supports grafted with heparin 539(1991)417

Selective extraction of native β -lactoglobulin from whey 539(1991)455

Purification and characterization of recombinant tropomyosins 539(1991)465

Isolation and purification of cat albumin from cat serum by copper ion affinity chromatography: further analysis of its primary structure 539(1991)475

Purification of a hybrid plasminogen activator protein 539(1991)485

Purification of heparin cofactor II from human plasma 539(1991)493

Purification of cloned trypanosomal calmodulin and preliminary NMR studies 539(1991)501

Monitoring of protein conformation by high-performance size-exclusion liquid chromatography and scanning diode array second-derivative UV absorption spectroscopy 540(1991)187

Application of reversed-phase high-performance liquid chromatography to the separation of apolipoproteins A-IV, A-I and E from rat high-density lipoprotein 540(1991)386

Sample displacement mode chromatography: purification of proteins by use of a high-performance anion-exchange column 541(1991)207

Comparison of polybutadiene-coated alumina and octadecyl-bonded silica for separations of proteins and peptides by reversed-phase high-performance liquid chromatography 541(1991)303

Analysis of the soluble proteins in grape must by two-dimensional electrophoresis 541(1991)453

Equilibria of biomolecules on ion-exchange adsorbents 542(1991)19

Comparison of site-specific coupling chemistry for antibody immobilization on different solid supports 542(1991)41

Properties of supports for the partition chromatography of proteins 542(1991)55

Determination of size limits of membrane separation in vesicle chromatography by fractionation of polydisperse dextran 542(1991)239

Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327

Chiral copper-chelate complexes alter selectivities in metal affinity protein partitioning 543(1991)345

Silica-based supports for high-performance liquid chromatography of biopolymers using non-denaturing conditions (Review) 544(1991)125

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Evaluation of vinylpyridine and vinylpyridinium polymers as column packings for high-performance liquid chromatography (Review) 544(1991)219

Macroporous synthetic hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1991)249

- Non-porous hydrophilic resin-based packings for the separation of biopolymers (Review) 544(1989)257
- Perfusion chromatography packing materials for proteins and peptides 544(1991)267
- Recycling and screen-segmented column isotachopheresis, two free-fluid approaches for fractionation of proteins 545(1991)315
- Two-dimensional electrophoresis: agarose gel isotachopheresis followed by sodium dodecyl sulphate-polyacrylamide electrophoresis 545(1991)343
- Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391
- Azide determination in protein samples by ion chromatography 546(1991)325
- Subfractions of membranes from calf brain synaptosomes obtained and studied by liquid-liquid partitioning 547(1991)79
- Characterization of recombinant eel growth hormone 547(1991)131
- Very high speed separation of proteins with a 20- μm reversed-phase sorbent 547(1991)452
- Purification to homogeneity of bovine prolactin by high-performance ion-exchange chromatography 547(1991)457
- Improved capillary zone electrophoretic separation of basic proteins, using a fluorosurfactant buffer additive 547(1991)544
- Capillary electrophoretic separation in both H_2O - and $^2\text{H}_2\text{O}$ -based electrolytes can provide more information on tryptic digests 547(1991)551
- Investigations of liquid-liquid partition chromatography of proteins 548(1991)3
- Application of the split-peak effect to study the adsorption kinetics of human serum albumin on a reversed-phase support 548(1991)81
- Solution properties of polyelectrolytes. VII. Non-ideal mechanisms in size-exclusion chromatography of synthetic polyions, peptides and proteins 548(1991)93
- High-performance liquid chromatography of amino acids, peptides and proteins. CXI. Retention behaviour of proteins with macroporous tentacle-type anion exchangers 548(1991)117
- High-performance liquid chromatography of amino acids, peptides and proteins. CXII. Analysis of operating parameters affecting the breakthrough curves in fixed-bed chromatography of proteins using several mathematical models 548(1991)127
- High-performance liquid chromatography of amino acids, peptides and proteins. CXIII. Predicting the performance of non-porous particles in affinity chromatography of proteins 548(1991)147
- Characterization of synthetic macroporous ion-exchange resins in low-pressure cartridges and columns. Evaluation of the performance of Macro-Prep 50 S resin in the purification of anti-Klenow antibodies from goat serum 548(1991)165
- Comparison of silica-based cyanopropyl and octyl reversed-phase packings for the separation of peptides and proteins 548(1991)179
- High-performance liquid chromatography and ultrafiltration of whey proteins with inorganic porous materials coated with polyvinylimidazole derivatives 548(1991)215
- Effect of antigen size on optimal ligand density of immobilized antibodies for a high-performance liquid chromatographic support 548(1991)243
- Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293
- Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361
- Structure-stability relationship of Immobiline chemicals for isoelectric focusing as monitored by capillary zone electrophoresis 548(1991)381
- Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393
- Fluoride-modified zirconium oxide as a biocompatible stationary phase for high-performance liquid chromatography 549(1991)59

Metal affinity displacement chromatography of proteins 549(1991)89

Ovine luteinizing hormone. V. Significance of flow-through peaks observed during chromatofocusing as revealed by various methods of sample preparation and application 549(1991)141

Capillary zone electrophoresis with a linear, non-cross-linked polyacrylamide gel: separation of proteins according to molecular mass 549(1991)446

High-performance liquid chromatography of amino acids, peptides and proteins. CIX. Investigations on the relation between the ligand density of Cibacron Blue immobilized porous and non-porous sorbents and protein-binding capacities and association constants 550(1990)383

Chromatographic separation and examination of carbohydrate and phenolic components of the non-tannin fraction of black wattle (*Acacia mearnsii*) bark extract 550(1991)519

Protein separation with aqueous-aqueous polymer systems by two types of counter-current chromatographs 550(1991)695

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Cascade-mode multi-affinity chromatography. Fractionation of human serum proteins 550(1991)751

High-performance capillary electrophoresis of proteins. Sodium dodecyl sulphate-polyacrylamide gel-filled capillary column for the determination of recombinant biotechnology-derived proteins 550(1991)823

Proteins, bifunctional

Purification of a amylase-pullulanase bifunctional enzyme by high-performance size-exclusion and hydrophobic-interaction chromatography 512(1990)131

Proteins, globular

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Proteins, hydrophobic

High-performance capillary electrophoresis of hydrophobic membrane proteins 516(1990)89

Proteins, ribosomal

Reversed-phase chromatography of *Escherichia coli* ribosomal proteins. Correlation of retention time with chain length and hydrophobicity 522(1990)163

Purification of *E. coli* 30S ribosomal proteins by high-performance liquid chromatography under non-denaturing conditions 539(1991)343

Proteoglycans

Isolation and characterization of proteoglycans from different tissues 521(1990)311

Protopine

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Protriptyline

Studies on system peaks in ion-pair adsorption chromatography. III. Regulation of system peak gradient retention for obtaining analyte peak compression 506(1990)61

Separation of seven tricyclic antidepressants using capillary electrophoresis 549(1991)375

Proxopur

Development of an automated high-performance liquid chromatographic method for the on-line pre-concentration and determination of trace concentrations of pesticides in drinking water 503(1990)167

Pseudocumene

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Pseudouridine

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

Isolation and identification of urinary nucleosides. Applications of high-performance liquid chromatographic methods to the synthesis of 5'-deoxyxanthosine and the simultaneous determination of 5,6-dihydrouridine and pseudouridine 515(1990)537

Isolation of an additional inhibitor of glucose utilization in renal insufficiency: pseudouridine 528(1990)178

Psilocin

Determination of psilocin in rat urine by high-performance liquid chromatography with electrochemical detection 534(1990)287

Ptaquiloside

Determination of ptaquiloside in bracken fern (*Pteridium esculentum*) 538(1991)462

Pterocarpan

Enantiomeric separation of racemic pterocarpan by high-performance liquid chromatography on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 508(1990)212

Pteroylglutamates

Optimized high-performance liquid chromatographic procedure for the separation and determination of the main folacins and some derivatives. II. Extraction method and application to rat liver 545(1991)91

Pullulan

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Purine nucleosides

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Purines

see also Nucleobases

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

Ion-pair high-performance liquid chromatography of purine compounds in the small intestinal mucosa of children with coeliac disease 520(1990)419

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Determination of purine compounds by ion-pair microbore high-performance liquid chromatography: application to ischemic rat kidney mitochondria 527(1990)498

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Putrescine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Pyrans

2,6-Di-O-pentyl-3-O-trifluoroacetyl cyclodextrin liquid stationary phases for capillary gas chromatographic separation of enantiomers 509(1990)303

Pyrazinamide

Determination of 2-methylpyrazine and pyrazinamide in reaction mixtures by gas and high-performance liquid chromatography 513(1990)83

Rapid liquid chromatographic method for the estimation of isoniazid and pyrazinamide in plasma and urine 532(1990)418

Pyrazines

Hydrophobicity parameters determined by reversed-phase liquid chromatography. I. Relationship between capacity factors and octanol-water partition coefficients for monosubstituted pyrazines and the related pyridines 514(1990)123

Pyrene

Three-dimensional network plots using colours for a fourth variable with binary mixtures of pentane and 1,4-dioxane under sub- and supercritical conditions 505(1990)109

Solid-surface room-temperature phosphorescence detection for high-performance liquid chromatography 508(1990)37

Pyrethroids

Enantiomer separation of pyrethroid insecticides by high-performance liquid chromatography with chiral stationary phases 515(1990)441

Rapid method for esterification of trace levels of carboxylic acids for analysis by gas chromatography-electron-capture detection 516(1990)427

Chiral high-performance liquid chromatography of synthetic pyrethroid insecticides 539(1991)207

Use of low-purity solvents and reagents for analysis of residues of synthetic pyrethroid pesticides by gas chromatography with electron-capture detection 540(1991)464

Pyridines

Characterization of an adamantyl-modified silica used as a stationary phase in high-performance liquid chromatography 514(1990)11

2-Pyridinethiol 1-oxide

High-performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation 502(1990)379

Pyridinium dichromate

Determination of prostaglandins in human seminal fluid by solid-phase extraction, pyridinium dichromate derivatization and high-performance liquid chromatography 529(1990)21

Pyridinium oximes

High-performance liquid chromatographic analysis of imidazolium and pyridinium oximes in plasma and urine 527(1990)371

Pyridinoline

Rapid assay for hard tissue collagen cross-links using isocratic ion-pair reversed-phase liquid chromatography 525(1990)43

Pyridopyrimidines

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Pyridostigmine

Determination of pyridostigmine plasma concentrations by high-performance liquid chromatography 534(1990)291

Pyridoxal-5'-phosphate

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

Pyridoxal 5'-phosphate, carbamoyl derivative

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Pyridoxamine 5'-phosphate, carbamoyl derivative

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Pyridoxine

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

Pyridoxine kinase

Simple isocratic high-performance liquid chromatographic method for measuring pyridoxine kinase activity in crude biological extracts 526(1990)25

3-Pyridylcarbinol

Nicotine metabolites in the urine of smokers 525(1990)193

Pyrilamine

High-performance liquid chromatography of the antihistamine pyrilamine and its N-oxide using electrochemical detection 534(1990)151

Pyrilamine-N-oxide

High-performance liquid chromatography of the antihistamine pyrilamine and its N-oxide using electrochemical detection 534(1990)151

Pyrimidine carboxamide

Determination of the monoamine oxidase B inhibitor Ro 19-6327 in plasma by high-performance liquid chromatography using precolumn derivatization with fluorecamine and fluorescence detection 507(1990)187

Pyrimidines

Chromatographic characteristics of nucleic acid components on vinyl alcohol copolymer gel columns 506(1990)145

Separation and interconversion of 3-amino-2-cyanoacrylates by high-performance liquid chromatography 507(1990)409

Applications of high-performance liquid chromatography in bacteriology. I. Determination of metabolites (Review) 515(1990)415

Relationship between retention parameters in reversed-phase high-performance liquid chromatography and antitumour activity of some pyrimidine bases and nucleosides 547(1991)161

Pyronaridine

Analysis of blood and urine samples from *Macaca mulata* for pyronaridine by high-performance liquid chromatography with electrochemical detection 527(1990)115

Pyropheophytins

High-performance liquid chromatography-continuous-flow fast atom bombardment mass spectrometry of chlorophyll derivatives 542(1991)373

Pyrophosphate

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Ion chromatography for the analysis of household consumer products 546(1991)351

Pyrrolidides

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Pyrrolidine

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

2-Pyrrolidinone

Diurnal changes in plasma levels of 2-pyrrolidinone determined by isotope dilution mass spectrometry 550(1991)239

Pyrrolnitrin

High-performance liquid chromatographic analysis of phenylpyrroles produced by *Pseudomonas cepacia* 508(1990)247

Pyruvate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Pyruvate carboxylase

High-performance liquid chromatographic determination of four kinds of biotin-containing carboxylase 529(1990)55

Pyruvate dehydrogenase

Application of high-performance liquid chromatography to the purification, disintegration and molecular mass determination of pyruvate dehydrogenase multi-enzyme complexes from different sources 521(1990)169

Q

Quassinoids

Separation of quassinoids from *Ailanthus altissima* by high-speed counter-current chromatography 538(1991)227

Quaternary ammonium compounds

Determination of fungistatic quaternary ammonium compounds in beverages and water samples by high-performance liquid chromatography 507(1990)421

Quaternary ammonium steroids

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Quercetin

High-performance liquid chromatographic determination of five widespread flavonoid aglycones 508(1990)236

Application of micellar electrokinetic capillary chromatography to the determination of flavonoid drugs 549(1991)367

Quinalphos

High-performance liquid chromatographic separation and determination of quinalphos in technical and commercial formulations 502(1990)208

Small-scale method for the determination of organophosphorus insecticides in tea using sulphuric acid as clean-up reagent 516(1990)446

Quinazoline alkaloids

Determination of vasicine and related alkaloids by gas chromatography–mass spectrometry 505(1990)424

Quinine

High-performance liquid chromatographic determination of quinine in plasma, whole blood and samples dried on filter paper 528(1990)221

Quinolones

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Quinoxaline antibiotics

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

8-Quinoxaline complexes

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

R**Radiamuls 142**

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Raffinose

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Ramipril

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Ramiprilate

Multiple peak formation in reversed-phase liquid chromatography of ramipril and ramiprilate 506(1990)75

Ranitidine

Automated liquid chromatographic determination of ranitidine in microliter samples of rat plasma 535(1990)287

Rapeseed oil

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Rare earths

Separation of rare earth elements by high-speed counter-current chromatography 538(1991)133

Rare earth tetraphenylporphines

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Reduced haloperidol

Simultaneous determination of haloperidol and reduced haloperidol by gas chromatography using a megabore column with electron-capture detection: application to microsomal oxidation of reduced haloperidol 529(1990)182

Reichardt's dye

Solvent selection guide for counter-current chromatography 538(1991)109

Relaxin

Characterization of chemically synthesized human relaxin by high-performance liquid chromatography 508(1990)81

Remoxipride

Separation of anionic and cationic compounds of biomedical interest by high-performance liquid chromatography on porous graphitic carbon 515(1990)183

Determination of remoxipride in plasma and urine by reversed-phase column liquid chromatography 526(1990)139

Resin acids

Determination of resin and fatty acids in pulp and paper mill effluents and white waters by gas-liquid chromatography 509(1990)65

Qualitative analysis of a commercially available phenol-formaldehyde resin, by static and

dynamic headspace analysis using a mass-selective detector 509(1990)101

Determination of resin and fatty acids in sediments near pulp mill locations 547(1991)315

Resoles

Applications of gel filtration chromatography for resole phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Resorcinol

Separation and quantitation of phenolic compounds in mainstream cigarette smoke by capillary gas chromatography with mass spectrometry in the selected-ion mode 505(1990)365

Restriction endonucleases

Affinity partitioning of restriction endonucleases. Application to the purification of EcoR I and EcoR V 538(1991)311

Retinoids

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Chromatography of retinoids 531(1990)481

Retinol

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Retinol palmitate

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Rhaponticin

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Rhodotorulic acid

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Riboflavin

Detection and quantification of capillary electrophoresis zones by fluorescence microscopy 502(1990)247

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Riboflavin-5-phosphate

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Riboflavin-5'-phosphate

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Ribonuclease

Application of low-angle laser light scattering detection in the field of biochemistry. Review of recent progress 506(1990)409

Evaluation of ammonium acetate as a volatile buffer for high-performance hydrophobic-interaction chromatography 515(1990)279

Ribonuclease A

Binding of lysozyme on the surface of entrapped phosphatidylserine-phosphatidylcholine vesicles and an example of high-performance lipid vesicle surface chromatography 512(1990)377

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Ribonuclease B

Sensitive blotting assay for the detection of glycopeptides in peptide maps 510(1990)225

Ribonucleoproteins

Large-scale purification of prosomes from calf's liver 521(1990)221

Ribonucleosides

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Ribosomes

Separation of ribosomal subunits on Trisacryl GF 2000 545(1991)196

Rifampicin

High-performance liquid chromatographic assay of rifampicin in human serum 525(1990)495

Rimantadine

Effect of noise on peak heights calculated using an exponentially modified gaussian peak shape model 539(1991)133

Ritalinic acid

Enantioselective gas chromatographic assay with electron-capture detection for *dl*-ritalinic acid in plasma 530(1990)327

RM 06

High-performance liquid chromatographic determination in human plasma of a new immunomodulatory agent with a peptidyl-hypoxanthine structure (RM 06) 525(1990)471

RNA

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

rRNA

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

tRNA

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads 506(1990)319

High-performance liquid chromatography of transfer ribonucleic acids on spherical hydroxyapatite beads. II. Effects of pH and sodium chloride on chromatography 515(1990)563

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

RNA, high molecular weight

Separation of high-molecular mass RNAs by high-performance liquid chromatography on hydroxyapatite 515(1990)611

Ropivacaine

Capillary gas chromatographic method for the simultaneous determination of local anaesthetics in plasma samples 533(1990)229

Ruelene

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Ruthenium(II) bipyridyl salts

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Ruthenium(II) 1,10-phenantroline salts

Separation and indirect detection of small-chain peptides using chromophoric mobile phase additives 509(1990)357

Rutin

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

 β -D-Rutinosides

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

S

Saccharides

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Studies on texture and properties of porous glass and silica gel used as supports for chemically bonded amino phases for high-performance liquid chromatography 520(1990)237

Determination of saccharides in biological materials by high-performance anion-exchange chromatography with pulsed amperometric detection 546(1991)297

High-performance liquid chromatography of reaction mixtures from the oxidation and degradation of lactose 549(1991)113

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Saikosaponins

Simultaneous determination of ginsenosides and saikosaponins by high-performance liquid chromatography 507(1990)327

Salbutamol

Separation and simultaneous determination of bamipine and salbutamol in dosage forms by high-performance liquid chromatography 502(1990)189

Salicylic acid

Characterization of an internal-surface reversed-phase silica support for liquid chromatography and its application to assays of drugs in serum 515(1990)59

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Salidroside

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Salinomycin

Separation and detection of monensin, lasalocid and salinomycin by thin-layer chromatography/bioautography 508(1990)386

Sandostab P-EPQ

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Sanguinarine

Solid-phase extraction and fluorimetric detection of benzophenanthridine alkaloids from *Sanguinaria canadensis* cell cultures 519(1990)99

Determination of isoquinoline alkaloids in *Chelidonium majus* L. by ion-pair high-performance liquid chromatography 542(1991)193

Santowhite

Étude par chromatographie liquide haute performance des antioxydants phénoliques

présents dans les matériaux plastiques. Comparaison de trois méthodes de détection: spectrophotométrique dans l'ultra-violet, électrochimique, et évaporative à diffusion de la lumière 522(1990)131

Saponins

Utilizing column selectivity in developing a high-performance liquid chromatographic method for ginsenoside assay 504(1990)139

High-performance liquid chromatography of alfalfa root saponins 519(1990)109

Preparative high-performance liquid chromatography on chemically modified porous glass. Isolation of acidic saponins from ginseng 537(1991)469

Sarafloxacin

High-performance liquid chromatographic determination of several quinolone antibacterials in medicated fish feed 514(1990)348

Sarin

Capillary column gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-tandem mass spectrometry 541(1991)121

Saterinone

Direct enantiomeric separation of saterinone by high-performance liquid chromatography 525(1990)161

Determination of saterinone enantiomers in plasma samples with an internal standard using a Chiralcel OD column. Fractionation and reversed-phase chromatography 535(1990)263

Saxitoxin

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Schizophyllan

High-performance gel permeation chromatography of water-soluble β -1,3-glucans 509(1990)213

Size-exclusion chromatography dimension for rod-like macromolecules 515(1990)37

Scopolamine

Electron-impact ionization detection of scopolamine by gas chromatography-mass spectrometry in rat plasma and brain 528(1990)325

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Scopoletin

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

SD-3211

Determination of a new calcium antagonist, sesamol fumarate (SD-3211), and its metabolite in plasma by liquid chromatography with electrochemical detection 527(1990)381

Sedative hypnotics

Identification and differentiation of barbiturates, other sedative-hypnotics and their metabolites in urine integrated in a general screening procedure using computerized gas chromatography-mass spectrometry 530(1990)307

Selegiline

Determination of the amine metabolites of selegiline in biological fluids by capillary gas chromatography 527(1990)163

Selenate

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Selenite

Simultaneous determination of arsenite, arsenate, selenite and selenate in waters using suppressed ion chromatography with ultraviolet absorbance detection 537(1991)269

Selenium

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

Selenium dioxide

Cyclic arylenazachalcogenenes. IV. Gas chromatographic properties of polyfluorinated 2,1,3-benzoselenadiazoles 549(1991)429

Selenoamino acids

Determination of selenium in organic compounds on a silica gel sintered thin-layer chromatographic plate with 2,3-diaminonaphthalene after direct digestion 537(1991)397

Selenocyanate

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Semi volatile organic compounds

Performance of an extraction disk in synthetic organic chemical analysis using gas chromatography-mass spectrometry 538(1991)233

Septamycin

Indirect thin-layer chromatography-fast atom bombardment and chemical ionization mass spectrometry determination of carbohydrates utilizing simple and rapid microtransfer techniques 514(1990)377

Serine

High-performance liquid chromatographic determination of selected amino acids in rat brain by precolumn derivatization with phenylisothiocyanate 503(1990)177

Serine proteases

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Efficient high-performance liquid chromatographic system for the purification of a halobacterial serine protease 521(1990)211

Serotonin

Simultaneous high-performance liquid chromatographic determination of norepinephrine, serotonin, acetylcholine and their metabolites in the cerebrospinal fluid of anaesthetized normotensive rats 526(1990)1

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Two-parameter mobile phase optimization for the simultaneous high-performance liquid chromatographic determination of dopamine, serotonin and related compounds in microdissected rat brain nuclei 547(1991)113

Fingerprinting of molecular components in individual human cerebrospinal fluid samples with a new micropurification system 548(1991)311

Serotonin-2 receptor

Semi-preparative purification of an endogenous ligand for brain serotonin-2 receptors by coil planet centrifuge counter-current chromatography 538(1991)177

Sertraline

Separation and determination of sertraline and its metabolite, desmethylsertraline, in mouse cerebral cortex by reversed-phase high-performance liquid chromatography 527(1990)467

Sesamodil fumarate

Determination of a new calcium antagonist, sesamodil fumarate (SD-3211), and its metabolite in plasma by liquid chromatography with electrochemical detection 527(1990)381

Sesquiterpene lactones

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Dünnschichtchromatographie von Guajanoliden des Unterstammes Centaureinae 505(1990)417

Sesquiterpenes

Gas chromatographic retention indices of monoterpenes and sesquiterpenes on methyl silicone and Carbowax 20M phases (Review) 503(1990)1

Essential oil from *Thymus borgiae*, a new Iberian species of the *Hyphodromi* section 518(1990)230

Sialic acids

Determination of N-acetyl- and N-glycolylneuraminic acids in glycoconjugates by reversed-phase high-performance liquid chromatography with ultraviolet detection 503(1990)421

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Sialooligosaccharides

Analysis of N- and O-glycosidically bound sialooligosaccharides in glycoproteins by high-performance liquid chromatography with pulsed amperometric detection 523(1990)189

Siderophores

Analysis of ^{55}Fe -labeled hydroxamate siderophores by high-performance liquid chromatography 537(1991)259

Silarylene

Behaviours of siloxane polymers containing phenyl or silarylene as stationary phases for high-temperature gas chromatography 514(1990)259

Silica

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

Silicate

Ion chromatography for the analysis of household consumer products 546(1991)351

Siloxane acrylate

Fabrication of columns for open-tubular liquid chromatography using photopolymerization of acrylates 516(1990)301

Silsesquioxanes

Separation of the oligomeric silsesquioxanes $(\text{HSiO}_{3/2})_{8-18}$ by size-exclusion chromatography 507(1990)481

Silver

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Silyl acetals

Chiral organosilicon compounds. II. Comparison of gas-liquid chromatographic and NMR analyses of enantiomeric alcohols 503(1990)437

Simazine

Determination of chlorotriazines and their photolysis products by liquid chromatography with photodiode-array and thermospray mass spectrometric detection 502(1990)275

Sinensetin

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Sirodesmins

Rapid high-performance liquid chromatographic analysis of phytotoxins from *Phoma lingam* 519(1990)383

SK&F 104146

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

SK&F 105494

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

S-mustard

Thermal desorption-gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Sobrerol

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Sodium

Anomalous behaviour of sodium in isotachopheresis 545(1991)471

Optimization of the procedure for the determination of alkali and alkaline-earth elements in sea water by suppressed ion chromatography 546(1991)259

Separation of cations in buffered 1-methyl-3-ethylimidazolium chloride-aluminum chloride ionic liquids by ion chromatography 547(1991)484

Sodium alkyl sulphates

Micellar electrokinetic chromatography employing sodium alkyl sulfates and Brij 35[®] 517(1990)549

Sodium aluminate

High-performance liquid chromatographic determination of humic acid in sodium aluminate solution 502(1990)443

Sodium azide

Azide determination in protein samples by ion chromatography 546(1991)325

Sodium chloride

Column-friendly reversed-phase high-performance liquid chromatography of peptides and proteins using formic acid with sodium chloride and dynamic column coating with crown ethers 539(1991)37

Sodium cholate

Separation and determination of lipophilic corticosteroids and benzothiazepin analogues by micellar electrokinetic chromatography using bile salts 513(1990)279

Sodium 5-difluoromethoxy-2-[(3,4-dimethoxy-2-pyridyl)methylsulphonyl]-1H-benzimidazole

High-performance liquid chromatographic determination of the H^+/K^+ ATPase inhibitor (BY 1023/SK&F 96 022) and its sulphone metabolite in serum or plasma by direct injection and fully automated pre-column sample clean-up 529(1990)389

Sodium dodecyl sulphate

High-performance liquid chromatography of levomepromazine (methotrimeprazine) and its main metabolites 503(1990)205

Transient changes of mobile phase in the high-performance liquid chromatographic separation of priority pollutant phenols 507(1990)399

Binding of sodium dodecyl sulphate to an integral membrane protein and to a water-soluble enzyme. Determination by molecular-sieve chromatography with flow scintillation detection 512(1990)3

Equilibrium of octadecylsilica gel with sodium dodecyl sulphate 515(1990)67

Effect of sodium dodecyl sulphate in protein samples on separation with free capillary zone electrophoresis 545(1991)397

Sodium halides

Application of macrocyclic ligands to ion chromatography (Review) 546(1991)73

Sodium hydroxide

Applications of gel filtration chromatography for

resole phenolic resins using aqueous sodium hydroxide as solvent 513(1990)271

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Sodium iodide

Trifluoroacetic anhydride–sodium iodide as a reagent for the selective detection of nitroso compounds by thin-layer chromatography 516(1990)467

Sodium 2-mercaptoethanesulphonate

High-performance liquid chromatographic determination of aliphatic thiols with aroylacrylic acids as fluorogenic precolumn derivatization reagents 507(1990)451

Sodium metabisulphite

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Sodium periodate

Determination of pseudouridine in human urine and serum by high-performance liquid chromatography with post-column fluorescence derivatization 515(1990)495

Sodium sulphate

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Sodium tetraborate

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Solamargine

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Solanesol

Determination of solanesol in tobacco by capillary gas chromatography 513(1990)55

α -Solanine

High-performance liquid chromatographic determination of glycoalkaloids in potato products 508(1990)141

Solasonine

Recent applications of counter-current chromatography to the isolation of bioactive natural products 538(1991)187

Soman

Capillary column gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry detection of chemical warfare agents in a complex airborne matrix 504(1990)259

Thermal desorption–gas chromatography of some organophosphates and S-mustard after trapping on Tenax 514(1990)273

Detection of sarin and soman in a complex airborne matrix by capillary column ammonia chemical ionization gas chromatography–mass spectrometry and gas chromatography–tandem mass spectrometry 541(1991)121

Somatomedins

Application of preparative high-performance liquid chromatography to the purification of a fetal ovine insulin-like growth factor II: N-terminal sequence determinations using two different carriers 533(1990)35

Sorbic acid

Determination of sorbic acid in margarine and butter by high-performance liquid chromatography with fluorescence detection 543(1991)69

Sorbitol

Gas–liquid chromatographic assay of the components of electrochemically reduced glucose solutions. Impurities in sorbitol samples 520(1990)185

Analysis of Palatinit® (isomalt) and its monomers in rat intestinal samples by high-performance liquid chromatography with ultraviolet detection 527(1990)238

Sorboflavin

Determination of flavins in dairy products by high-performance liquid chromatography using sorboflavin as internal standard 511(1990)359

Sotalol

High-performance liquid chromatographic assay of sotalol: improved procedure and investigation of peak broadening 534(1990)271

Spacers

Use of discrete spacers for the separation of proteins by gel isotachopheresis 545(1991)391

Sparteine

Effective sample preparation method for extracting biologically active compounds from different matrices by a microwave technique 520(1990)257

Simultaneous determination of sparteine and its 2-dehydro and 5-dehydro metabolites in urine by high-performance liquid chromatography with electrochemical detection 529(1990)194

Spearmint oil

Computer simulation as an aid in method development for gas chromatography. II. Changes in band spacing as a function of temperature 541(1991)21

Computer simulation as an aid in method development for gas chromatography. III. Examples of its application 541(1991)35

Spermidine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Spermidine, acetylated

Separation of spermidine derivatives by reversed-phase high-performance liquid chromatography using a UV-absorbing counter ion 508(1990)229

Spermine

Simultaneous determination of biogenic amines by reversed-phase high-performance liquid chromatography 508(1990)225

High-performance liquid chromatographic method for the determination of dansyl-polyamines 511(1990)177

Investigation of interfering products in the high-performance liquid chromatographic determination of polyamines as benzoyl derivatives 518(1990)264

Liquid chromatography-mass spectrometry studies of 9-fluorenylmethyl chloroformate derivatives of polyamines 540(1991)199

Sphingolipids

Preparative separation of sphingolipids and of individual molecular species by high-performance liquid chromatography and their identification by gas chromatography-mass spectrometry 509(1990)333

Squalane

Regression against temperature of gas chromatographic retention data 504(1990)45

Stabilizers

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Stachyose

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Starches

Gel permeation chromatographic determination of starches using alkaline eluents 536(1991)251

Stearic acid

Identification of individual diacylglycerols by adsorption thin-layer chromatography of their coordination complexes 538(1991)373

Stearyl alcohol

Long-chain fatty alcohol quantitation in subfemtomole amounts by gas chromatography-negative ion chemical ionization mass spectrometry. Application to long-chain acyl coenzyme A measurement 509(1990)325

Steranes

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Sterigmatocystin

Determination of sterigmatocystin in fermentation broths by reversed-phase high-performance liquid chromatography using post-column fluorescence enhancement 523(1990)305

Steroid hormone receptor

One-step 10^4 -fold purification of transformed glucocorticoid receptor. Method for purifying receptors associated with M_r ca. 90 000 heat-shock protein 508(1990)97

Steroids

Normal-phase high-performance liquid chromatographic analysis of polyhydroxysteroids using non-polar bonded silica columns 505(1990)408

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Efficient determination of phytoecdysteroids from *Ajuga* species and *Polypodium vulgare* by high-performance liquid chromatography 514(1990)199

Ferroceneboronic acid as a derivatization reagent for the determination of brassinosteroids by high-performance liquid chromatography with electrochemical detection 515(1990)227

Supercritical fluid extraction and chromatography of steroids with Freon-22 515(1990)515

Sensitive assay system for bile acids and steroids having hydroxyl groups utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 515(1990)577

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Semi-automated high-performance liquid chromatographic method for the simultaneous assay of plasma cortisol and 11-deoxycortisol in the metyrapone test 526(1990)180

Analysis of diethylstilbestrol, dienestrol and hexestrol in biological samples by immunoaffinity extraction and gas chromatography-negative-ion chemical ionization mass spectrometry 527(1990)267

Analysis of corticosterone in rat urine by high-performance liquid chromatography and fluorimetry using post-column reaction with sulphuric acid 528(1990)453

Determination of megestrol acetate and cyproterone acetate in serum of patients with advanced breast cancer by high-performance liquid chromatography 529(1990)145

Determination of 7-dehydrocholesterol in human skin by high-performance liquid chromatography 530(1990)19

Comparison of the liquid chromatographic behaviour of selected steroid isomers using different reversed-phase materials and mobile phase compositions 537(1991)73

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Sterols

Semi-preparative separation of polyhydroxylated sterols using a β -cyclodextrin high-performance liquid chromatography column 539(1991)15

Stilbene

Development and use of carbon adsorbents in the liquid chromatographic separation of isomers 506(1990)371

Streptavidin

Application of avidin-biotin technology to affinity-based separations (Review) 510(1990)3

Procedure for the purification of streptavidin by hydrophobic interaction chromatography 520(1990)325

Strontium

Use of isotachopheresis as a reference method for the simultaneous determination of barium and strontium 545(1991)475

Styrene

Studies on the selectivity of porous polymers based on polyaromatic esters 503(1990)41

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Applications of semi-micro supercritical fluid chromatography with gradient elution to synthetic oligomer separation 515(1990)629

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Styrene-alkyl methacrylates

Separation and detection of styrene-alkyl methacrylate and ethyl methacrylate-butyl methacrylate copolymers by liquid adsorption chromatography using a dichloroethane mobile phase and a UV detector 541(1991)375

Styrene copolymers

Liquid adsorption chromatography of styrene copolymers of methacrylates and acrylates 507(1990)473

Styrene-8,9-oxide

Direct determination of styrene-7,8-oxide in blood by gas chromatography with flame ionization detection 534(1990)67

Succinate

Computer-assisted choice of electrolyte systems and spacing constituents for two-dimensional capillary isotachopheresis 509(1990)287

Succinic acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Succinylcholine

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Succinylcholine hydrolytic enzyme

Determination of succinylcholine hydrolytic enzyme activity in human plasma 533(1990)23

Sucrose

Simultaneous determination of organic acids and sugars in apples by gas-liquid chromatography 520(1990)201

Column liquid chromatographic determination of saccharides with a single calibration graph using post-column enzyme reactors and coulometric detection 549(1991)127

Sucrose fatty acid esters

Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431

Sucrose monostearate

Chromatographic separations of sucrose monostearate structural isomers 522(1990)245

Sudan III

Toroidal coil centrifugal partition chromatography, a method for measuring partition coefficients 538(1991)119

Sugar phosphates

High-performance reversed-phase ion-pair chromatographic study of myo-inositol phosphates. Separation of myo-inositol phosphates, some common nucleotides and sugar phosphates 523(1990)201

Sugars

see also Carbohydrates and Saccharides

Simultaneous determination of neutral and amino sugars in biological materials 513(1990)71

Separation and partial characterization of Maillard reaction products by capillary zone electrophoresis 516(1990)287

Sulbactam

Simultaneous determination of ampicillin and sulbactam by liquid chromatography: post-column reaction with sodium hydroxide and sodium hypochlorite using an active hollow-fibre membrane reactor 532(1990)87

2-Sulfanilamidopyridine

High-performance liquid chromatography of sulfapyridine and its acetyl and glucuronide metabolites in rat and human urine 534(1990)214

Sulfapyridine

High-performance liquid chromatography of sulfapyridine and its acetyl and glucuronide metabolites in rat and human urine 534(1990)214

Sulindac

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Liquid chromatography with amperometric detection for the determination of non-steroidal anti-inflammatory drugs in plasma 533(1990)125

Sulphadimethoxine

High-performance liquid chromatographic analysis of Romet-30® in salmon following administration of medicated feed 518(1990)179

High-performance liquid chromatography of sulphadimethoxine and its N_1 -glucuronide, N_4 -acetyl and N_4 -acetyl- N_1 -glucuronide metabolites in human plasma and urine 526(1990)119

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Sulphadimethoxine- N_1 -glucuronide

High-performance liquid chromatography of sulphadimethoxine and its N_1 -glucuronide, N_4 -acetyl and N_4 -acetyl- N_1 -glucuronide metabolites in human plasma and urine 526(1990)119

Sulphadimidine

Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

Sulphamethazine

Identification and determination of sulphamethazine and N^4 -acetylsulphamethazine in meat by high-performance liquid chromatography with photodiode-array detection 502(1990)371

Solid-phase extraction of sulfamethazine in milk with quantitation at low ppb levels using thin-layer chromatography 519(1990)179

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Sulphamethoxazole

Comparison of colorimetric and high-performance liquid chromatographic determination of sulphamethoxazole and acetylsulphamethoxazole 527(1990)174

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N^4 -acetylsulfamethoxazole with solid-phase extraction 528(1990)235

Sulphamonomethoxine

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

3-Sulphamoylmethyl-1,2-benzisoxazole

Determination of zonisamide (3-sulphamoylmethyl-1,2-benzisoxazole) in plasma at therapeutic concentrations by high-performance liquid chromatography 534(1990)173

Sulphasalazine

Determination of 5-aminosalicylic acid and related compounds in raw materials and pharmaceutical dosage forms by high-performance liquid chromatography 540(1991)416

Sulphate

Comparative analysis of organic acids located on the surface of natural building stones by high-performance liquid, gas and ion chromatography 514(1990)241

Analysis of atmospheric precipitation by reversed-phase ion-pair chromatography 514(1990)362

Simultaneous determination of extractable sulphate and malate in plant extracts using ion chromatography 514(1990)371

Ion-exchange separation of inorganic anions on a HEMA 1000 Q-L column 520(1990)349

Quantitation of free sulfate and total sulfoesters in human breast milk by ion chromatography 527(1990)41

Sample preparation for ion chromatography by solid-phase extraction 546(1991)61

Comparison of gradient elution separations for organic and inorganic anions with chemically suppressed conductometric detection 546(1991)125

Recent advances in the simultaneous determination of anions and silica in high-purity water 546(1991)209

On-column matrix elimination of high levels of chloride and sulfate in non-suppressed ion chromatography 546(1991)221

Ion chromatography for the analysis of household consumer products 546(1991)351

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Analysis of anion constituents of urine by inorganic capillary electrophoresis 546(1991)459

Sulphatide

Improved separation of lysoglycolipids from solvolysates by reversed-phase high-performance liquid chromatography 549(1991)133

Sulphide

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a kryptand as phase-transfer catalyst 502(1990)257

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Determination of sulfide in brain tissue and rumen fluid by ion-interaction reversed-phase high-performance liquid chromatography 526(1990)540

Sulphinic acid

High-performance liquid chromatographic investigation of the interaction of phenylmercuric nitrate and sodium metabisulphite in eye drop formulations 511(1990)233

Sulphisozole

Simultaneous determination of residual synthetic antibacterials in fish by high-performance liquid chromatography 538(1991)484

Sulphite

Sulfite-disulfite equilibrium on an ion chromatography column 508(1990)271

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Sulpho esters

Quantitation of free sulfate and total sulfoesters in human breast milk by ion chromatography 527(1990)41

Sulphonamides

Method for the isolation and liquid chromatographic determination of eight sulfonamides in milk 502(1990)87

Capillary gas chromatographic determination of sulphadimidine in pork tissues 503(1990)260

Analysis of sulphonamides using supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 540(1991)239

Improvement of chemical analysis of antibiotics. XVII. Application of an amino cartridge to the determination of residual sulphonamide antibacterials in meat, fish and egg 541(1991)393

Optimization of chromatographic selectivity of twelve sulphonamides in reversed-phase high-performance liquid chromatography using mixture designs and multi-criteria decision making 545(1991)101

High-performance liquid chromatographic determination of low levels of primary and secondary amines in aqueous solutions including 2-amino-2-methylpropanol by pre-column derivatisation to sulphonamides 547(1991)447

Sulphonates

Gas chromatographic method for the assay of aliphatic and aromatic sulphonates as their *tert.*-butyldimethylsilyl derivatives 513(1990)61

Sulphonylureas

Simultaneous determination of the sulphonylurea glimepiride and its metabolites in human serum and urine by high-performance liquid chromatography after pre-column derivatization 526(1990)497

Sulphur

Element-selective detection after supercritical fluid chromatography by means of a Surfatron plasma in the near-infrared spectral region 517(1990)477

Sulphur chlorides

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sulphur dioxide

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sulphuryl chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Sunscreen agents

Determination of sunscreen agents in cosmetic products by gas chromatography and gas chromatography-mass spectrometry 513(1990)321

Sunset Yellow FCF

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Superdex 75 prep grade

Chemical properties of and solute-support interactions with the gel filtration medium Superdex 75 prep grade 514(1990)137

Superoxide dismutase

Isolation of isoproteins from monoclonal antibodies and recombinant proteins by chromatofocusing 512(1990)157

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Glycosylation of extracellular superoxide dismutase studied by high-performance liquid chromatography and mass spectrometry 548(1991)293

Suprofen

Determination of the enantiomers of suprofen and [$^2\text{H}_3$]suprofen in plasma by capillary gas chromatography-mass spectrometry 525(1990)93

Suramin

Bioanalysis of suramin in human plasma by ion-pair high-performance liquid chromatography 525(1990)141

Surfactants

Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism 503(1990)449

Supercritical fluid chromatography-mass spectrometry of non-ionic surfactant materials using chloride-attachment negative ion chemical ionization 505(1990)199

Chromatographic separation of surfactants. XII. Quantification of results in trial high-performance liquid chromatography of ethoxylated surfactants 509(1990)201

Optimization of high-performance liquid chromatographic analysis with UV detection: light-scattering detection to establish the coelution of UV- and non-UV-absorbing constituents 513(1990)354

Analysis of carbamazepine in serum by liquid chromatography with direct sample injection and surfactant-containing eluents 535(1990)293

Determination of non-ionic surfactants with ester groups by high-performance liquid chromatography with post-column derivatization 541(1991)431

Syringaldehyde

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Syringic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

T**T-2 toxin**

Heptafluorobutyrylation of trichothecenes using a solid-phase catalyst 511(1990)384

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Tachykinins

High-performance liquid chromatographic separation of tachykinins using Tris-phosphate as the buffer component of the mobile phase 533(1990)179

Tacrine

High-performance liquid chromatography for the determination of tacrine and its metabolites in plasma 530(1990)170

Tamoxifen

Identification of products formed during UV irradiation of tamoxifen and their use for fluorescence detection in high-performance liquid chromatography 514(1990)179

Tannic acid

High-performance liquid chromatographic method for the comparison of tanning capacity of tannic acid batches used in the manufacture of pregnancy testing kits 513(1990)263

Tanshinones

High-performance liquid chromatography of abietane-type compounds 542(1991)317

Tartaric acid

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Tartrate

Ion chromatography in the manufacture of multilayer circuit boards 546(1991)369

Tartrazine

Isotachopheresis of some synthetic colorants in foods 545(1991)413

Taurine

Analysis of taurine in feline plasma and whole blood by liquid chromatography with fluorimetric detection and confirmation by thermospray mass spectrometry 526(1990)375

Tauromustine

Determination of tauromustine and its demethylated metabolites in plasma and urine 526(1990)151

Tea

Rapid determination of caffeine in green tea by gas-liquid chromatography with nitrogen-phosphorus-selective detection 505(1990)435

Tear protein

Analysis of human tear proteins by different high-performance liquid chromatographic techniques 525(1990)319

Tebufelone

Determination of tebufelone (a new anti-inflammatory drug) strength and stability in bulk drug, dosage formulations and feed admixtures by reversed-phase high-performance liquid chromatography 505(1990)349

Tebuthiuron

Simplified high-performance liquid chromatography method for the simultaneous analysis of tebuthiuron and hexazinone 536(1991)223

Temafloxacin

Determination of minor impurities in temafloxacin hydrochloride by high-performance liquid chromatography 519(1990)125

Tenax

Sorption of primary *n*-alkanols on Tenax 518(1990)234

Tenilsetam

Determination of tenilsetam in human plasma and urine by high-performance liquid chromatography 529(1990)486

Tentoxin

High-performance liquid chromatographic determination of tentoxin in fermentation of *Alternaria porri* (Ellis) Ciferri 539(1991)211

Terallethrin

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Terbufos

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbufos sulphone

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbufos sulphoxide

Simple, direct gas chromatography-mass spectrometry interface for the ion trap detector 504(1990)429

Terbutaline

Use of cyclodextrins in capillary zone electrophoresis. Resolution of terbutaline and propranolol enantiomers 545(1991)437

Terminal deoxynucleotidyl transferase

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Terpanes

Tandem mass spectrometry —an additional dimension of chromatography for the determination of biomarkers in fossil fuels (Review) 550(1991)193

Terpene alcohols

Photochemical reaction coupled to solid-state peroxyoxalate chemiluminescence for the high-performance liquid chromatographic detection of compounds having weak chromophores 523(1990)163

Terpenes

Gas chromatographic determination of monoterpenes in essential oil medicinal plants 542(1991)451

Approach to direct chiral recognition of some terpenic hydrocarbon constituents of essential oils by gas chromatography systems via β -cyclodextrin complexation 543(1991)171

Chromatographic analysis of some commercial samples of camphene via cyclodextrin inclusion processes 543(1991)397

Terpenic alcohols

Direct liquid chromatographic separation of enantiomeric and diastereomeric terpenic alcohols as β -cyclodextrin inclusion complexes 503(1990)266

Terpenoid compounds

Chemical characteristics of herbivore defenses in *Betula pendula* winter-dormant young stems 547(1991)367

Terpenoids

Evaluation of high-performance liquid and capillary gas chromatography for analysis of sesquiterpene lactones of the Melampodiinae 504(1990)151

Use of two-dimensional gas chromatography in the direct enantiomer separation of chiral essential oil components 508(1990)341

Simple method for the isolation of azadirachtin by preparative high-performance liquid chromatography 513(1990)389

Determination of ginkgolides and bilobalide in *Ginkgo biloba* leaves and phytopharmaceuticals 543(1991)375

Use of a liquid crystal stationary phase at temperatures below its melting point for the gas chromatographic study of some volatile oil constituents 547(1991)335

Testosterone

Simultaneous measurements of endogenous and deuterium-labelled tracer variants of

androstenedione and testosterone by capillary gas chromatography-mass spectrometry 525(1990)15

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Testosterone esters

Simultaneous pH and ionic strength effects and buffer selection in capillary electrophoretic techniques 541(1991)483

Tetanus antitoxin

Use of chromatography for the preparation of homologous tetanus antitoxin 520(1990)425

Tetraalkylammonium ions

Gas chromatographic properties of organoammonium exchanged montmorillonites. I. Tetraalkylammonium cations 549(1991)273

Tetrabromotetrachlorofluorescein

Preparative purification of tetrabromotetrachlorofluorescein and Phloxine B by centrifugal counter-current chromatography 538(1991)157

Tetrabutylammonium chloride

Retention of some organic electrolytes in ion-pair reversed-phase high-performance liquid and reversed-phase high-performance thin-layer chromatographic systems 520(1990)403

Tetra-*n*-butyltin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Tetrachlorodibenzo-*p*-dioxins

Separation of highly hydrophobic compounds by cyclodextrin-modified micellar electrokinetic chromatography 516(1990)23

Tetrachloroethene

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Sorption isotherms of organic vapours on Tenax 514(1990)279

Use of ion-exclusion chromatography for monitoring fatty acids produced by bacterial anaerobic degradation of tetrachloroethene in ground water 536(1991)193

Tetrachloroquinone

Simultaneous assay of pentachlorophenol and its metabolite, tetrachloroquinone, by gas chromatography without derivatization 533(1990)111

Tetracyclines

High-performance liquid chromatographic procedures in monitoring the production and quality control of chlortetracycline 509(1990)189

Tetraethylene glycol dimethyl ether

Regression against temperature of gas chromatographic retention data 504(1990)45

Tetrahydroaminoacridine

Simultaneous determination of physostigmine and tetrahydroaminoacridine in a transdermal permeation study by high-performance liquid chromatography 526(1990)87

Tetrahydrocannabinols

Determination of cannabinoid acids by high-performance liquid chromatography of their neutral derivatives formed by thermal decarboxylation. I. Study of the decarboxylation process in open reactors 520(1990)339

4,2',4',6'-Tetrahydrochalcone-2'-glucoside

High-performance liquid chromatographic determination of flavonoid glucosides from *Helichrysum italicum* 537(1991)449

Tetrahydro-4-oxopyridopyrimidine

Correlation between structure and gas chromatographic behaviour of nitrogen-containing heterocyclic compounds. I. Methyl substitution of pyridopyrimidine derivatives 537(1991)365

Tetrahydropapaveroline

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

1,2,3,4-Tetraisoquinoline

Endogenous synthesis of N-methyl-1,2,3,4-tetrahydroisoquinoline, a precursor of N-methylisoquinolinium ion, in the brains of primates with parkinsonism after systemic administration of 1,2,3,4-tetrahydroisoquinoline 533(1990)145

 α -Tetralone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

 β -Tetralone

Utility of the displacement effect in the routine optimization of separations by preparative liquid chromatography 523(1990)63

Tetramethrine

Determination of permethrine and tetramethrine by isotachophoretic analysis of hydrolytic products 545(1991)427

Tetramethylammonium chloride

Gas chromatographic retention properties of organoammonium exchanged montmorillonites. II. $\text{CH}_3\text{N}^+\text{H}_3$, $(\text{CH}_3)_4\text{N}^+$, $(\text{CH}_3)_3\text{N}^+\text{CH}_2\text{C}_6\text{H}_5$ and 1,4-diazabicyclo[2.2.2]octane $\cdot 2\text{H}^+$ 549(1991)283

Tetramethylscutellarein

High-performance liquid chromatography with diode-array ultraviolet detection of methoxylated flavones in *Orthosiphon* leaves 547(1991)439

Tetraphenylporphine complexes

High-performance thin-layer chromatography of rare earth tetraphenylporphine complexes 504(1990)179

Factors influencing the retention of rare earth-tetraphenylporphine complexes in reversed-phase high-performance liquid chromatography 542(1991)351

Tetra-*n*-propyltin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Tetrapyrroles

High-performance liquid chromatographic analysis of bile pigments as their native tetrapyrroles and as their dipyrrolic azosulfanilate derivatives 529(1990)287

Tetrapyrroles, carboxylated

Separation of porphyrins on cyclodextrin-bonded phases with a novel mobile phase 508(1990)375

Thallium

Use of crown ethers in the isotachophoretic determination of metal ions 523(1990)281

Theaflavins

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Thearubigins

Counter-current chromatography of black tea infusions 505(1990)357

Comparative study of the reversed-phase high-performance liquid chromatography of black tea liquors with special reference to the thearubigins 542(1991)115

Thebaine

Extraction of major alkaloids from poppy straw with near-critical mixtures of carbon dioxide and polar modifiers 505(1990)247

Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography 505(1990)307

Separation of opium alkaloids by thin-layer chromatography combined with flame ionization detection using the peak pyrolysis method 547(1991)538

2-(α -Thenoylthio)propionylglycine

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Theobromine

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Theophylline

Multiple absorbance ratio correlation — a new approach for assessing peak purity in liquid chromatography 506(1990)289

Simultaneous analysis of theophylline, caffeine and eight of their metabolic products in human plasma by gradient high-performance liquid chromatography 507(1990)199

Direct sample injection into the high-performance liquid chromatographic column in theophylline monitoring 515(1990)321

Determination of anticonvulsant drugs and methyl xanthine derivatives in serum by liquid chromatography with direct injection: column-switching method using a new internal-surface reversed-phase silica support as a precolumn 529(1990)455

Synthesis of mixed-functional-phase silica supports for liquid chromatography and their applications to assays of drugs in serum 535(1990)163

Thermitase

High-performance liquid chromatographic method for the study of solvent effects on the peptidase and esterase activity of thermitase 520(1990)333

Thermolysin

Mobile phase effects in the high-performance affinity purification of thermolysin 549(1991)195

Thiamine

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

High-performance liquid chromatographic determination of biotin in pharmaceutical preparations by post-column fluorescence reaction with thiamine reagent 542(1991)365

Thiazolidines

High-performance liquid chromatography of thiazolidinic compounds 514(1990)80

Thiazolidinones

Thin-layer chromatography of thiazolidinones. I 542(1991)531

Thieno[2,3-*b*]thiopyran-2-sulphonamide

Development of direct stereoselective and non-stereoselective assays in biological fluids for the enantiomers of a thieno[2,3-*b*]thiopyran-2-sulphonamide, a topically effective carbonic anhydrase inhibitor 526(1990)461

Thimerosal

Simultaneous determination of thimerosal and chlorhexidine in solutions for soft contact lenses and its applications in stability studies 523(1990)321

High-performance liquid chromatographic assay of thiomersal (thimerosal) as the ethylmercury dithiocarbamate complex 542(1991)137

Thioalcohols

Topological indices as structural parameters.
Structure-retention relationships for oxyethylene derivatives of alcohols, thioalcohols and alkylamines 547(1991)247

Thioalkyl agaroses

Synthesis and protein-binding properties of spacer-free thioalkyl agaroses 521(1990)1

Thiobenzanilides

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Thiocyanate

Ion chromatography with ultraviolet and amperometric detection for iodide and thiocyanate in concentrated salt solutions 502(1990)121

Simultaneous gas chromatographic determination of cyanide, iodide, nitrite, sulphide and thiocyanate anions by derivatization with pentafluorobenzyl bromide and using a cryptand as phase-transfer catalyst 502(1990)257

Use of cyclodextrins in the isotachophoretic determination of various inorganic anions 518(1990)189

Determination of free cyanide in gold cyanidation process liquors by ion-interaction chromatography with post-column derivatization 550(1991)559

Thiodiglycol

Quantification of thiodiglycol in urine by electron ionization gas chromatography-mass spectrometry 528(1990)184

Thioethoxylates

Use of sulfur chemiluminescence detection after supercritical fluid chromatography 517(1990)491

Thiogluconide

Measurement of the formation of a thiogluconide, a metabolite of malotilate, in rat hepatic microsomes by high-performance liquid chromatography 526(1990)254

 α -Thioglycerol

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thiohydrazides

Chromatographie en couche mince sur gel de silice avec double imprégnation ascendante à sens inversés à l'huile de silicone 509(1990)400

Thiolactones

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Thiols

2,4-Dinitrophenylpyridium chloride, a novel and versatile reagent for the detection of amino acids, primary and secondary amines, thiols, thiolactones and carboxylic acids during planar chromatography 504(1990)456

Application of micro-scale liquid chromatography with fluorescence detection to the determination of thiols 514(1990)189

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Gas chromatographic determination of traces of light hydrocarbons and sulphur compounds in gases at low pressure by the simultaneous use of flame ionization and flame photometric detectors 521(1990)99

Generation of standard gaseous mixtures by thermal decomposition of surface compounds. Standard mixtures of thiols 540(1991)449

Thiomalic acid

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thionalide

High-performance liquid chromatography of thiols with differential pulse polarographic detection of the catalytic hydrogen evolution current 515(1990)257

Thionicotinamide

Capillary tube isotachophoretic separation of niacin derivatives 521(1990)158

Thionyl chloride

Determination of impurities in thionyl chloride by gas chromatography 520(1990)163

Thiopental

Determination of thiopental measured in human blood by reversed-phase high-performance liquid chromatography 527(1990)220

Thiophenecarboxylic acid

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Thiopronine

High-performance liquid chromatographic evaluation of 2-(α -thenoylthio)propionylglycine and its two metabolites in biological fluids 536(1991)327

Thioridazine

Determination of the serum concentrations of thioridazine and its main metabolites using a solid-phase extraction technique and high-performance liquid chromatography 529(1990)229

Thiosulphinate esters

Enantiomeric separation of racemic thiosulphinate esters by high-performance liquid chromatography 541(1991)464

6-Thiouric acid

Isolation of 6-mercaptopurine in human plasma by aluminum ion complexation for high-performance liquid chromatographic analysis 536(1991)349

Thrombin

Double-coated silica supports for high-performance affinity chromatography of proteins 510(1990)71

Specific adsorption of serine proteases on coated silica beads substituted with amidine derivatives 510(1990)123

Thromboxanes

11-Dehydrothromboxane B₂: convenient preparation of its stable isotope-labelled analogue for use in quantitative gas chromatography-mass spectrometry 526(1990)169

High-performance liquid chromatographic detection of myocardial prostaglandins and thromboxanes 536(1991)309

Thymidine

Adduct formation identification between phenyl glycidyl ether and 2'-deoxyadenosine and

thymidine by chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy 504(1990)113

Thymidine hydroperoxides

Analysis of thymidine hydroperoxides by post-column reaction high-performance liquid chromatography 504(1990)191

Thymine

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Thymol blue

High-pressure and supercritical capillary electrophoresis 517(1990)573

Thyroid-stimulating hormone

Separation of human glycoprotein hormones and their subunits by reversed-phase liquid chromatography 529(1990)33

L-Thyroxine

Determination of L-thyroxine in reference serum preparations as the *o*-phthalaldehyde-N-acetylcysteine derivative by reversed-phase liquid chromatography with electrochemical detection 525(1990)287

Tibenelast

Determination of a potential antiasthmatic compound, tibenelast, and its application to phase I clinical trials 529(1990)377

Timolol

Direct separation and optimization of timolol enantiomers on a cellulose tris-3,5-dimethylphenylcarbamate high-performance liquid chromatographic chiral stationary phase 511(1990)109

Identification using solid phase extraction and gas chromatography-mass spectrometry of timolol in equine urine after intravenous administration 518(1990)215

Simple and sensitive determination of timolol in human plasma and urine by high-performance liquid chromatography with ultraviolet detection 533(1990)255

Tinuvins

Characterization of polymer additives by supercritical fluid chromatography and by liquid chromatography 505(1990)283

Pyrolytic analysis of complex stabilizers in polypropylene 505(1990)375

Retention prediction for polymer additives in reversed-phase liquid chromatography 550(1991)325

Tissue plasminogen activator

Affinity purification of tissue plasminogen activator using transition-state analogues 510(1990)83

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Immobilized metal ion affinity partitioning, a method combining metal-protein interaction and partitioning of proteins in aqueous two-phase systems 539(1991)267

Titanium dioxide

Potential-barrier field-flow fractionation, a versatile new separation method 517(1990)345

Titanium oxide

Titania and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111

Tobramycin

High-performance liquid chromatographic determination of isepamicin in plasma, urine and dialysate 526(1990)487

Determination of tobramycin using high-performance liquid chromatography with pulsed amperometric detection 527(1990)244

Tocopherols

Isolation of tocopherols from wheat germ oil by recycle semi-preparative supercritical fluid chromatography 505(1990)257

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Applications of preparative high-performance liquid chromatography in oleochemical research 536(1991)75

Tolmetin

Determination of non-steroidal anti-inflammatory analgesics in solid dosage forms by high-performance liquid chromatography on underivatized silica with aqueous mobile phase 504(1990)381

Tolperisone

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Toluene

Improvement of activated carbon for air sampling 503(1990)33

Isotope dilution gas chromatography-mass spectrometry in the determination of benzene, toluene, styrene and acrylonitrile in mainstream cigarette smoke 503(1990)359

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Comparison of discharge tubes for deuterium-specific gas chromatographic detection with a microwave-induced plasma 508(1990)187

Liquid chromatography of liquid substances characterized by limited solubility in the eluent 509(1990)157

Monosized polymer particles in size-exclusion chromatography. I. Toluene as solvent 514(1990)1

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Multi-component principal component regression and partial least-squares analyses of overlapped chromatographic peaks 539(1991)123

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Toluidines

Chromatographic characterization of silica-based reversed phases (Review) 544(1991)371

Toxic substances

Analysis of drugs and other toxic substances in biological samples for pharmacokinetic studies 531(1990)3

Toxins

Internal surface reversed-phase high-performance liquid chromatographic separation of the cyanobacterial peptide toxins microcystin-LA, -LR, -YR, -RR and nodularin 509(1990)390

Analysis of paralytic shellfish poisons by capillary electrophoresis 542(1991)483

Trace metals

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Transcription factors

Purification of the upstream element factor of the Adenovirus-2 major late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243

Transferrin

Tresyl-activated support for high-performance affinity chromatography 510(1990)101

Oligosaccharide mapping of therapeutic glycoproteins by high-pH anion-exchange high-performance liquid chromatography 512(1990)149

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures 515(1990)659

Metal ligand-induced alterations in the surface structures of lactoferrin and transferrin probed by interaction with immobilized copper(II) ions 536(1991)1

Determination of *pI* by measuring the current in the mobilization step of high-performance capillary isoelectric focusing. Analysis of transferrin forms 545(1991)403

Transforming growth factor

Separation and microanalysis of growth factors by Phast system gel electrophoresis and by DNA synthesis in cell culture 543(1991)463

Transition metals

Separation of cations using methacrylate-based low-capacity cation exchangers 509(1990)369

Preparative isotachophoretic analyser equipped with a dropwise fractionating device 513(1990)297

Progress in optimization of transition metal cation chromatography and its application to analysis of silicon wafer contamination 546(1991)243

T4 receptor protein

Use of high-performance capillary electrophoresis to monitor charge heterogeneity in recombinant-DNA derived proteins 516(1990)115

Trehalose

Isolation of the insect metabolite trehalose by high-performance liquid chromatography 515(1990)573

Trenbolone

Packed-column supercritical fluid chromatography-mass spectrometry and supercritical fluid chromatography-tandem mass spectrometry with ionization at atmospheric pressure 511(1990)257

Determination of 19-nortestosterone, testosterone and trenbolone by gas chromatography-negative-ion mass spectrometry after formation of the pentafluorobenzylcarboxymethoxime-trimethylsilyl derivatives 547(1991)325

Tretinoin

Determination of tretinoin in creams by high-performance liquid chromatography 522(1990)227

Triacylglycerols

Determination of α -tocopherol, free cholesterol, esterified cholesterols and triacylglycerols in human lipoproteins by high-performance liquid chromatography 515(1990)585

Static coating of 5 to 50 μm I.D. capillary columns for open tubular column chromatography 517(1990)503

Effect of carbon dioxide flow-rate on the separation of triacylglycerols by capillary supercritical fluid chromatography 518(1990)69

Dynamic impregnation of silica stationary phases for the argentation chromatography of lipids 519(1990)349

Packed-microbore supercritical fluid chromatography with flame ionization detection of abused vegetable oils 540(1991)271

Determination of egg yolk cholesterol content by on-column capillary gas chromatography 540(1991)323

Determination of plant triacylglycerols using capillary gas chromatography, high-performance liquid chromatography and mass spectrometry 542(1991)145

Determination of bovine butterfat triacylglycerols by reversed-phase liquid chromatography and gas chromatography 543(1991)81

Role of π - π interactions in reversed-phase liquid chromatography 550(1991)267

Separation of triacylglycerols by supercritical-fluid argentation chromatography 550(1991)765

Triazines

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Characterization of the thermal decomposition products of the sulfonylurea herbicide chlorsulfuron 505(1990)395

Reversed-phase high-performance liquid chromatographic method for the determination of soil-bound [14 C]atrazine and its radiolabeled metabolites in a soil metabolism study 514(1990)209

Systematic search for suitable two-phase solvent systems for high-speed counter-current chromatography 538(1991)99

Use of immobilized triazine dyes in the purification of DNA topoisomerase I (Topo I) and terminal deoxynucleotidyl transferase (TdT) from calf thymus 539(1991)525

Triazoles

Analysis of triazine and triazole herbicides by gradient-elution supercritical fluid chromatography 505(1990)293

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonsulvant agents 533(1990)248

Triazolines

Triazolines. XXII. Chromatography of 1-phenyl-5-(4-pyridyl)- Δ^2 -1,2,3-triazolines and related 1,2,3-triazoles, a new class of anticonsulvant agents 533(1990)248

Tributyl phosphate

Analysis of *n*-octyl(phenyl)-*N,N*-diisobutylcarbamoylmethylphosphine oxide and TRUEX process solvent by gas and liquid chromatography 516(1990)395

Simultaneous determination of tributyl phosphate and dibutyl phosphate in spent fuel reprocessing streams by gas chromatography 537(1991)489

Tri-*n*-butyl tin

Sheathed-flow hydrogen atmosphere flame ionization detector for gas chromatography 518(1990)297

Trichloroacetic acid

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Trichloroethanol

Determination of chloral hydrate metabolism in adult and neonate biological fluids after single-dose administration 528(1990)333

Trichloroethene

Determination of biogenic and anthropogenic volatile halocarbons in sea water by liquid-liquid extraction and capillary gas chromatography 513(1990)39

Trichlorosilanes

Investigations by 29 Si cross-polarization magic angle spinning NMR spectroscopy of reaction pathways of silica gel polyfunctional modification 506(1990)343

Trichothecenes

Identification of trichothecenes by frit-fast atom bombardment liquid chromatography-high-resolution mass spectrometry 538(1991)323

Use of 1-[*p*-(2,3-dihydroxypropoxy)phenyl]-1-alkanones as retention index standards in the identification of trichothecenes by liquid chromatography-thermospray and dynamic fast atom bombardment mass spectrometry 543(1991)39

Triclocarban

Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252

Triclosan

Determination of preservatives in cosmetic products by reversed-phase high-performance liquid chromatography. IV 508(1990)252

Tricosanoic acid

Nervonic acid *versus* tricosanoic acid as internal standards in quantitative gas chromatographic analyses of fish oil longer-chain $n-3$ polyunsaturated fatty acid methyl esters 533(1990)1

Tricothecenes

Heptafluorobutyrylation of tricothecenes using a solid-phase catalyst 511(1990)384

Use of M-series retention index standards in the identification of tricothecenes by electron impact mass spectrometry 513(1990)31

Tricyclic antidepressants

Optimization of multidimensional high-performance liquid chromatography for the determination of drugs in plasma by direct injection, micellar cleanup and photodiode array detection 507(1990)267

Detection of tricyclic antidepressants in body fluids by gas chromatography with a surface ionization detector 529(1990)189

Triethanolamine

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Improved determination of alkanolamines by liquid chromatography with electrochemical detection 546(1991)381

Triethylamine

L-Carnitine interference in gas chromatographic determination of total trimethylamine in urine: a novel assay method 532(1990)124

Triethylamine-N-oxide

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Triethylene glycol

Regression against temperature of gas chromatographic retention data 504(1990)45

Trifluoroacetic anhydride

Trifluoroacetic anhydride-sodium iodide as a reagent for the selective detection of nitroso

compounds by thin-layer chromatography 516(1990)467

 α -Trifluoromethyl- α -amino acids

Ligand-exchange chromatography of α -trifluoromethyl- α -amino acids on chiral sorbents 511(1990)115

Trifluoperidol

High-performance liquid chromatography of droperidol in whole blood 532(1990)181

Triglycerides

see Triacylglycerols

Trimetaphosphate

Determination of trimetaphosphate in pyrophosphate by capillary isotachopheresis 516(1990)473

Trimethoprim

High-performance liquid chromatographic analysis of trimethoprim in the presence of its degradation products 513(1990)392

Ion-paired high-performance liquid chromatographic separation of trimethoprim, sulfamethoxazole and N⁴-acetylsulfamethoxazole with solid-phase extraction 528(1990)235

Gas chromatographic determination of trimethoprim in plasma during high-dose trimethoprim-sulfamethoxazole treatment for *Pneumocystis carinii* pneumonia 528(1990)243

Hydrophilic shielding of hydrophobic, cation- and anion-exchange phases for separation of small analytes: direct injection of biological fluids onto high-performance liquid chromatographic columns (Review) 544(1991)41

Trimethylamine-N-oxide

Controlled thermal degradation for the identification and quantification of amine N-oxides in urine 514(1990)293

Trimethylbiphenyls

Identification and analysis of trimethylbiphenyls in petroleum 538(1991)424

2,2,4-Trimethyl-1,2-dihydroquinoline

High-performance liquid chromatography of rubber antidegradants with diode-array detection 545(1991)205

Trimethylolpropane trimethacrylate

Polymer-bound chiral polymers for use in enantiomer separations 540(1991)145

Trimethylsilyl esters

Preparation of pyrrolidides from fatty acids via trimethylsilyl esters for gas chromatographic-mass spectrometric analysis 513(1990)405

Trimetoquinol

Chiral separation of diltiazem, trimetoquinol and related compounds by micellar electrokinetic chromatography with bile salts 515(1990)233

Trimetoquinol hydrochloride

Reversed-phase high-performance liquid chromatographic separation of the enantiomers of trimetoquinol hydrochloride by derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate and application to the optical purity testing of drugs 539(1991)71

Trimetrexate

High-performance liquid chromatographic assay for trimetrexate in human plasma 526(1990)266

Improved chromatographic method for the determination of trimetrexate in urine 529(1990)468

2,4,6-Trinitrotoluene

Analysis of 2,4,6-trinitrotoluene and its transformation products in soils and plant tissues by high-performance liquid chromatography 518(1990)361

Triolein

Rapid and sensitive method for the quantitation of non-polar lipids by high-performance thin-layer chromatography and fluorodensitometry 549(1991)387

Triostin A

Liquid chromatographic investigation of quinoxaline antibiotics and their analogues by means of ultraviolet diode-array detection 507(1990)277

Tripeptides

Electrochemical detection of dipeptides and dipeptide amides 515(1990)451

Effects of mobile phase composition on the reversed-phase separation of dipeptides and tripeptides with cyclodextrin-bonded-phase columns 522(1990)143

Trisulphonic acid

Separation and identification of impurities in the dye intermediate 8-amino-1-naphthol-3,6-disulphonic acid (H-acid) by high-performance liquid chromatography 514(1990)330

Triterpenoids

Liquid chromatographic characterization of the triterpenoid patterns in *Ganoderma lucidum* and related species 542(1991)327

Trögers base

Coupled column chromatography in chiral separations. I. Enantiomeric separation on swollen microcrystalline cellulose triacetate columns after a pre-separation on a non-chiral alkylsilica column 513(1990)195

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Tropane alkaloids

Combination of ion-pair and column switching in high-performance liquid chromatography of tropane alkaloids 547(1991)175

Analysis of some tropane alkaloids in plants by mixed-column high-performance liquid chromatography 547(1991)468

Tropic acid

Gas chromatographic analysis of tropic, benzoic and cinnamic acids, biosynthetic tropane alkaloid precursors 539(1991)232

Tropicamide

(*R*)- and (*S*)-Naphthylethylcarbamate-substituted β -cyclodextrin bonded stationary phases for the reversed-phase liquid chromatographic separation of enantiomers 539(1991)83

Tropomyosins

Purification and characterization of recombinant tropomyosins 539(1991)465

Chromatographic and physical studies of tropomyosin in aqueous-organic media at low pH 543(1991)327

Truxillines

Isolation, identification and separation of isomeric truxillines in illicit cocaine 504(1990)391

Trypsin

One-step purification of trypsin and α -chymotrypsin by affinity chromatography on Eupergit-aprotinin, a novel carrier for purification of serine proteases 510(1990)239

Characteristics of ovomucoid-conjugated columns in the direct liquid chromatographic resolution of racemic compounds 511(1990)89

High-performance displacement chromatography-mass spectrometry of tryptic peptides of recombinant human growth hormone 512(1990)299

Binding capacities of hydroxyapatite for globular proteins 515(1990)193

Affinity of trypsin for amidine derivatives immobilized on dextran-coated silica supports 548(1991)255

Tryptamine

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Tryptophan

Adsorption chromatography on cellulose. VI. Further studies on the separation of D- and L-tryptophan on cellulose with aqueous solvents 510(1990)367

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Gas chromatography of tryptophan together with other amino acids in hydrochloric acid hydrolysates 520(1990)193

Determination of tryptophan and its metabolites in human plasma and serum by high-performance liquid chromatography with automated sample clean-up system 526(1990)367

Determination of six indolic compounds, including melatonin, in rat pineal using high-performance liquid chromatography with serial fluorimetric-electrochemical detection 528(1990)111

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

On-line multichannel Raman spectroscopic detection system for capillary zone electrophoresis 540(1991)355

Elimination of the temperature-induced loss of the enantioselectivity of chemically bonded albumin 543(1991)475

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Tryptophan metabolites

Optimization of conditions for the simultaneous separation of ten tryptophan metabolites using reversed-phase high-performance liquid chromatography 534(1990)13

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

D-Tubocurarine

Measurement of D-tubocurarine chloride in human urine using solid-phase extraction and reversed-phase high-performance liquid chromatography with ultraviolet detection 526(1990)228

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Tubulin

Isolation of mammalian brain tubulin by amino-activated gel chromatography 525(1990)71

Tuftsia

Application of an anhydrotrypsin-immobilized precolumn for selective separation of peptides having arginine or lysine at their C-termini by column-switching high-performance liquid chromatography 543(1991)59

Tyramine

Determination of tyramine in cheese by reversed-phase high-performance liquid chromatography with amperometric detection 504(1990)441

Identification and quantitation of N-acetyl metabolites of biogenic amines in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)13

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Tyrosine

Chiral chloroformates as transparent reagents for the resolution of metoprolol enantiomers by reversed-phase liquid chromatography 506(1990)593

Identification and quantitation of phenylalanine, tyrosine and dihydroxyphenylalanine in the thoracic nervous system of the locust, *Schistocerca gregaria*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 532(1990)1

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Chiral recognition mechanisms on chiral stationary phases derived from tyrosine. Specific influence of the nature of the asymmetric centre vicinal functional group 540(1991)129

Thin-layer chromatographic method for the simultaneous determination of physiological aromatic amino acids 547(1991)531

Chiral stationary phases derived from tyrosine (Review) 550(1991)357

Tyrosine derivatives

Chiral thin-layer chromatographic separation of phenylalanine and tyrosine derivatives 504(1990)450

Tyrosine metabolites

Determination of neurochemicals in biological fluids by using an automated high-performance liquid chromatographic system with a coulometric array detector 536(1991)229

Tyrosyl-tRNA synthetase

Purification of mammalian tyrosyl-tRNA synthetase by high-performance liquid chromatography 503(1990)277

U

U1 small nuclear RNA

Enrichment of biologically active U1 small nuclear RNAs by ion-exchange high-performance liquid chromatography 547(1991)462

Umbelliferone

Automated multiple development high-performance thin-layer chromatographic analysis of natural phenolic compounds 511(1990)396

Laser-light-scattering detection for high-speed counter-current chromatography 538(1991)87

Undecane

Renaissance of gas chromatography-time-of-flight mass spectrometry. Meeting the challenge of capillary columns with a beam deflection instrument and time array detection 518(1990)283

Uniconazole

Elution orders in the separation of enantiomers by high-performance liquid chromatography with some chiral stationary phases 535(1990)213

Upstream element factor

Purification of the upstream element factor of the Adenovirus-2 major-late promoter from HeLa and yeast by sequence-specific DNA affinity chromatography 510(1990)243

Uracil

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

High-performance liquid chromatography on silica dynamically modified with hydrazinium derivatives 521(1990)19

Determination of creatinine-related urinary uracil excretion in children by high-performance liquid chromatography 525(1990)277

Effect of sample viscosity in high-performance size-exclusion chromatography and its control 550(1991)705

Uranium

Preseparation of uranium by reversed-phase partition chromatography. Application to the determination of trace elements in nuclear-grade uranium compounds by inductively coupled plasma atomic emission spectrometry 537(1991)287

Urea

Effect of urea addition in micellar electrokinetic chromatography 545(1991)359

Uremic toxins

Scaling up in isolation of medium-size uraemic toxins 539(1991)449

Uric acid

Simultaneous determination of creatine, uric acid and creatinine by high-performance liquid chromatography with direct serum injection and multi-wavelength detection 525(1990)265

Urocanic acid

Rapid analysis of small molecules in the presence of DNA by high-performance liquid chromatography using internal surface reversed-phase silica 533(1990)195

Urokinase

Purification of urokinase by combined cation exchanger and affinity chromatographic cartridges 525(1990)297

Monosized adsorbents for high-performance affinity chromatography. Application to the purification of calf intestinal alkaline phosphatase and human urine urokinase 540(1991)103

Uronic acids

Studies on the chromatographic behaviour of some uronic acids and neutral sugars on an amino-bonded phase column 513(1990)227

Uroporphyrin

Determination of hydroxy and peroxy acid derivatives of uroporphyrin in the plasma of patients with congenital erythropoietic porphyria by high-performance liquid chromatography 550(1991)603

V**Vaccines**

High-performance size-exclusion chromatography and molar mass measurement by low-angle laser light scattering of recombinant yeast-derived human hepatitis B virus surface antigen vaccine particles 507(1990)25

Valine

Displacement chromatography on cyclodextrin-silicas. III. Enantiomer separations 506(1990)481

Investigation of parameters in the separation of amino acid enantiomers by supercritical fluid chromatography 514(1990)253

Enantiomeric resolution by micellar electrokinetic chromatography with chiral surfactants 515(1990)221

Solid-phase reagent containing the 3,5-dinitrophenyl tag for the improved derivatization of chiral and achiral amines, amino alcohols and amino acids in high-performance liquid chromatography with ultraviolet detection 537(1991)123

Valproic acid

Metabolic profiling of valproic acid in patients using negative-ion chemical ionization gas chromatography-mass spectrometry 527(1990)327

Simultaneous determination of six antiepileptic drugs by capillary gas chromatography 527(1990)428

Vanadium

High-performance liquid chromatographic method for the determination of vanadium in serum 532(1990)445

Simultaneous determination of molybdenum, vanadium, gallium, copper, iron and indium as 8-quinolinolate complexes by high-performance liquid chromatography 539(1991)225

Vanillic acid

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

High-performance liquid chromatography of biogenic amines in the corpus cardiacum of the American cockroach, *Periplaneta americana* 539(1991)193

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vanillin

Optimization of electrochemical detection in the high-performance liquid chromatography of lignin phenolics from lignocellulosic by-products 507(1990)439

Behaviour of phenols under supercritical fluid chromatographic conditions in relation to the pyrolysis of lignocellulosic materials 540(1991)225

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vanillin analogues

Fluoropolymers and fluorocarbon bonded phases as column packings for liquid chromatography (Review) 544(1991)187

Vanillyl alcohol

Application of a metal capillary column in gas chromatographic determination of catechol-O-methyltransferase activity 549(1991)434

Vasicine

Determination of vasicine and related alkaloids by gas chromatography-mass spectrometry 505(1990)424

Vasodilator-stimulated phosphoprotein

Analysis, purification and properties of a 50 000-dalton membrane-associated phosphoprotein from human platelets 521(1990)335

Vasopressins

High-performance liquid chromatographic determination of an arginine-containing octapeptide antagonist of vasopressin in human plasma by means of a selective post-column reaction with fluorescence detection 507(1990)79

Isocratic high-performance liquid chromatography-photodiode-array detection method for determination of lysine- and arginine-vasopressins and oxytocin in biological samples 536(1991)137

Vecuronium

Simple high-performance liquid chromatographic method for the analysis of the non-depolarizing neuromuscular blocking drugs in clinical anaesthesia 533(1990)241

Vecuronium bromide

Analysis of steroids. XLI. Ion-pair high-performance liquid chromatographic separation of quaternary ammonium steroids on silica 550(1991)639

Verapamil

Effects of the pre-column in automated on-column injection capillary gas chromatography 518(1990)307

Measurement of verapamil in human plasma by reversed-phase high-performance liquid chromatography using a short octyl column 528(1990)480

On-line determination and resolution of verapamil enantiomers by high-performance liquid chromatography with column switching 541(1991)411

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Verbenalin

Identification of a new minor iridoid glycoside in *Symplocos glauca* by thermospray liquid chromatography-mass spectrometry 515(1990)503

Vesamicol

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Vescalagin

Polyphenols of *Quercus robur* L. II. Preparative isolation by low-pressure and high-pressure liquid chromatography of heartwood ellagitannins 502(1990)107

Vesicants

Chromatographic analysis of chemical warfare agents (Review) 503(1990)293

Viloxazine

Sensitive one-step extraction procedure for high-performance liquid chromatographic determination of viloxazine in human plasma 529(1990)494

Vindesine

Important parameters in liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 511(1990)35

Vindoline

Gas chromatographic-mass spectrometric analysis of major indole alkaloids of *Catharanthus roseus* 505(1990)429

Vinpocetine

New assay method for the determination of vinpocetine in human plasma with gas chromatography-mass spectrometry without transesterification caused by solvents 529(1990)442

Vinriptol

High-performance liquid chromatographic bio-analysis and preliminary pharmacokinetics of the experimental antitumour drug vinriptol 529(1990)329

Vinyl acetate

Modified sorbents in binary stationary phase systems in gas chromatography 508(1990)193

Vinyl alcohol

Characteristics of C₄- and C₈-bonded vinyl alcohol copolymer gels for reversed-phase high-performance liquid chromatography 515(1990)175

Vinyl chloride

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Gas chromatographic study of interaction between vinyl chloride and poly(vinyl chloride) 550(1991)171

Multi-step procedure for the separation of vinyl chloride oligomers 550(1991)539

Viruses

Effects of temperature, carrier composition and sample load in asymmetrical flow field-flow fractionation 548(1991)393

Vitamin A

Endogenous levels of β -carotene in human buccal mucosa cells by reversed-phase high-performance liquid chromatography 526(1990)47

Vitamin A compounds

Capillary gas chromatography of retinoids (vitamin A compounds) and apo-retinoids: determination of Kováts retention indices 527(1990)406

Vitamin B₆

High-performance liquid chromatography of two derivatives of vitamin B₆, the carbamoyl derivatives of pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate 547(1991)472

Vitamin B₁₂

Separation and study of corrinoid cobalt-ligand isomers by high-performance liquid chromatography 536(1991)185

High-performance liquid chromatographic analysis of the (cyanoquo) stereoisomers of several putative vitamin B₁₂ precursors 537(1991)235

Determination of vitamin B₁₂ in multivitamin-multimineral tablets by high-performance liquid chromatography after solid-phase extraction 541(1991)383

Vitamin C

Determination of ascorbic acid, dehydroascorbic acid and ascorbic acid-2-phosphate in infiltrated apple and potato tissue by high-performance liquid chromatography 503(1990)431

High-performance liquid chromatographic post-column reaction system for the electrochemical detection of ascorbic acid and dehydroascorbic acid 504(1990)434

Utilization of capillary isotachopheresis in the determination of organic acids in food 509(1990)283

Assay for both ascorbic and dehydroascorbic acid in dairy foods by high-performance liquid chromatography using precolumn derivatization with methoxy- and ethoxy-1,2-phenylenediamine 543(1991)367

The use of pulsed amperometry combined with ion-exclusion chromatography for the simultaneous analysis of ascorbic acid and sulfite 546(1991)119

Vitamin D₂

Identification of vitamin D₂ by thermospray-interface mass spectrometry 543(1991)241

Determination of vitamin D₂ in shiitake mushroom (*Lentinus edodes*) by high-performance liquid chromatography 545(1991)201

Vitamins

Purity control of riboflavin-5'-phosphate (vitamin B₂ phosphate) by capillary zone electrophoresis 508(1990)203

Separation of water- and fat-soluble vitamins by micellar electrokinetic chromatography 547(1991)419

Vitamins, water soluble

Determination of water-soluble vitamins in blood and plasma by coupled-column liquid chromatography 506(1990)471

Volatile compounds, glycosidically bound

Chromatographic separation and partial identification of glycosidically bound volatile components of fruit 522(1990)255

Volatile organic compounds

Comparison of quarter-hourly on-line dynamic headspace analysis to purge-and-trap analysis of varying volatile organic compounds in drinking water sources 513(1990)47

Adsorption/thermal desorption for the determination of volatile organic compounds in water 537(1991)321

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analysis of volatile organic compounds in estuarine sediments using dynamic headspace and gas chromatography-mass spectrometry 542(1991)413

Continuous automatic monitoring of volatile organic compounds in aqueous streams by a modified purge-and-trap system 549(1991)335

VX

Determination of O-ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) by thermospray liquid chromatography-mass spectrometry 523(1990)151

W**Warfarin**

Determination by high-performance liquid chromatography of the binding properties of charged β -cyclodextrin derivatives with drugs 503(1990)453

Determination of warfarin in drinking water by high-performance liquid chromatography after solid-phase extraction 507(1990)381

Determination of the plasma protein binding of the coumarin anticoagulants phenprocoumon and its metabolites, warfarin and acenocoumarol, by ultrafiltration and high-performance liquid chromatography 529(1990)479

Comparison of a new ovomucoid and a second-generation α_1 -acid glycoprotein-based chiral column for the direct high-performance liquid chromatography resolution of drug enantiomers 545(1991)43

Wax esters

Gas-liquid chromatographic method for the determination of marine wax esters according to the degree of unsaturation 513(1990)327

Whey proteins

Phenotyping of bovine milk proteins by reversed-phase high-performance liquid chromatography 548(1991)361

Wood preservatives

Gas chromatographic determination of polychlorinated dibenzo-*p*-dioxins in wood preservatives 502(1990)160

X**Xanthene dyes**

Analysis of xanthene dyes by reversed-phase high-performance liquid chromatography on a polymeric column followed by characterization with a diode array detector 528(1990)155

Xanthine oxidase

Interrelation between nucleotide degradation and aldehyde formation in red blood cells. Influence of xanthine oxidase on metabolism: an application of nucleotide and aldehyde analyses by high-performance liquid chromatography 507(1990)311

Xanthines

Investigation of the reversed-phase high-performance liquid chromatographic ligand-exchange retention mechanism on a triamine stationary phase 513(1990)145

Determination of purine nucleosides and their bases by high-performance liquid chromatography using co-immobilized enzyme reactors 528(1990)91

Plasma and blood assay of xanthine and hypoxanthine by gas chromatography-mass spectrometry: physiological variations in humans 529(1990)93

Measurement of hypoxanthine and xanthine in late-gestation human amniotic fluid by reversed-phase high-performance liquid chromatography with photodiode-array detection 533(1990)73

Characterization of major carotenoids in water convulvulus (*Ipomoea aquatica*) by open-column, thin-layer and high-performance liquid chromatography 543(1991)147

Xenopsin

High-performance liquid chromatographic determination of peptides in biological fluids by automated pre-column fluorescence derivatization with fluoescamine 548(1991)319

Ximoprofen

Determination of ximoprofen and its metabolites in human urine by high-performance liquid chromatography with ultra-violet absorbance detection 530(1990)377

Xipamide

Rapid determination of xipamide in human plasma and urine by high-performance liquid chromatography 533(1990)275

Xylanases

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

Xylenes

Retention times and heats of adsorption of aromatic compounds on carbon adsorbents 506(1990)335

Sorption isotherms of organic vapours on Tenax 514(1990)279

Systematic errors with the use of internal standard calibration in gas chromatographic headspace analysis 518(1990)1

Blended liquid crystalline stationary phases in capillary gas chromatography 520(1990)85

Determination of monocyclic aromatic hydrocarbons in plant cuticles by gas chromatography-mass spectrometry 541(1991)83

Analytical isotachopheresis in biological monitoring of exposure to industrial chemicals (Review) 545(1991)369

Xyloses

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Determination of xylose oligomers and monosaccharides by anion-exchange chromatography with pulsed amperometric detection 546(1991)289

 β -D-Xylosidase

Separation of the cellulolytic and xylanolytic enzymes of *Clostridium stercorarium* 521(1990)301

D-Xylulose

Selective post-column liquid chromatographic determination of sugars in spent sulphite liquor with two enzymatic electrochemical detectors in parallel 506(1990)423

Y

Ytterbium

Charged surface and mass transfer in dynamic ion exchangers 546(1991)17

Yttrium

Separation of lanthanides and yttrium as anionic complexes by isocratic ion-interaction chromatography 537(1991)277

Z

Zaprinast

Two systems for the automated analysis of drugs in biological fluids using high-performance liquid chromatography 527(1990)67

Analysis of Zaprinast in rat and human plasma by automated solid-phase extraction and reversed-phase high-performance liquid chromatography 527(1990)454

Zeatin

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Zeatin riboside

Determination of zeatin and zeatin riboside in plant tissue by solid-phase extraction and ion-exchange chromatography 504(1990)197

Zeaxanthin

High-performance liquid chromatographic determination of chloroplast pigments with optimized separation of lutein and zeaxanthin 508(1990)232

Resolution of lutein and zeaxanthin using a non-encapped, lightly carbon-loaded C_{18} high-performance liquid chromatographic column 543(1991)137

Zidovudine

Simultaneous quantification of zidovudine and its metabolites in serum and urine by high-performance liquid chromatography using a column-switching technique 525(1990)240

Analysis of 3'-azido-3'-deoxythymidine levels in tissues and milk by isocratic high-performance liquid chromatography 528(1990)371

Simple and rapid assay for zidovudine and zidovudine glucuronide in plasma using high-performance liquid chromatography 530(1990)474

Zidovudine 5'-O-glucuronide

Simultaneous quantification of zidovudine and its metabolites in serum and urine by high-performance liquid chromatography using a column-switching technique 525(1990)240

Zidovudine glucuronide

Simple and rapid assay for zidovudine and zidovudine glucuronide in plasma using high-performance liquid chromatography 530(1990)474

Zinc

Use of metal chelate affinity chromatography for removal of zinc ions from alkaline phosphatase from *Escherichia coli* 522(1990)171

Preconcentration of divalent trace metals on chelating silicas followed by on-line ion chromatography 541(1991)443

Cation analysis of fermentation broth by high-performance liquid chromatography utilizing ion interaction 546(1991)251

Zinc pyrithione

High-performance liquid chromatographic determination of zinc pyrithione in antidandruff preparations based on copper chelate formation 502(1990)379

Zirconium (IV)

Thin-layer chromatographic behaviour and separation of zirconium(IV) and hafnium(IV) on silica gel in mineral acid-hydrogen peroxide media 539(1991)169

Zirconium oxide

Titanium and zirconia: possible new ceramic microparticulates for high-performance liquid chromatography 515(1990)149

Porous zirconia and titania as packing materials for high-performance liquid chromatography 535(1990)111

Zonisamide

Determination of zonisamide (3-sulphamoylmethyl-1,2-benzisoxazole) in plasma at

therapeutic concentrations by high-performance liquid chromatography 534(1990)173

Zopiclone

Identification and quantification in plasma of zopiclone by gas chromatography with nitrogen-phosphorus detection 527(1990)169

PUBLICATION SCHEDULE FOR 1991

Journal of Chromatography and Journal of Chromatography, Biomedical Applications

MONTH	D 1990– M 1991	J	J	A	S	O	N	D
Journal of Chromatography	Vols. 535–545/1	545/2 546/1+2 547/1+2	548/1+2 549/1+2 550/1+2	552/1+2 553/1+2 554/1+2 555/1+2	556/1+2 557/1+2 558/1	558/2 559/1+2		
Cumulative Indexes, Vols. 501–550				551/1+2				
Bibliography Section	560/1	560/2			561/1			561/2
Biomedical Applications	Vols. 562–566	567/1	567/2 568/1	568/2	569/1+2 570/1	570/2	571/1+2	572/1+2

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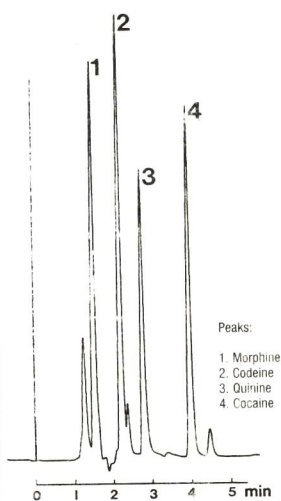
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