

VOL. 651 NOS. 1 + 2 MAY 20, 1994

COMPLETE IN ONE ISSUE

**CUMULATIVE AUTHOR, SUBJECT,
COMPOUND AND SPECIAL ISSUE INDEXES
VOLUMES 601-650**

JOURNAL OF

CHROMATOGRAPHY

INCLUDING ELECTROPHORESIS AND OTHER SEPARATION METHODS

EDITORS

U.A.Th. Brinkman (Amsterdam)
R.W. Giese (Boston, MA)
J.K. Haken (Kensington, N.S.W.)
L.R. Snyder (Orinda, CA)

EDITORS, SYMPOSIUM VOLUMES.

E. Heftmann (Orinda, CA), Z. Deyl (Prague)

EDITORIAL BOARD

D.W. Armstrong (Rolla, MO)
W.A. Aud (Halifax)
P. Boček (Brno)
A.A. Boulton (Saskatoon)
P.W. Carr (Minneapolis, MN)
N.H.C. Cooke (San Ramon, CA)
V.A. Davankov (Moscow)
G.J. de Jong (Weesp)
Z. Deyl (Prague)
S. Dilli (Kensington, N.S.W.)
Z. El Rassi (Stillwater, OK)
H. Engelhardt (Saarbrücken)
F. Erni (Basle)
M.B. Evans (Hatfield)
J.L. Glajch (N. Billerica, MA)
G.A. Guiochon (Knoxville, TN)
P.R. Haddad (Hobart, Tasmania)
I.M. Hais (Hradec Králové)
W.S. Hancock (Palo Alto, CA)
S. Hjertén (Uppsala)
S. Honda (Higashi-Osaka)
Cs. Horváth (New Haven, CT)
J.F.K. Huber (Vienna)
K.-P. Hupe (Waldbrunn)
J. Janák (Brno)
P. Jandera (Pardubice)
B.L. Karger (Boston, MA)
J.J. Kirkland (Newport, DE)
E. sz. Kováts (Lausanne)
K. Macek (Prague)
A.J.P. Martin (Cambridge)
L.W. McLaughlin (Chestnut Hill, MA)
E.D. Morgan (Keele)
J.D. Pearson (Kalamazoo, MI)
H. Poppe (Amsterdam)
F.E. Regnier (West Lafayette, IN)
P.G. Righetti (Milan)
P. Schoenmakers (Amsterdam)
R. Schwarzenbach (Dübendorf)
R.E. Shoup (West Lafayette, IN)
R.P. Singhal (Wichita, KS)
A.M. Siouffi (Marseille)
D.J. Strydom (Boston, MA)
N. Tanaka (Kyoto)
S. Terabe (Hyogo)
K.K. Unger (Mainz)
R. Verpoorte (Leiden)
Gy. Vigh (College Station, TX)
J.T. Watson (East Lansing, MI)
B.D. Westerlund (Uppsala)

EDITORS, BIBLIOGRAPHY SECTION

Z. Deyl (Prague), J. Janák (Brno), V. Schwarz (Prague)

ELSEVIER

Cumul. Index
Vols 601-650
1994

JOURNAL OF CHROMATOGRAPHY

INCLUDING ELECTROPHORESIS AND OTHER SEPARATION METHODS

Scope. The *Journal of Chromatography A* publishes papers on all aspects of **chromatography, electrophoresis** and related methods. Contributions consist mainly of research papers dealing with chromatographic theory, instrumental developments and their applications. In the *Symposium volumes*, which are under separate editorship, proceedings of symposia on chromatography, electrophoresis and related methods are published. *Journal of Chromatography B: Biomedical Applications*—This journal, which is under separate editorship, deals with the following aspects: developments in and applications of chromatographic and electrophoretic techniques related to clinical diagnosis or alterations during medical treatment; screening and profiling of body fluids or tissues related to the analysis of active substances and to metabolic disorders; drug level monitoring and pharmacokinetic studies; clinical toxicology; forensic medicine; veterinary medicine; occupational medicine; results from basic medical research with direct consequences in clinical practice.

Submission of Papers. The preferred medium of submission is on disk with accompanying manuscript (see *Electronic manuscripts* in the Instructions to Authors, which can be obtained from the publisher, Elsevier Science B.V., P.O. Box 330, 1000 AH Amsterdam, Netherlands). Manuscripts (in English; *four* copies are required) should be submitted to: Editorial Office of *Journal of Chromatography A*, P.O. Box 681, 1000 AR Amsterdam, Netherlands, Telefax (+31-20) 5862 304, or to: The Editor of *Journal of Chromatography B: Biomedical Applications*, P.O. Box 681, 1000 AR Amsterdam, Netherlands. Review articles are invited or proposed in writing to the Editors who welcome suggestions for subjects. An outline of the proposed review should first be forwarded to the Editors for preliminary discussion prior to preparation. Submission of an article is understood to imply that the article is original and unpublished and is not being considered for publication elsewhere. For copyright regulations, see below.

Publication information. *Journal of Chromatography A* (ISSN 0021-9673): for 1994 Vols. 652–682 are scheduled for publication. *Journal of Chromatography B: Biomedical Applications* (ISSN 0378-4347): for 1994 Vols. 652–662 are scheduled for publication. Subscription prices for *Journal of Chromatography A*, *Journal of Chromatography B: Biomedical Applications* or a combined subscription are available upon request from the publisher. Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by surface mail except to the following countries where air delivery via SAL is ensured: Argentina, Australia, Brazil, Canada, China, Hong Kong, India, Israel, Japan, Malaysia, Mexico, New Zealand, Pakistan, Singapore, South Africa, South Korea, Taiwan, Thailand, USA. For all other countries airmail rates are available upon request. Claims for missing issues must be made within six months of our publication (mailing) date. Please address all your requests regarding orders and subscription queries to: Elsevier Science B.V., Journal Department, P.O. Box 211, 1000 AE Amsterdam, Netherlands. Tel.: (+31-20) 5803 642; Fax: (+31-20) 5803 598. Customers in the USA and Canada wishing information on this and other Elsevier journals, please contact Journal Information Center, Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010, USA, Tel. (+1-212) 633 3750, Telefax (+1-212) 633 3764.

Abstracts/Contents Lists published in Analytical Abstracts, Biochemical Abstracts, Biological Abstracts, Chemical Abstracts, Chemical Titles, Chromatography Abstracts, Current Awareness in Biological Sciences (CABS), Current Contents/Life Sciences, Current Contents/Physical, Chemical & Earth Sciences, Deep-Sea Research/Part B: Oceanographic Literature Review, Excerpta Medica, Index Medicus, Mass Spectrometry Bulletin, PASCAL-CNRS, Referativnyi Zhurnal, Research Alert and Science Citation Index.

US Mailing Notice. *Journal of Chromatography A* (ISSN 0021-9673) is published weekly (total 52 issues) by Elsevier Science B.V., (Sara Burgerhartstraat 25, P.O. Box 211, 1000 AE Amsterdam, Netherlands). Annual subscription price in the USA US\$ 4994.00 (US\$ price valid in North, Central and South America only) including air speed delivery. Second class postage paid at Jamaica, NY 11431. **USA POSTMASTERS:** Send address changes to *Journal of Chromatography A*, Publications Expediting, Inc., 200 Meacham Avenue, Elmont, NY 11003. Airfreight and mailing in the USA by Publications Expediting.

See inside back cover for Publication Schedule, Information for Authors and information on Advertisements.

© 1994 ELSEVIER SCIENCE B.V. All rights reserved.

0021-9673/94 \$07.00

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Science B.V., Copyright and Permissions Department, P.O. Box 521, 1000 AM Amsterdam, Netherlands.

Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Special regulations for readers in the USA—This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. The fee indicated on the first page of an article in this issue will apply retroactively to all articles published in the journal, regardless of the year of publication. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the materials herein. Because of rapid advances in the medical sciences, the Publisher recommends that independent verification of diagnoses and drug dosages should be made.

Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

Ⓢ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).

Printed in the Netherlands

JOURNAL OF CHROMATOGRAPHY

VOL. 651 (1994)



JOURNAL OF CHROMATOGRAPHY

INCLUDING ELECTROPHORESIS AND OTHER SEPARATION METHODS

EDITORS

U.A.Th. BRINKMAN (Amsterdam), R.W. GIESE (Boston, MA), J.K. HAKEN (Kensington, N.S.W.),
L.R. SNYDER (Orinda, CA)

EDITORS, SYMPOSIUM VOLUMES

E. HEFTMANN (Orinda, CA), Z. DEYL (Prague)

EDITORIAL BOARD

D.W. Armstrong (Rolla, MO), W.A. Aue (Halifax), P. Boček (Brno), A.A. Boulton (Saskatoon), P.W. Carr (Minneapolis, MN), N.H.C. Cooke (San Ramon, CA), V.A. Davankov (Moscow), G.J. de Jong (Weesp), Z. Deyl (Prague), S. Dilli (Kensington, N.S.W.), Z. El Rassi (Stillwater, OK), H. Engelhardt (Saarbrücken), F. Erni (Basle), M.B. Evans (Hatfield), J.L. Glajch (N. Billerica, MA), G.A. Guiochon (Knoxville, TN), P.R. Haddad (Hobart, Tasmania), I.M. Hais (Hradec Králové), W.S. Hancock (Palo Alto, CA), S. Hjertén (Uppsala), S. Honda (Higashi-Osaka), Cs. Horváth (New Haven, CT), J.F.K. Huber (Vienna), K.-P. Hupe (Waldbronn), J. Janák (Brno), P. Jandera (Pardubice), B.L. Karger (Boston, MA), J.J. Kirkland (Newport, DE), E. sz. Kováts (Lausanne), K. Macek (Prague), A.J.P. Martin (Cambridge), L.W. McLaughlin (Chestnut Hill, MA), E.D. Morgan (Keele), J.D. Pearson (Kalamazoo, MI), H. Poppe (Amsterdam), F.E. Regnier (West Lafayette, IN), P.G. Righetti (Milan), P. Schoenmakers (Amsterdam), R. Schwarzenbach (Dübendorf), R.E. Shoup (West Lafayette, IN), R.P. Singhal (Wichita, KS), A.M. Siouffi (Marseille), D.J. Strydom (Boston, MA), N. Tanaka (Kyoto), S. Terabe (Hyogo), K.K. Unger (Mainz), R. Verpoorte (Leiden), Gy. Vigh (College Station, TX), J.T. Watson (East Lansing, MI), B.D. Westerlund (Uppsala)

EDITORS, BIBLIOGRAPHY SECTION

Z. Deyl (Prague), J. Janák (Brno), V. Schwarz (Prague)



ELSEVIER

AMSTERDAM — LONDON — NEW YORK — TOKYO

J. Chromatogr., Vol. 651 (1994)

© 1994 ELSEVIER SCIENCE B.V. All rights reserved.

0021-9673/94/\$07.00

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Science B.V., Copyright and Permissions Department, P.O. Box 521, 1000 AM Amsterdam, Netherlands.

Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Special regulations for readers in the USA – This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. The fee indicated on the first page of an article in this issue will apply retroactively to all articles published in the journal, regardless of the year of publication. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the materials herein. Because of rapid advances in the medical sciences, the Publisher recommends that independent verification of diagnoses and drug dosages should be made.

Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

Ⓜ The paper used in this publication meets the requirements of ANSI/NISO 239.48-1992 (Permanence of Paper).

Printed in the Netherlands

SPECIAL VOLUME

*Cumulative Author, Subject,
Compound and Special Issue Indexes
Volumes 601–650 (1992–1993)*

CONTENTS

Cumulative Author Index, Volumes 601–650	1
Cumulative Subject Index, Volumes 601–650	110
Cumulative Compound Index, Volumes 601–650	242
Special Issue Index, Volumes 601–650	402

ห้องสมุดกรมวิทยาศาสตร์บริการ

๑๑ ส.ค. 2537

AUTHOR INDEX

VOLUMES 601-650

A

- Aarons, L., see Davis, J. D. 621(1993)105
- Abadi, A. H., see Rutledge, D. R. 615(1993)111
- Abbas, A. A. and Shelly, D. C.
Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133
- Abbott, F. S., see Doroudian, A. 619(1993)79
- Abdel-Baky, S. and Giese, R. W.
Capillary electrophoresis washing technique 608(1992)159
- Abdel-Hamid, M.S., see Donnelly, J.R. 642(1993)409
- Abe, S., see Itagaki, T. 620(1993)149
- Abián, J., see Bioque, G. 615(1993)191
- Abián, J., Churchwell, M. I. and Korfmacher, W. A.
High-performance liquid chromatography-thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267
- Abian, J., see Hansen, Jr., E. B. 603(1992)157
- Abidi, S. L., Mounts, T. L. and Rennick, K. A.
Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175
- Abollino, O., see Sarzanini, C. 626(1992)151
- Abollino, O., see Sarzanini, C. 640(1993)127
- Abollino, O., see Sarzanini, C. 640(1993)179
- Abraham, M. H.
Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas-liquid chromatographic data 644(1993)95
- Abraham, M. H., Andonian-Haftvan, J., Hamerton, I., Poole, C. F. and Kollie, T. O.
Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351
- Abraham, M. H. and Walsh, D. P.
Hydrogen bonding. XXIII. Application of the new solvation equation to log V_g values for solutes on carbonaceous adsorbents 627(1992)294
- Abrahamsson, K. and Ekdahl, A.
Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239
- Abrams, G. D., see Hogge, L. R. 623(1992)255
- Abrams, S. R., see Hogge, L. R. 623(1992)255
- Abramson, F. P., see Teffera, Y. 620(1993)89
- Acerbi, D., see Rondelli, I. 612(1993)95
- Aceto, M., see Sarzanini, C. 626(1992)151
- Aceto, M., see Sarzanini, C. 640(1993)127
- Aceto, M., see Sarzanini, C. 640(1993)179
- Aceves, M. and Grimalt, J. O.
Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261
- Achilli, G., Cellerino, G. P., Gamache, P. H. and Melzi d'Eril, G. V.
Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111
- Ackermans, M. T., Ackermans-Loonen, J. C. J. M. and Beckers, J. L.
Determination of propionate in bread using capillary zone electrophoresis 627(1992)273
- Ackermans, M. T., see Beckers, J. L. 629(1993)371
- Ackermans, M. T., Everaerts, F. M. and Beckers, J. L.
Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229
- Ackermans-Loonen, J. C. J. M., see Ackermans, M. T. 627(1992)273
- Acworth, I. N., see Gamache, P. 614(1993)213
- Acworth, I. N., see Gamache, P. 635(1993)143
- Acworth, I. N., see Greaney, M. D. 622(1993)125
- Adamek, V., Liu, X.-C., Zhang, Y. A., Adamkova, K. and Scouten, W. H.
New aliphatic boronate ligands for affinity chromatography 625(1992)91
- Adamkova, K., see Adamek, V. 625(1992)91

- Adamson, N., Riley, P. F. and Reynolds, E. C.
The analysis of multiple phosphoserine-containing casein peptides using capillary zone electrophoresis 646(1993)391
- Aden Abdi, Y., Villén, T., Gustafsson, L. L., Ericsson, Ö. and Sjöqvist, F.
Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples 612(1993)336
- Adjalla, C., see Lambert, D. 608(1992)311
- Adersen, A., see Jäger, A. K. 634(1993)135
- Adusumalli, V. E., see Jacala, A. 614(1993)285
- Advenier, C., see Naline, E. 604(1992)203
- Afeyan, N., see Varady, L. 631(1993)107
- Agarwal, V. K.
High-performance liquid chromatographic methods for the determination of sulfonamides in tissue, milk and eggs (Review) 624(1992)411
- Agra, A. M. and Huang, S.-M.
High-performance liquid chromatographic determination of a potent AII receptor antagonist (DMP 811) in plasma 620(1993)205
- Aguilar, M., Farran, A. and Martínez, M.
Determination of gold(I) and silver(I) cyanide in ores by capillary zone electrophoresis 635(1993)127
- Aguilar, M., see Wirth, H. -J. 646(1993)129
- Aguilar, M. I., Mougos, S., Boublik, J., Rivier, J. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53
- Aguilar, M. I., see Wilce, M. C. J. 632(1993)11
- Ahmad, J., see Mohammad, A. 642(1993)445
- Ahnoff, M., see Witte, D. T. 641(1993)39
- Aiache, J. M., see Lartigue-Mattei, C. 617(1993)140
- Aiello, R., see Tagliaro, F. 638(1993)303
- Aitzetmüller, K., Xin, Y., Werner, G. and Grönheim, M.
High-performance liquid chromatographic investigations of stillingia oil 603(1992)165
- Akama, Y. and Tong, A.
High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolonone chelates 633(1993)129
- Akasaka, K., Ohru, H. and Meguro, H.
Simultaneous determination of hydroperoxides of phosphatidylcholine, cholesterol esters and triacylglycerols by column-switching high-performance liquid chromatography with a post-column detection system 622(1993)153
- Akasaka, K., Ohru, H. and Meguro, H.
Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31
- Akasaka, K., Ohru, H., Meguro, H. and Tamura, M.
Determination of triacylglycerol and cholesterol ester hydroperoxides in human plasma by high-performance liquid chromatography with fluorometric postcolumn detection 617(1993)205
- Akashi, M., see Baba, Y. 632(1993)137
- Akashi, M., see Yashima, E. 603(1992)111
- Åkesson, B., see Lundh, T. 617(1993)191
- Akhlaq, M. S.
Rapid group-type analysis of crude oils using high-performance liquid chromatography and gas chromatography 644(1993)253
- Akimoto, H., see Yokouchi, Y. 642(1993)401
- Akimoto, K., see Ikeda, M. 621(1993)133
- Akiyama, K., see Seki, S. 618(1993)147
- Akiyama, S., see Nakashima, K. 619(1993)1
- Akiyama, S., Nakashima, K. and Yamada, K.
High-performance liquid chromatographic determination of sugars in an infusion and soft drinks using a silica-based 3-morpholinopropyl-bonded stationary phase 626(1992)266
- Akiyama, Y., see Takeda, N. 607(1992)31
- Akkara, J. A., Greenberger, M. and Kaplan, D. L.
New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247
- Al-Lamee, K. G., see Bamford, C. H. 606(1992)19
- Al-Saeed, A., see Farkas, G. 645(1993)67
- Albaigés, J., see Pastor, M. D. 629(1993)329
- Albanese, J. A., see Biemer, T. A. 623(1992)395
- Albeck, H., see Chou, J. Z. 613(1993)359
- Albertini, M., see Candito, M. 617(1993)304
- Alberts, G., see Boomsma, F. 621(1993)82
- Albertsen, A., see Steudel, R. 606(1992)260
- Albrecht, M., see Fraser, P. D. 645(1993)265
- Alcalde, P., see Ventura, R. 647(1993)203
- Alcaraz, J., see Zaromb, S. 643(1993)107
- Alden, P., see Morawski, J. 640(1993)359
- Alden, P. G., see Krol, J. 626(1992)165
- Alebić-Kolbah, T. and Wainer, I. W.
Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289
- Alewood, P. F., Bailey, A. J., Brinkworth, R. I., Fairlie, D. and Jones, A.
Characterisation of TNF- α -related peptides by high-performance liquid chromatography-mass spectrometry and high-performance liquid chromatography-tandem mass spectrometry 646(1993)185
- Alewood, P. F., see Grieve, P. A. 646(1993)175
- Alexander, R., see Fisher, S. J. 642(1993)205
- Alexander IV, J. N. and Quinn, C. J.
Organic acid analysis by ion chromatography-particle beam mass spectrometry 647(1993)95
- Alfageme, J., see Etxeberria, A. 607(1992)227
- Ali, I., see Srivastava, S. K. 635(1993)171
- Al Kabbani, J., see Bergqvist, Y. 615(1993)297
- Allen, D. W., Clench, M. R., Crowson, A. and Leathard, D. A.
Identification by particle-beam liquid chromatography-mass spectrometry of transformation products of the antioxidant Irganox 1330 in food-contact polymers subjected to electron-beam irradiation 629(1993)283
- Allen, J., see Wilson, J. B. 617(1993)37

- Allender, W. J. and Keegan, J.
Chromatographic analysis of *cis*- and *trans*-mevinphos in poisoned wildlife 609(1992)315
- Alloni, A., see Gelfi, C. 608(1992)333
- Alloni, A., see Gelfi, C. 608(1992)343
- Almela, L., Fernández-López, J. A. and López-Roca, J. M.
High-performance liquid chromatography–diode-array detection of photosynthetic pigments 607(1992)215
- Alred, P. A., Tjerneld, F. and Modlin, R. F.
Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205
- Altieri, I., see Pacifici, R. 612(1993)209
- Altieri, I., see Zuccaro, P. 621(1993)257
- Altmayer, P., Büch, U., Büch, H. P. and Larsen, R.
Rapid and sensitive pre-column extraction high-performance liquid chromatographic assay for propofol in biological fluids 612(1993)326
- Altria, K. D.
Determination of salbutamol-related impurities by capillary electrophoresis 634(1993)323
- Altria, K. D.
High-speed determination of drug related impurities by capillary electrophoresis employing commercial instrumentation 636(1993)125
- Altria, K. D.
Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245
- Altria, K. D. and Dave, Y. K.
Peak homogeneity determination and micro-preparative fraction collection by capillary electrophoresis for pharmaceutical analysis 633(1993)221
- Altria, K. D., Harden, R. C., Hart, M., Hevizi, J., Hailey, P. A., Makwana, J. V. and Portsmouth, M. J.
Inter-company cross-validation exercise on capillary electrophoresis. I. Chiral analysis of clenbuterol 641(1993)147
- Altria, K. D., Walsh, A. R. and Smith, N. W.
Validation of a capillary electrophoresis method for the enantiomeric purity testing of fluparoxan 645(1993)193
- Alugupalli, S., see Mielniczuk, Z. 623(1992)115
- Alvarez, J. G. and Ludmir, J.
Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography–reflectance spectrodensitometry 615(1993)142
- Alvarez-Zepeda, A., see Fóti, G. 630(1993)1
- Alvinerie, M., Sutra, J. F., Eeckhoutte, C., Galtier, P., Van 't Klooster, G. A. E. and Van Miert, A. S. J. P. A. M.
Determination of aditoprim and its oxidative metabolites in plasma and microsomal incubation mixtures by high-performance liquid chromatography 612(1993)115
- Amari, G., see Rondelli, I. 612(1993)95
- Amelio, M., Rizzo, R. and Varazini, F.
Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179
- Amey, M., see Reymond, P. 616(1993)221
- Amey, M. D. H. and Bridle, D. A.
Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323
- Amigo Moran, M. J., see Carabias Martínez, R. 607(1992)37
- Ammann, M., see Futschik, K. 644(1993)389
- Amparo Blázquez, M., see Tomás-Barberán, F. A. 634(1993)41
- Andersen, C., Balmér, K. and Lagerström, P.-O.
Enantioselective assay of warfarin in blood plasma by liquid chromatography on Chiralcel OC 615(1993)159
- Anderson, D. J., see McConnell, J. P. 615(1993)67
- Anderson, K. E., see Woodcock, E. A. 619(1993)121
- Anderson, K. L., see Tyczkowska, K. L. 614(1993)123
- Anderson, Jr., J. M., see Nair, L. M. 640(1993)41
- Anderson, Jr., J. M., see Saari-Nordhaus, R. 602(1992)15
- Anderson, Jr., J. M., see Saari-Nordhaus, R. 602(1992)127
- Andersson, B., see Kussak, A. 616(1993)235
- Andersson, B., see Sunesson, A.-L. 623(1992)93
- Andersson, K., see Kussak, A. 616(1993)235
- Andersson, K., see Lindahl, R. 643(1993)35
- Andersson, K., see Wingren, C. 603(1992)73
- Andersson, L., see Chaga, G. 627(1992)163
- Andersson, L., see Hansen, P. 627(1992)125
- Andersson, L. and Sulkowski, E.
Evaluation of the interaction of protein α -amino groups with M(II) by immobilized metal ion affinity chromatography 604(1992)13
- Andersson, P. E., Demirbükler, M. and Blomberg, L. G.
Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography–mass spectrometry 641(1993)347
- Andersson, S.
Determination of coenzyme Q by non-aqueous reversed-phase liquid chromatography 606(1992)272
- Andersson, T., Lagerström, P.-O., Miners, J. O., Veronese, M. E., Weidolf, L. and Birkett, D. J.
High-performance liquid chromatographic assay for human liver microsomal omeprazole metabolism 619(1993)291
- Ando, Y., see Takagi, T. 629(1993)385
- Andonian-Haftvan, J., see Abraham, M. H. 646(1993)351
- André, P., see Morin, P. 628(1993)161
- Andresen, A. T., Rasmussen, K. E. and Rugstad, H. E.
Automated determination of free phenytoin in human plasma with on-line equilibrium dialysis and column-switching high-performance liquid chromatography 621(1993)189
- Andrew, M., Burholt, I. M. V., Kernoghan, N. J., Lynch, T. P., Mackison, R., Mealor, D., Price, J. A. and Schofield, P.
Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion–ion chromatography technique 640(1993)111
- Andrews, D., see Cheng, Y.-F. 608(1992)109
- Andrzejewski, D., see Weisz, A. 607(1992)47
- Ang, S.-G., see Lai, Y.-H. 606(1992)251
- Angeletti, M., see Fioretti, E. 617(1993)308
- Anigbogu, V. C., see Husain, N. 635(1993)211
- Antolin, A., see Del Nozal, M. J. 607(1992)191

- Antón Fos, G. M., see Soler Roca, R. M. 607(1992)91
- Antus, S., Bauer, R., Gottsegen, Á., Lotter, H., Seligmann, O. and Wagner, H.
Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133
- Anzion, R. B. M., see Sessink, P. J. M. 616(1993)333
- Aoki, F., see Ôi, N. 631(1993)177
- Aoki, I., see Okuda, T. 612(1993)263
- Aoyama, R. G., Kitts, D. D., Burt, H. M. and McErlane, K. M.
Development of an assay for penicillin G in chinook salmon muscle tissue 626(1992)271
- Aoyanagi, N., see Takagi, T. 629(1993)385
- Apazidou, K. K., see Bakola-Christianopoulou, M. N. 645(1993)293
- Apostolova, M., Bontchev, P. R., Nachev, C. and Sirakova, I.
Apometallothionein in rat liver 620(1993)191
- Appel, J. R., see Büttner, K. 625(1992)191
- Appel, S., see Mathôt, R. A. A. 620(1993)113
- Arai, A., see Guttman, A. 608(1992)175
- Araki, H., see Yoshioka, M. 603(1992)223
- Araki, T., see Hosoya, K. 625(1992)121
- Araki, T., see Tanaka, M. 648(1993)469
- Arbutina, Ž. J., see Janjić, T. J. 609(1992)419
- Archer, J., see Jinno, K. 648(1993)71
- Arin, M. J., see Resines, J. A. 607(1992)199
- Arita, T., see Nishikata, M. 612(1993)239
- Arm, H., see Straub, R. 623(1992)23
- Armstrong, D. W., see Feng, Z. 609(1992)187
- Armstrong, D. W., see Lee, S. H. 603(1992)83
- Armstrong, D. W., see Pawlowska, M. 641(1993)257
- Armstrong, D. W., see Reid, III, G. L. 633(1993)135
- Armstrong, D. W., see Reid, III, G. L. 633(1993)143
- Armstrong, D. W., see Zukowski, J. 623(1992)33
- Armstrong, D. W., see Zukowski, J. 629(1993)169
- Aronson, A. L., see Tyczkowska, K. L. 614(1993)123
- Arpino, P. J., see Sadoun, F. 647(1993)351
- Arrigoni Martelli, E., see Bruno, G. 619(1993)167
- Arruda, A. C., Heinzen, V. E. F. and Yunes, R. A.
Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251
- Arthur, C. L., see Hawthorne, S. B. 603(1992)185
- Asakawa, N., see Mano, N. 603(1992)105
- Asakawa, N., see Mano, N. 623(1992)221
- Asakura, M., Nagakura, A., Tarui, S. and Matsumura, R.
Simultaneous determination of the enantiomers of pimobendan and its main metabolite in rat plasma by high-performance liquid chromatography 614(1993)135
- Asakura, T., see Onodera, S. 642(1993)185
- Asami, M., see Takasaki, W. 613(1993)67
- Asano, K., see Yamazaki, T. 615(1993)180
- Ascalone, V., Guinebault, P. and Rouhouse, A.
Determination of mizolastine, a new antihistaminic drug, in human plasma by liquid-liquid extraction, solid-phase extraction and column-switching techniques in combination with high-performance liquid chromatography 619(1993)275
- Ascoli, F., see Fioretti, E. 617(1993)308
- Ashbolt, N. J., see Nichols, P. D. 643(1993)189
- Asplund, L., see Haglund, P. 634(1993)79
- Asral, N., see Biemer, T. A. 623(1992)395
- Asrar, J., see Vilenchik, L. Z. 648(1993)9
- Astier, A.
Chromatographic determination of volatile solvents and their metabolites in urine for monitoring occupational exposure (Review) 643(1993)389
- Atamas, S. P. and Troitsky, G. V.
Isotachophoretic separation of polyols in boric acid solutions 644(1993)407
- Athanasiadou, M., see Haglund, P. 634(1993)79
- Atkinson, D. A., Hill, H. H. and Shultz, T. D.
Quantification of mammalian lignans in biological fluids using gas chromatography with ion mobility detection 617(1993)173
- Attard Barbini, D., see Di Muccio, A. 643(1993)363
- Attila, I., see Özden, S. 609(1992)402
- Atwood, E. S., see Driscoll, J. N. 642(1993)435
- Atwood, S. E.
Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213
- Au, J. L. -S., see Yeh, T.-K. 622(1993)255
- Aucoin, D. P., see Seay, S. S. 620(1993)281
- Aue, W. A. and Sun, X.
Quenching in the flame photometric detector 641(1993)291
- Aue, W. A. and Sun, X.-Y.
Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151
- Aue, W. A., Sun, X.-Y. and Millier, B.
Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73
- Auriola, S., see Tóth, Z. A. 630(1993)423
- Ausili, A., see Di Muccio, A. 643(1993)363
- Ausina, V., see Garcia-Barceló, M. 617(1993)299
- Avachat, M. K., see Chaudhary, R. S. 614(1993)261
- Avgerinos, A., Karidas, T. and Malamataris, S.
Extractionless high-performance liquid chromatographic method for the determination of diclofenac in human plasma and urine 619(1993)324
- Awad, J. A., Morrow, J. D. and Roberts II, L. J.
Simplification of the mass spectrometric assay for the major urinary metabolite of prostaglandin D₂ 617(1993)124
- Axelson, J. E., see Doroudian, A. 619(1993)79
- Ayotte, R. C., see Vilenchik, L. Z. 648(1993)9
- Ayyangar, N. R., see Tambe, A. S. 628(1993)143
- Azzi, A., see Jin, J.-Z. 614(1993)159

B

- Baalouamer, A., see Chanegriha, N. 633(1993)163
- Baars, A. M., see De Groot, A. N. J. A. 613(1993)158
- Baba, Y.
Prediction of the behaviour of oligonucleotides in high-performance liquid chromatography and capillary electrophoresis (Review) 618(1993)41
- Baba, Y., see Kura, G. 628(1993)241
- Baba, Y., Tshako, M., Sawa, T. and Akashi, M.
Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137
- Babalola, C. P., Bolaji, O. O., Dixon, P. A. F. and Ogunbona, F. A.
Column liquid chromatographic analysis of quinine in human plasma, saliva and urine 616(1993)151
- Bachert, E. L. and Fung, H.-L.
High-performance liquid chromatographic method for stability and pharmacokinetic studies of nicorandil 619(1993)336
- Bächmann, K., Boden, J. and Haumann, I.
Indirect fluorimetric detection of alkali and alkaline earth metal ions in capillary zone electrophoresis with cerium (III) as carrier electrolyte 626(1992)259
- Bächmann, K., see Groh, T. 646(1993)405
- Bächmann, K., Haag, I., Prokop, T., Röder, A. and Wagner, P.
Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181
- Bachmayer, S., see Futschik, K. 644(1993)389
- Bacic, A., see Lau, E. 637(1993)100
- Bacosi, A., see Pacifici, R. 612(1993)209
- Baertschi, S. W., see Olsen, B. A. 648(1993)165
- Baeyens, W., Weiss, G., Van Der Weken, G., Van Den Bossche, W. and Dewaele, C.
Analysis of pilocarpine and its *trans* epimer, isopilocarpine, by capillary electrophoresis 638(1993)319
- Baeyens, W., see Xianren, Q. 640(1993)3
- Bagchi, D., see Cordis, G. A. 632(1993)97
- Bagheri, H., Brouwer, E. R., Ghijssen, R. T. and Brinkman, U. A. T.
On-line low-level screening of polar pesticides in drinking and surface waters by liquid chromatography-thermospray mass spectrometry 647(1993)121
- Bailey, A. J., see Alewood, P. F. 646(1993)185
- Bailey, B. A., see Greaney, M. D. 622(1993)125
- Bailey, M. R., see Janček, M. 619(1993)63
- Bailey Jr., J. E., see Davis, V. M. 635(1993)160
- Baillet, A., Corbeau, L., Rafidison, P. and Ferrier, D.
Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag^+ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251
- Baillet, A., see Pianetti, G. A. 630(1993)371
- Baillet, A., Pianetti, G. A., Taverna, M., Mahuzier, G. and Bayloq-Ferrier, D.
Fosfomicin determination in serum by capillary zone electrophoresis with indirect ultraviolet detection 616(1993)311
- Baines, P., see Chappell, I. 603(1992)49
- Baiocchi, C., see Da Col, R. 633(1993)119
- Baiocchi, C., see Da Col, R. 647(1993)289
- Baiocchi, C., Marengo, E., Saini, G., Roggero, M. A. and Giacosa, D.
Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259
- Baker, A. G., see Wenzel, T. J. 637(1993)187
- Baker, G. B., see Coutts, R. T. 615(1993)265
- Baker, S., see Durhan, E. 629(1993)67
- Bakes, D. M., Turner, N. D., Gordon, B. H., Hiley, M. P., Walther, B. and Lucas, C.
Method for the analysis of S9788, a drug to reverse resistance to anticancer agents, in animal plasma and human plasma and serum by high-performance liquid chromatography with ultraviolet detection 615(1993)117
- Bakola-Christianopoulou, M. N., Papageorgiou, V. P. and Apazidou, K. K.
Gas chromatographic-mass spectrometric study of the reductive silylation of hydroxyquinones 645(1993)293
- Bal, F., see Josić, D. 632(1993)1
- Balansard, G., see Crespin, F. 644(1993)404
- Balaraman, K., see George, N. 604(1992)285
- Bald, E. and Sypniewski, S.
Reversed-phase high-performance liquid chromatographic determination of sulphide in an aqueous matrix using 2-iodo-1-methylpyridinium chloride as a precolumn ultraviolet derivatization reagent 641(1993)184
- Balinova, A.
Solid-phase extraction followed by high-performance liquid chromatographic analysis for monitoring herbicides in drinking water 643(1993)203
- Ballantine, Jr., D. S.
Quantitative structure-retention relationship approach to prediction of linear solvation energy relationship coefficients. I. H-Bond acceptor capability of gas chromatography stationary phases in McReynolds data set 628(1993)247
- Ballesteros, E., Gallego, M. and Valcárcel, M.
Automatic determination of N-methylcarbamate pesticides by using a liquid-liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169
- Ballèvre, O., see Stämpfli, A. A. 617(1993)197
- Balmér, K., see Andersen, C. 615(1993)159
- Balmér, K., Lagerström, P.-O., Larsson, S. and Persson, B.-A.
Direct chiral separation of almokalant on Chiralcel OD and Chiralpak AD for liquid chromatographic assay of biological samples 631(1993)191
- Baltassat, P., see Guichard, J. 612(1993)269
- Bamford, C. H., Al-Lamec, K. G., Purbrick, M. D. and Wear, T. J.
Studies of a novel membrane for affinity separations. I. Functionalisation and protein coupling 606(1992)19
- Bammel, B. P., see O'Shea, T. J. 608(1992)189

- Banditt, P., see Martens, J. 620(1993)169
- Bando, H., see Wada, K. 644(1993)43
- Bandow, H., see Yokouchi, Y. 642(1993)401
- Bank, S., see Zhu, M. 628(1993)37
- Bankova, V., see Christov, R. 623(1992)182
- Bankova, V., Christov, R., Stoev, G. and Popov, S.
Determination of phenolics from propolis by capillary gas chromatography 607(1992)150
- Bao, J. and Regnier, F. E.
Ultramicro enzyme assays in a capillary electrophoretic system 608(1992)217
- Baranski, A. S., see Lu, W. 640(1993)433
- Barbaro, A. M., see Biagi, G. L. 625(1992)392
- Barbieri, R., see Duro, G. 618(1993)95
- Barbina, M. T., see De Paoli, M. 626(1992)145
- Barceló, D.
Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117
- Barceló, D., see Chiron, S. 645(1993)125
- Barceló, D., see Durand, G. 603(1992)175
- Barceló, D., see Durand, G. 607(1992)319
- Barceló, D., Durand, G. and Vreeken, R. J.
Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271
- Barceló, D., see Pastor, M. D. 629(1993)329
- Bárcena, J. A., see Martínez-Lara, E. 609(1992)141
- Barker, G., see Sun, P. 648(1993)475
- Barker, S. A., Long, A. R. and Hines II, M. E.
Disruption and fractionation of biological materials by matrix solid-phase dispersion 629(1993)23
- Barker, S. A. and Walker, C. C.
Chromatographic methods for tetracycline analysis in foods (Review) 624(1992)195
- Barker, S. A., see Walker, C. C. 642(1993)225
- Barkley, D. J., Bennett, L. A., Charbonneau, J. R. and Pokrajac, L. A.
Applications of high-performance ion chromatography in the mineral processing industry 606(1992)195
- Barkley, D. J., Charbonneau, J. R., Chenier, M. J., Glasgow, C. C. and Graham, J. A.
Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371
- Barnes, C. S., Upadrashta, B., Pacheco, F. and Portnoy, J.
Enhanced sensitivity of immunoblotting with peroxidase-conjugated antibodies using an adsorbed substrate method 613(1993)281
- Barrefors, G. and Petersson, G.
Assessment of ambient volatile hydrocarbons from tobacco smoke and from vehicle emissions 643(1993)71
- Barreto, V., see Rabin, S. 640(1993)97
- Barron, D., see Lübke, M. 646(1993)307
- Barry, E. F., see Conte, E. D. 644(1993)349
- Barth, D., see Fuchs, G. 623(1992)329
- Bartholmes, P., see Kaufmann, M. 639(1993)33
- Bartig, D. and Klink, F.
Determination of the unusual amino acid hypusine at the lower picomole level by derivatization with 4-dimethylaminoazobenzene-4'-sulphonyl chloride and reversed-phase high-performance or medium-pressure liquid chromatography 606(1992)43
- Bartle, K. D., see Janda, V. 642(1993)283
- Bartmann, M., see Bubser, M. 615(1993)339
- Bartunik, H. D., see Jacob, L. R. 625(1992)47
- Bartunik, L. J., see Jacob, L. R. 625(1992)47
- Barua, A. B., Kostic, D. and Olson, J. A.
New simplified procedures for the extraction and simultaneous high-performance liquid chromatographic analysis of retinol, tocopherols and carotenoids in human serum 617(1993)257
- Barzago, M. M., see Bortolotti, A. 617(1993)313
- Basak, A., Yuan, X. W., Harris, R., Seidah, N. G. and Chrétien, M.
Synthesis of the segment (11–23) located in the first tandem repeat of plasma kallikrein: comparative binding studies of this and another segment (328–343) to high-molecular-mass kininogen 615(1993)251
- Basch, J. J., see Strange, E. D. 624(1992)81
- Baškevičiūtė, B., see Žutautas, V. 606(1992)55
- Bastide, M., see Lartigue-Mattei, C. 617(1993)140
- Batista-Viera, F., see Brena, B. M. 604(1992)109
- Batista-Viera, F., see Franco-Fraguas, L. 604(1992)103
- Bauer, J. F., Krogh, S. K., Chang, Z. L. and Wong, C. F.
Determination of minor impurities in terazosin hydrochloride by high-performance liquid chromatography 648(1993)175
- Bauer, R., see Antus, S. 603(1992)133
- Baumann, P., see Reymond, P. 616(1993)221
- Baumann, R. A., see Liem, A. K. D. 624(1992)317
- Baumann, R. A., see Van der Hoff, G. R. 644(1993)367
- Baumeister, K., see Weinmann, W. 628(1993)111
- Baunc, B., see Fernandez, C. 617(1993)271
- Bay, S., see Harke, H. R. 608(1992)143
- Bayer, E., see Gaus, H.-J. 635(1993)319
- Bayer, E., see Lohmiller, K. 634(1993)65
- Baylocq-Ferrier, D., see Baillet, A. 616(1993)311
- Baylocq-Ferrier, D., see Pianetti, G. A. 630(1993)371
- Bayona, J. M., see Dachs, J. 636(1993)277
- Bayona, J. M., see Fernandez, P. 625(1992)141
- Beach, A. C., see Spencer, G. G. 612(1993)295
- Bean, K., see Hopfgartner, G. 647(1993)51
- Bean, R. M., see Harvey, S. D. 630(1993)167
- Beattie, J. H., see Richards, M. P. 648(1993)459
- Beattie, J. H., Richards, M. P. and Self, R.
Separation of metallothionein isoforms by capillary zone electrophoresis 632(1993)127
- Beattie, K. A., see Poon, G. K. 628(1993)215
- Beaudouin, C., Haurat, G., Fraisse, L., Soupe, J. and Renaud, B.
Assay of phenylethanolamine N-methyltransferase activity using high-performance liquid chromatography with ultraviolet absorbance detection 613(1993)51
- Beaudreau, C. A., see Rutledge, D. R. 615(1993)111
- Beaumont, G. L., see Evans, K. P. 636(1993)153
- Becker, H.-D., see Cichy, M. A. 613(1993)15

- Becker-Scharfenkamp, U. and Blaschke, G.
Evaluation of the stereoselective metabolism of the chiral analgesic drug etodolac by high-performance liquid chromatography 621(1993)199
- Beckers, J. L.
Isotachophoresis superimposed on capillary zone electrophoresis 641(1993)363
- Beckers, J. L., see Ackermans, M. T. 606(1992)229
- Beckers, J. L., see Ackermans, M. T. 627(1992)273
- Beckers, J. L. and Ackermans, M. T.
Effect of sample stacking on resolution, calibration graphs and pH in capillary zone electrophoresis 629(1993)371
- Beckett, R., see Murphy, D. M. 642(1993)459
- Beeby, A., see Bishop, S. M. 646(1993)345
- Beeson, M. D., see Camacho-Torrallba, P. L. 646(1993)259
- Beeson, M. D., see Farkas, G. 645(1993)67
- Beeson, M. D. and Vigh, G.
Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197
- Begum, T., see Rathore, H. S. 643(1993)271
- Begum, T., see Rathore, H. S. 643(1993)321
- Begutter, H., see Pachinger, A. 620(1993)55
- Beijnen, J. H., see Burger, D. M. 622(1993)235
- Beijnen, J. H., see Kaijser, G. P. 614(1993)253
- Beijnen, J. H., Rosing, H., Ten Bokkel Huinink, W. W. and Pinedo, H. M.
High-performance liquid chromatographic analysis of the antitumour drug camptothecin and its lactone ring-opened form in rat plasma 617(1993)111
- Beijnen, J. H., see Schellens, J. H. M. 615(1993)309
- Beijnen, J. H., see Van Gijn, R. 614(1993)299
- Beijnen, J. H., see Wafelman, A. R. 622(1993)71
- Beijnen, J. H., see Willey, T. A. 621(1993)231
- Beil, A., see Rauwald, H. W. 639(1993)359
- Beirinckx, P., see Roets, E. 630(1993)159
- Bekersky, I., see Hanson, G. D. 622(1993)61
- Bekos, E. J., see Willey, T. A. 621(1993)231
- Belal, F. F., see Metwally, M. E.-S. 623(1992)75
- Belda, F., see Garcia-Barceló, M. 617(1993)299
- Belenkii, B. G., Gankina, E. S., Zgonnik, V. N., Malchova, I. I. and Melenevskaya, E. U.
Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355
- Belenkii, B. G., Podkladenko, A. M., Kurenbin, O. I., Mal'tsev, V. G., Nasledov, D. G. and Trushin, S. A.
Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1
- Belew, M., see Zhang, Z. 604(1992)143
- Belfield, K. D., Hofmeister, T. S. and Seo, J.
Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497
- Bell, R. G. and Newman, K. L.
Carbohydrate analysis of fermentation broth by high-performance liquid chromatography utilizing solid-phase extraction 632(1993)87
- Belleville, F., see Straczek, J. 620(1993)1
- Bello, M. S., Chiari, M., Nesi, M., Righetti, P. G. and Saracchi, M.
Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323
- Bello, M. S. and Righetti, P. G.
Unsteady heat transfer in capillary zone electrophoresis. I. A mathematical model 606(1992)95
- Bello, M. S. and Righetti, P. G.
Unsteady heat transfer in capillary zone electrophoresis. II. Computer simulations 606(1992)103
- Belloq, J., see Budzinski, H. 627(1992)227
- Bellot, J. C. and Condoret, J. S.
Theoretical study of the ion-exchange preparative chromatography of a two-protein mixture 635(1993)1
- Belpaire, F. M., see Laethem, M. E. 621(1993)225
- Belpaire, F. M., see Rosseel, M. T. 615(1993)154
- Belsner, K., Pfeifer, M. and Wilfert, B.
Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123
- Belvito, M. L., see Fóti, G. 630(1993)1
- Bemgård, A., Colmsjö, A. and Lundmark, B.-O.
Gas chromatographic analysis of high-molecular-mass polycyclic aromatic hydrocarbons. II. Polycyclic aromatic hydrocarbons with relative molecular masses exceeding 328 630(1993)287
- Bemgård, A., see Janák, K. 637(1993)213
- Bemgård, A. K., see Janák, K. 625(1992)311
- Benedek, K.
Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91
- Benedek, K., see Rosenfeld, R. 632(1993)29
- Benedek, K., Várkonyi, A., Hughes, B., Zabel, K. and Kauvar, L. M.
"Paralogs", sorbent families for protein separations 627(1992)51
- Benfenati, E., Natangelo, M., Pallucca, E., Tridico, R., Borghetti, E. and Lualdi, G.
Specific gas chromatography-mass spectrometry analytical method for the determination of cyhexatin in animal feed 605(1992)129
- Benhayoun, S., see Lambert, D. 608(1992)311
- Benincasa, M. A., see Giddings, J. C. 627(1992)23
- Benincori, T., see Caccamese, S. 623(1992)159
- Benkő, S. M., see Ürmös, I. 617(1993)168
- Bennett, L. A., see Barkley, D. J. 606(1992)195
- Benowitz, N. L., see Jacob III, P. 619(1993)49
- Benraad, T. J., see Van Hoof, H. J. C. 621(1993)33
- Benson, L. M., see Tomlinson, A. J. 621(1993)239
- Benvenuti, S., see Vampa, G. 604(1992)261
- Berardini, M. D., see Hartley, J. A. 618(1993)277
- Berek, D., see Mislovičová, D. 646(1993)411

- Berezkin, V. G.
 Analysis of substances in the gaseous phase
 (Comprehensive Analytical Chemistry, Vol. XXVIII) (by
 E. Smolková-Keulemansová and L. Feltl) 628(1993)170
- Berge, R.K., see Demoz, A. 635(1993)251
- Berger, J. A., see Lartigue-Mattei, C. 617(1993)140
- Berger, M., see Polverelli, M. 613(1993)257
- Bergeron, R., see Miller, L. 648(1993)381
- Berggren Palme, I., see Bergqvist, Y. 615(1993)297
- Bergholdt, A., Overgaard, J., Colding, A. and Frederiksen, R.
 B.
 Separation of D-galactonic and D-gluconic acids by
 capillary zone electrophoresis 644(1993)412
- Bergman, Å., see Haglund, P. 634(1993)79
- Bergqvist, Y., Al Kabbani, J., Kryšén, B., Berggren Palme, I.
 and Rombo, L.
 High-performance liquid chromatographic method for the
 simultaneous determination of mefloquine and its
 carboxylic metabolite in 100- μ l capillary blood samples
 dried on paper 615(1993)297
- Bergqvist, Y., Kabbani, J. A., Pettersson, C. and Huynh,
 N.-H.
 Enantioselective high-performance liquid
 chromatographic determination of (*SR*)- and (*RS*)-
 mefloquine in plasma using N-benzyloxycarbonyl-glycyl-
 L-proline as chiral counter ion 620(1993)217
- Bergström, E. T., see Williams, S. J. 636(1993)39
- Berhow, M., see Ohta, H. 639(1993)295
- Bermejo, E., see Chicharro, M. 622(1993)103
- Bernal, J. L., see Del Nozal, M. J. 607(1992)183
- Bernal, J. L., see Del Nozal, M. J. 607(1992)191
- Bernal, J. L., Del Nozal, M. J., García Buj, G. A. and Martín
 Juárez, J.
 Use of methyl and ethyl acetate as organic modifiers in
 reversed-phase high-performance liquid chromatography.
 Application to impurity control in bulk drug steroids
 607(1992)175
- Bernal, J. L., Del Nozal, M. J. and Jiménez, J. J.
 Some observations on clean-up procedures using
 sulphuric acid and Florisil 607(1992)303
- Berrueta, L. A., Gallo, B. and Vicente, F.
 Analysis of oxazepam in urine using solid-phase
 extraction and high-performance liquid chromatography
 with fluorescence detection by post-column
 derivatization 616(1993)344
- Berry, D. L., see Zoutendam, P. H. 631(1993)221
- Berry, M. J. and Pierce, J. J.
 Stability of immunoabsorbents comprising antibody
 fragments. Comparison of Fv fragments and single-chain
 Fv fragments 629(1993)161
- Berthelot, P., see Vaccher, C. 645(1993)95
- Berthod, A., see Lee, S. H. 603(1992)83
- Berthou, F. and Dréano, Y.
 High-performance liquid chromatographic analysis of
 tamoxifen, toremifene and their major human
 metabolites 616(1993)117
- Berthou, F., see Lucas, D. 622(1993)79
- Bertrand, M. J., see Gagné, J. P. 647(1993)13
- Bertrand, M. J., see Gagné, J. P. 647(1993)21
- Bertrand, O., see Krowiarski, Y. 633(1993)273
- Bertschinger, H., see Stanley, S. M. R. 614(1993)77
- Bessard, G., see Jourdil, N. 613(1993)59
- Besserer, K., see Franzelius, C. 613(1993)162
- Bester, K. and Hühnerfuss, H.
 Potential variability problems with the alkali flame
 ionization detector used in gas chromatography
 639(1993)363
- Bestmann, H. J., see Tsikas, D. 622(1993)1
- Bettero, A., see Gazzani, G. 609(1992)391
- Betto, P., see Moretti, G. 616(1993)291
- Betts, T. J.
 Assessment of the polarity of three liquid crystals used as
 gas chromatographic stationary phases 605(1992)276
- Betts, T. J.
 Use of three molecularly toroid phases for the gas
 chromatography of some volatile oil constituents, and
 comparison with liquid crystal phases 606(1992)281
- Betts, T. J.
 Possible value for the gas chromatographic analysis of
 essential oils of some unusual phase commercial
 capillaries 626(1992)294
- Betts, T. J.
 Two-solute method for indicating polarity changes of
 conventional and novel gas chromatographic stationary
 phases with temperature increase 628(1993)138
- Betts, T. J.
 Structurally informative response patterns of some
 monoterpenoids found in volatile oils to gas
 chromatography on two commercial dipentylated
 cyclodextrin phases 639(1993)366
- Betts, T. J.
 Capability of a carbon support to improve the gas
 chromatographic performance of a liquid crystal phase in
 a packed column for some volatile oil constituents
 641(1993)189
- Betz, W. R., see O'Doherty, S. J. 630(1993)265
- Bevan, C. D., Mutton, I. M. and Pipe, A. J.
 Resolution of diastereomeric phosphoramidate bridged
 unnatural oligonucleotides by micellar electrokinetic
 chromatography 636(1993)113
- Bevers, M. M., see Boomsma, F. 621(1993)82
- Bhat, R., see Wielbo, D. 615(1993)164
- Bhikhabhai, R., Carlsson, T., Unge, T., Lövgren, S. and
 Strandberg, B.
 Increased yield of homogeneous HIV-1 reverse
 transcriptase (p66/p51) using a slow purification
 approach 639(1993)67
- Bhikhabhai, R., Joelson, T., Unge, T., Strandberg, B.,
 Carlsson, T. and Lövgren, S.
 Purification, characterization and crystallization of
 recombinant HIV-1 reverse transcriptase 604(1992)157
- Bi, H., see Li, F. 622(1993)187
- Biagi, G. L., Barbaro, A. M., Sapone, A. and Recanatini, M.
 Thin-layer chromatographic study of the lipophilicity of
 triazine herbicides. Influence of different organic
 modifiers 625(1992)392
- Bianchi, A. P. and Varney, M. S.
 Sampling and analysis of volatile organic compounds in
 estuarine air by gas chromatography and mass
 spectrometry 643(1992)11
- Biancone, L., see Silvestro, L. 647(1993)261

- Bicchi, C., Frattini, C., Pellegrino, G., Rubiolo, P., Raverdino, V. and Tsoupras, G.
Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305
- Biedermann, K., see Pedersen, J. 645(1993)353
- Bielejewska, A., see Sybilska, D. 625(1992)349
- Biely, P., see Markovič, O. 603(1992)243
- Biemer, T. A., Asral, N. and Albanese, J. A.
Simultaneous, stability-indicating capillary gas chromatographic assay for benzocaine and the two principal benzyl esters of Balsam Peru formulated in a topical ointment 623(1992)395
- Bier, M.
Advances in electrophoresis, Vol. 5 (edited by A. Chrambach, M. J. Dunn and B. J. Radola) (Book Review) 629(1993)401
- Bier, M., see Levine, M.L. 607(1992)113
- Bier, M. and Long, T.
Recycling isoelectric focusing: use of simple buffers 604(1992)73
- Biersack, H., see Boege, F. 625(1992)67
- Bietz, J. A. and Simpson, D. G.
Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53
- Biggs, W. R., see Fetzer, J. C. 642(1993)319
- Biggs, W. R., see Jinno, K. 648(1993)71
- Bignami, S., see Davi, M. L. 644(1993)345
- Bignami, S., Davi, M. L., Milan, C., Moretti, M. and Navarra, F.
Evaluation of ion-exchange chromatography for nitrate determination in wastewaters 644(1993)341
- Bihoreau, N., Layet, S., Fontaine-Aupart, M. P. and Paolantonacci, P.
Application of a new statistical approach to optimize the immunopurification of antihemophilia A factor 612(1993)49
- Bihoreau, N., see Vincentelli, R. 641(1993)383
- Billot, P. and Pitard, B.
Taguchi design experiments for optimizing the gas chromatographic analysis of residual solvents in bulk pharmaceuticals 623(1992)305
- Bioque, G., Abián, J., Bulbena, O., Roselló-Catafau, J. and Gelpí, E.
Metabolism of N-phenyllinoleamide by rat liver 615(1993)191
- Bioque, G., see Hotter, G. 607(1992)239
- Birkenmeier, G., see Otto, A. 644(1993)25
- Birkenmeier, G., see Walter, H. 641(1993)279
- Birkett, D. J., see Andersson, T. 619(1993)291
- Birkett, D. J., see Tassaneeyakul, W. 616(1993)73
- Bishop, S. M., Khoo, B. J., MacRobert, A. J., Simpson, M. S. C., Phillips, D. and Beeby, A.
Characterisation of the photochemotherapeutic agent disulphonated aluminium phthalocyanine and its high-performance liquid chromatographic separated components 646(1993)345
- Bissell, M. G., see Koh, E. V. 633(1993)245
- Biswas, S., see Tambe, A. S. 628(1993)143
- Bitsch, F., Ma, W., Macdonald, F., Nieder, M. and Shackleton, C. H. L.
Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography-electrospray mass spectrometry 615(1993)273
- Bjergegaard, C., Michaelsen, S. and Sørensen, H.
Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403
- Black, R. M., Clarke, R. J., Cooper, D. B., Read, R. W. and Utley, D.
Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography-mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71
- Bladier, D., see Caron, M. 646(1993)327
- Blain, R. W., see Szuna, A. J. 616(1993)297
- Blain, R. W., see Szuna, A. J. 620(1993)211
- Blanch, G. P., Tabera, J., Herraiz, M. and Reglero, G.
Preconcentration of volatile components of foods: optimization of the steam distillation-solvent extraction at normal pressure 628(1993)261
- Blanchflower, W. J., see Hewitt, S. A. 639(1993)185
- Blanco, C. G., Canga, J. S., Dominguez, A., Iglesias, M. J. and Guillén, M. D.
Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295
- Blank, C. L.R., see Ikarashi, Y. 645(1993)219
- Blaschke, G., see Becker-Scharfenkamp, U. 621(1993)199
- Blaschke, G., see Elsing, B. 612(1993)223
- Blaschke, G., see Hampe, T. R. E. 634(1993)205
- Blaschke, G., see Heuermann, M. 648(1993)267
- Blaschke, G., see Terefe, H. 615(1993)347
- Bleichert, E., see Gagnon, H. 606(1992)255
- Bliesner, D. M. and Sentell, K. B.
Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23
- Blomberg, L. G., see Andersson, P. E. 641(1993)347
- Blomberg, L. G., see Demirbükler, M. 605(1992)263
- Blomberg, L. G., see Janák, K. 625(1992)311
- Blomberg, L. G., see Janák, K. 637(1993)213
- Blondelle, S. E., Büttner, K. and Houghten, R. A.
Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199
- Blumberg, L. M.
Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119
- Bobbitt, D. R. and Ng, K. W.
Chromatographic analysis of antibiotic materials in food (Review) 624(1992)153
- Boček, P.
Preface 638(1993)117
- Boček, P., see Gebauer, P. 608(1992)47
- Boček, P., see Klepárník, K. 638(1993)283
- Boček, P., see Krivánková, L. 638(1993)119

- Boček, P., see Nardi, A. 638(1993)247
 Boček, P., see Pospíchal, J. 638(1993)179
 Boček, P., see Vespalec, R. 638(1993)255
 Bockbrader, H. N., see Windsor, B. L. 619(1993)315
 Boden, J., see Bächmann, K. 626(1992)259
 Bodennec, G., see Parrish, C. C. 607(1992)97
 Boege, F., Gieseler, F., Müller, M., Biersack, H. and Meyer, P.
 Activation of topoisomerase II during partial purification by heparin-Sepharose chromatography 625(1992)67
 Boesten, J. M. M., see Duchateau, A. L. L. 623(1992)237
 Boggan, W. O., see Patrick, K. S. 621(1993)89
 Bohn, E., see Kunze, H. 636(1993)221
 Boison, J. O.
 Chromatographic methods of analysis for penicillins in food-animal tissues and their significance in regulatory programs for residue reduction and avoidance (Review) 624(1992)171
 Boison, J. O., see Nachilobe, P. 616(1993)243
 Bolaji, O. O., see Babalola, C. P. 616(1993)151
 Bolaji, O. O., Onyeji, C. O., Ogungbamila, F. O., Ogunbona, F. A. and Ogunlana, E. O.
 High-performance liquid chromatographic method for the determination of drotaverine in human plasma and urine 622(1993)93
 Bolognani, L., see Volpi, N. 630(1993)390
 Bolyard, M., see Hautman, D. P. 602(1992)65
 Bombín, M., see García, M. A. 646(1993)297
 Bonati, M., see Bortolotti, A. 617(1993)313
 Bondoux, G., Jandik, P. and Jones, W. R.
 New approach to the analysis of low levels of anions in water 602(1992)79
 Bonetti, G., see Maignial, L. 606(1992)87
 Bonifaci, L. and Ravanetti, G. P.
 Measurement of infinite dilution diffusion coefficients of ϵ -caprolactam in nylon 6 at elevated temperatures by inverse gas chromatography 607(1992)145
 Bonifaci, L. and Ravanetti, G. P.
 Thermodynamic study of polystyrene-*n*-alkane systems by inverse gas chromatography 641(1993)301
 Bonini, P. A., see Grazioli, V. 615(1993)59
 Bonjour, R., see Frost, P. 643(1993)379
 Bonn, G. K.
 Foreword 640(1993)1
 Bonn, G.K., see Oefner, P.J. 625(1992)331
 Bonn, G. K., see Timerbaev, A. R. 630(1993)379
 Bonn, G. K., see Timerbaev, A. R. 640(1993)195
 Bonnafous, J.-C., see Desarnaud, F. 603(1992)95
 Bonnier, H., see Regnault, C. 607(1992)159
 Bontchev, P. R., see Apostolova, M. 620(1993)191
 Bonte, W., see Musshoff, F. 614(1993)1
 Bonte, W., see Musshoff, F. 619(1993)235
 Boomsma, F., Alberts, G., Bevers, M. M., Koning, M. M., Man in 't Veld, A. J. and Schalekamp, M. A. D. H.
 Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82
 Boon, J. J., see Van der Hage, E. R. E. 634(1993)263
 Boone, T. C., see Clogston, C. L. 637(1993)55
 Booth, C. K., Nixon, P. F. and Winzor, D. J.
 Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion 609(1992)83
 Bopp, R. J., see Lantz, R. J. 614(1993)175
 Boppana, V. K., see Miller-Stein, C. 631(1993)233
 Boppana, V. K., Miller-Stein, C. and Rhodes, G. R.
 Normal-phase high-performance liquid chromatographic determination of epristeride, a prostatic steroid 5 α -reductase enzyme inhibitor, in human plasma 631(1993)251
 Boppana, V. K., see Simpson, R. C. 631(1993)227
 Borák, J., see Macka, M. 641(1993)101
 Borch-Jensen, C., see Staby, A. 648(1993)221
 Borg, P. J., Sitaram, B. R. and Taylor, D. A.
 Ion-pair extraction and liquid chromatographic analysis of morphine in rat brain and plasma 621(1993)165
 Borghese, A., see Moretti, G. 616(1993)291
 Borghetti, E., see Benfenati, E. 605(1992)129
 Borner, E., see Borner, K. 615(1993)174
 Borner, K., Borner, E. and Lode, H.
 Determination of a new cephalosporin, SCE-2787, in serum and urine by high-performance liquid chromatography 615(1993)174
 Bornscheuer, U., Schapöhler, S., Scheper, T., Schügerl, K. and König, W. A.
 Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288
 Borro, A., see Shanahan, P. 606(1992)171
 Borrull, F., see Calull, M. 607(1992)339
 Bortolomeazzi, R., Pizzale, L. and Lercker, G.
 Chromatographic determination of the position and configuration of isomers of methyl oleate hydroperoxides 626(1992)109
 Bortolotti, A., Lucchini, G., Barzago, M. M., Stellari, F. and Bonati, M.
 Simultaneous determination of retinol, α -tocopherol and retinyl palmitate in plasma of premature newborns by reversed-phase high-performance liquid chromatography 617(1993)313
 Bory, C., see Bouliou, R. 615(1993)352
 Bos, R. P., see Scheepers, P. T. J. 619(1993)215
 Bos, R. P., see Sessink, P. J. M. 616(1993)333
 Bostic, D., Burns, G. and Harvey, S.
 Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163
 Bostic, D., see Siriraks, A. 640(1993)371
 Bostick, J. M., see Rabel, S. R. 617(1993)79
 Botero-Garcés, S., see Múnera-Jaramillo, M. I. 616(1993)349
 Botte, H. F. and Joergensen, L.
 Evaluation of low-conductance eluents for suppressed ion-exclusion chromatography 602(1992)27
 Botte, H. F., see Joergensen, L. 602(1992)179
 Botterblom, M. H. A., Feenstra, M. G. P. and Erdtsieck-Ernste, E. B. H. W.
 Determination of propranolol, labetalol and clenbuterol in rat brain by high-performance liquid chromatography 613(1993)121
 Botting, H. G., see Sarwar, G. 615(1993)1
 Boublik, J., see Aguilar, M. I. 646(1993)53

- Bouguerra, M. L., see Driss, M. R. 639(1993)352
- Bouissel, S., Erni, F. and Link, R.
Injection of large volumes of aqueous solutions in capillary supercritical fluid chromatography and sample preconcentration by multiple injections 630(1993)307
- Boujet, C., see Faure, H. 616(1993)1
- Bouliou, R., Lenoir, A. and Bory, C.
High-performance liquid chromatographic determination of thiopurine metabolites of azathioprine in biological fluids 615(1993)352
- Bourguignon, B., see Hamoir, T. 633(1993)43
- Bourguignon, B., Marcenac, F., Keller, H. R., De Aguiar, P. F. and Massart, D. L.
Simultaneous optimization of pH and organic modifier content of the mobile phase for the separation of chlorophenols using a Doehlert design 628(1993)171
- Bouriotis, V., see Martinou, A. 644(1993)35
- Bouriotis, V., see Pozidis, C. 630(1993)151
- Bourque, A. J. and Cohen, A. S.
Quantitative analysis of phosphorothioate oligonucleotides in biological fluids using fast anion-exchange chromatography 617(1993)43
- Bourque, A. J., see Cohen, A. S. 638(1993)293
- Bourque, A. J., see Fisher, D. H. 614(1993)142
- Bourquin, D., see Hasler, F. 620(1993)73
- Bourquin, D., see Helmlin, H.-J. 623(1992)381
- Bourquin, D., see Wernly, P. 616(1993)305
- Boutagy, J., see Gross, A. S. 621(1993)115
- Bouvot, V., see Durand, G. 607(1992)319
- Bowling, D. J., see Pinkston, J. D. 622(1993)209
- Bowser, T., see Grocott, S. C. 602(1992)257
- Bowser, T., see Jackson, P. E. 602(1992)33
- Boyajian, J. M., see Yau, W. W. 630(1993)69
- Braaksma, M. A., see Welling-Wester, S. 646(1993)37
- Braggins, T., see Burford, M. D. 609(1992)321
- Brancaleoni, E., see Ciccioli, P. 643(1993)55
- Branch, R. A., see Stiff, D. D. 613(1993)127
- Brandt, K. H., see Hampe, T. R. E. 634(1993)205
- Brandt, T. A., see Chu, P.-S. 620(1993)129
- Brazier, J.-L., see Chaulet, J.-F. 613(1993)303
- Brdička, R. and Nürnberg, P.
Checking of individuality by DNA profiling (Review) 618(1993)167
- Breda, M., Pianezzola, E. and Strolin Benedetti, M.
Determination of exemestane, a new aromatase inhibitor, in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)225
- Bren, N., see O'Brien, T. 613(1993)239
- Brena, B. M., Batista-Viera, F., Rydén, L. and Porath, J.
Selective adsorption of immunoglobulins and glycosylated proteins on phenylboronate-agarose 604(1992)109
- Brennan, J. M., O'Dwyer, P. J., Ozols, R. F. and LaCreta, F. P.
High-performance liquid chromatographic determination of the *S*- and *R*-diastereoisomers of L-buthionine (*SR*)-sulfoximine in human plasma and urine 620(1993)121
- Brennan, S. O., see Wilson, J. B. 617(1993)37
- Brenneisen, R., see Hasler, F. 620(1993)73
- Brenneisen, R., see Helmlin, H.-J. 623(1992)381
- Brenneisen, R., see Wernly, P. 616(1993)305
- Brent Miller, R., Dadgar, D. and Lalande, M.
High-performance liquid chromatographic method for the determination of indapamide in human whole blood 614(1993)293
- Bresson, M., see Rop, P. P. 615(1993)357
- Bretschneider, M., see Lütkemeyer, D. 639(1993)57
- Brewer, T. G., see Marino, M. T. 616(1993)338
- Bridle, D. A., see Amey, M. D. H. 640(1993)323
- Bridonneau, P. and Lederer, F.
Behaviour of human immunoglobulin G subclasses on thiophilic gels: comparison with hydrophobic interaction chromatography 616(1993)197
- Briggs, C. J., see Geda, A. 635(1993)338
- Bright, G. M., Parsons, W. R., Darmaun, D., Rodrigues, A. and Haymond, M. W.
Gas chromatographic-mass spectrometric method for measuring stable isotope enrichments of underivatized cortisol from small plasma volumes 621(1993)1
- Brinkman, U. A. T., see Bagheri, H. 647(1993)121
- Brinkman, U. A. T., see Debets, A. J. J. 608(1992)151
- Brinkman, U. A. T., see De Kok, A. 623(1992)265
- Brinkman, U. A. T., see Geerdink, R. B. 647(1993)329
- Brinkman, U. A. T., see Hogendoorn, E. A. 644(1993)307
- Brinkman, U. A. T., see Kientz, C. E. 626(1992)59
- Brinkman, U. A. T., see Kientz, C. E. 626(1992)71
- Brinkman, U. A. T., see Mol, H. G. J. 630(1993)201
- Brinkman, U. A. T., see Slobodnik, J. 642(1993)359
- Brinkman, U. A. T., see Stäb, J. A. 609(1992)195
- Brinkman, U. A. T., see Steijger, O. M. 615(1993)97
- Brinkman, U. A. T., see Van de Merbel, N. C. 634(1993)1
- Brinkman, U. A. T., see Van der Hage, E. R. E. 634(1993)263
- Brinkman, U. A. T., see Van der Hoff, G. R. 644(1993)367
- Brinkman, U. A. T., see Vreuls, J. J. 625(1992)237
- Brinkmann, C., see Pasch, H. 623(1992)315
- Brinkworth, R. I., see Alewood, P. F. 646(1993)185
- Brites, M. J., Guerreiro, A., Gigante, B. and Marcelo-Curto, M. J.
Quantitative determination of dehydroabietic acid methyl ester in disproportionated rosin 641(1993)199
- Bročović, A., see Janjić, T. J. 609(1992)419
- Bromberg, L. and Levin, G.
Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183
- Brønnum-Hansen, K., see Olsen, L. 636(1993)231
- Brooks, M. A., see Tsai, E. W. 626(1992)245
- Brooks, M. W. and Uden, P. C.
Extraction and analysis of diesel fuel by supercritical fluid extraction and microbore supercritical fluid chromatography 637(1993)175
- Broquaire, M., see Drouin, J. E. 605(1992)19
- Brøsen, K., see Kramer Nielsen, K. 612(1993)87
- Brossard, S., Lafosse, M. and Dreux, M.
Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323
- Brouwer, E. R., see Bagheri, H. 647(1993)121
- Brouwer, E. R., see Slobodnik, J. 642(1993)359
- Brown, A. S., see Mallinger, A. G. 614(1993)67
- Brown, B. L., see Geiser, F. O. 631(1993)1

- Brown, D. S., see Scislowski, P. W. D. 619(1993)299
- Brown, P. R., see De Antonis, K. M. 632(1993)91
- Brown, P. R., see Weston, A. 602(1992)249
- Brown, P. R., see Weston, A. 608(1992)395
- Brown, R. E., see Johnson, S. B. 605(1992)281
- Brown, W. L., see Di Marco, M. P. 645(1993)107
- Brownrigg, C. M., see Brumley, W. C. 633(1993)177
- Brownrigg, C. M., see Brumley, W. C. 646(1993)377
- Bruat, G., see Ogorka, J. 626(1992)87
- Bruchelt, G., see Gebhardt, S. 638(1993)235
- Bruchelt, G., Niethammer, D. and Schmidt, K. H.
Isotachopheresis of nucleic acid constituents (Review)
618(1993)57
- Bruckert, H.-J., see Schoene, K. 605(1992)257
- Brückner, H. and Hausch, M.
Gas chromatographic characterization of free D-amino
acids in the blood serum of patients with renal disorders
and of healthy volunteers 614(1993)7
- Brückner, H. and Strecker, B.
Use of chiral monohalo-*s*-triazine reagents for the liquid
chromatographic resolution of DL-amino acids
627(1992)97
- Bruckner, J. V., see Chen, X. M. 612(1993)199
- Bruggink, C., see Niessen, W. M. A. 647(1993)319
- Bruggink, C., see Van der Hoeven, R. A. M. 627(1992)63
- Bruin, G. J. M., Van Asten, A. C., Xu, X. and Poppe, H.
Theoretical and experimental aspects of indirect detection
in capillary electrophoresis 608(1992)97
- Bruins, A. P., see Kostiaainen, R. 634(1993)113
- Bruins, A. P., see Kostiaainen, R. 647(1993)361
- Brumback, L. C., see Scully, H. S. 640(1993)345
- Brumley, W. C.
Qualitative analysis of environmental samples for
aromatic sulfonic acids by high-performance capillary
electrophoresis 603(1992)267
- Brumley, W. C. and Brownrigg, C. M.
Electrophoretic behavior of aromatic-containing organic
acids and the determination of selected compounds in
water and soil by capillary electrophoresis 646(1993)377
- Brumley, W. C., Brownrigg, C. M. and Grange, A. H.
Determination of toxaphene in soil by electron-capture
negative ion mass spectrometry after fractionation by
high-performance gel permeation chromatography
633(1993)177
- Brunner, G., see Tsikas, D. 614(1993)37
- Brunner, G., see Velásquez, R. 639(1993)317
- Brunner, J., see Kaltenbrunner, O. 639(1993)41
- Brunner, L. J., DiPiro, J. T. and Feldman, S.
Serum antipyrine concentrations determined by micellar
electrokinetic capillary chromatography 622(1993)98
- Bruno, A., see Pietta, P. 638(1993)357
- Bruno, G., Curti, S., Longo, A., Marzo, A. and Arrigoni
Martelli, E.
High-performance liquid chromatographic assay for
N²-[5-(hypoxanthin-9-yl)pentylloxycarbonyl]-L-arginine
(ST 789) in plasma by cyclization with benzoin and
fluorimetric detection 619(1993)167
- Bruno, R., see Van Gijn, R. 614(1993)299
- Brunt, E. P. R., see Wolthers, B. G. 622(1993)33
- Bruynseels, V., see Vandenbosch, C. 612(1993)77
- Brzin, J., see Popović, T. 615(1993)243
- Bubser, M. and Bartmann, M.
Effect of carbon in-line filters on catecholamine analysis
by high-performance liquid chromatography with
coulometric electrochemical detection 615(1993)339
- Bucci, E., see Chiancone, E. 604(1992)117
- Büch, H. P., see Altmayer, P. 612(1993)326
- Büch, U., see Altmayer, P. 612(1993)326
- Buchan, V., see Scislowski, P. W. D. 619(1993)299
- Buchberger, W. and Haddad, P. R.
Effects of carrier electrolyte composition on separation
selectivity in capillary zone electrophoresis of low-
molecular-mass anions 608(1992)59
- Buchberger, W., Malissa, H. and Müllender, E.
Direct serum injection in ion chromatography on packing
materials with a semi-permeable surface 602(1992)51
- Buchberger, W., see Timerbaev, A. R. 630(1993)379
- Budzinski, H., Radke, M., Garrigues, P., Wise, S. A., Bellocq,
J. and Willsch, H.
Gas chromatographic retention behaviour of alkylated
phenanthrenes on a smectic liquid crystalline phase.
Application to organic geochemistry 627(1992)227
- Buick, A. R. and Fook Sheung, C. T. C.
Determination of 1-(β -D-arabinofuranosyl)-5-(1-
propynyl)uracil and a metabolite, 5-propynyluracil, in
plasma using ASTED (automated sequential trace
enrichment of dialysates) combined, on-line, with high-
performance liquid chromatography 617(1993)65
- Buijs, M. J. H., see Plomp, T. A. 612(1993)123
- Buithieu, J., see O'Brien, T. 613(1993)239
- Bulbena, O., see Bioque, G. 615(1993)191
- Bullock, J.
Capillary zone electrophoresis and packed capillary
column liquid chromatographic analysis of recombinant
human interleukin-4 633(1993)235
- Bullock, J.
Application of capillary electrophoresis to the analysis of
the oligomeric distribution of polydisperse polymers
645(1993)169
- Bult, A., see Burger, D. M. 622(1993)235
- Bult, A., see Kaijser, G. P. 614(1993)253
- Büntemeyer, H., see Lütkemeyer, D. 639(1993)57
- Burford, M. D., see Hawthorne, S. B. 642(1993)301
- Burford, M. D., Hawthorne, S. B., Miller, D. J. and Braggins,
T.
Comparison of methods to prevent restrictor plugging
during off-line supercritical extraction 609(1992)321
- Burford, M. D., Hawthorne, S. B., Miller, D. J. and
Macomber, J.
Construction of a robust stainless-steel clad fused-silica
restrictor for use in supercritical fluid extraction
648(1993)445
- Burford, M. D., see Smith, R. M. 627(1992)255
- Burger, B. V. and Le Roux, M.
Trace determination of volatile organic compounds in
water by enrichment in ultra-thick-film capillary traps
and gas chromatography 642(1993)117

- Burger, D. M., Rosing, H., Koopman, F. J., Meenhorst, P. L., Mulder, J. W., Bult, A. and Beijnen, J. H.
Determination of 3'-amino-3'-deoxythymidine, a cytotoxic metabolite of 3'-azido-3'-deoxythymidine, in human plasma by ion-pair high-performance liquid chromatography 622(1993)235
- Burgess, A. W., see Fabri, L. 646(1993)213
- Burgess, A. W., see Nice, E. 646(1993)159
- Burholt, I. M. V., see Andrew, M. 640(1993)111
- Burke, J. A., see Pirkle, W. H. 641(1993)21
- Burke, J. F., see Tredget, E. E. 612(1993)7
- Burkinshaw, S. M., Hinks, D. and Lewis, D. M.
Capillary zone electrophoresis in the analysis of dyes and other compounds employed in the dye-manufacturing and dye-using industries 640(1993)413
- Burns, G., see Bostic, D. 602(1992)163
- Burrows, J. A. and Goward, C. R.
Preparation of DNA polymerase from *Bacillus caldotenax* 639(1993)75
- Burt, H. M., see Aoyama, R. G. 626(1992)271
- Burt, H. M., see Gentleman, M. S. 633(1993)105
- Busch, S., see Kraak, J. C. 608(1992)257
- Busch, S., Kraak, J. C. and Poppe, H.
Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119
- Butler, E. C. V. and Dal Pont, G.
Liquid chromatography-electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113
- Büttner, K., see Blondelle, S. E. 625(1992)199
- Büttner, K., Pinilla, C., Appel, J. R. and Houghten, R. A.
Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191
- Butz, S. and Stan, H.-J.
Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227
- Buzinkaiová, T., Sádecká, J., Polonský, J., Vlašičová, E. and Kořínková, V.
Isotachophoretic analysis of some antidepressants 638(1993)231
- Buzitis, J., see Krahn, M. M. 642(1993)15
- Bygbjerg, I. C., see Lemnge, M. M. 613(1993)340
- Bykova, T. O., see Eremeeva, T. E. 639(1993)159
- Cabrera, K., Wieland, G. and Schäfer, M.
High-performance liquid chromatographic separation of fullerenes (C₆₀ and C₇₀) using chemically bonded γ -cyclodextrin as stationary phase 644(1993)396
- Caccamese, S., Benincori, T. and Principato, G.
Direct liquid chromatographic separation of the enantiomers of a 1,3-dihydrophenylindol-2-one and of a 2,3-dihydro-2-oxo-benzofuran derivative 623(1992)159
- Cacia, J., Quan, C. P., Vasser, M., Sliwowski, M. B. and Frenz, J.
Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229
- Cadet, J., see Faure, H. 616(1993)1
- Cadet, J., see Polverelli, M. 613(1993)257
- Caffaro, S. V., see Estrella Legaz, M. 607(1992)245
- Caglio, S., see Righetti, P. G. 638(1993)165
- Cahnmann, H. J., see Ito, Y. 625(1992)177
- Cai, J. and El Rassi, Z.
Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31
- Caillé, G., see Lemko, C. H. 619(1993)330
- Cais, M., see Shimoni, M. 646(1993)99
- Caixach, J., see Galceran, M. T. 643(1993)399
- Cajigas, A., see Steinberg, J. J. 612(1993)277
- Caldwell, K. D., Li, J., Li, J.-T. and Dalgleish, D. G.
Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63
- Calull, M., Marcé, R. M., Sánchez, G. and Borrull, F.
Determination of additives in wine by high-performance liquid chromatography 607(1992)339
- Calvo, M. M., see Garcia-Raso, A. 607(1992)221
- Calzaferrri, G., see Herren, D. 644(1993)188
- Camacho, A., see Rosell, G. 619(1993)87
- Camacho-Torralba, P. L., Beeson, M. D., Vigh, G. and Thompson, D. H.
High-performance chiral displacement chromatographic separations in the normal-phase mode. II. Separation of the enantiomers of 1,2-O-dihexadecyl-*rac*-type naphthylalanine silica stationary phase 646(1993)259
- Camacho-Torralba, P. L., Vigh, G. and Thompson, D. H.
High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31
- Camel, V., Tambuté, A. and Caude, M.
Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263
- Camel, V., Thiébaud, D., Caude, M. and Dreux, M.
Packed column subcritical fluid chromatography of underivatized amino acids 605(1992)95
- Camenzind, R., see Frost, P. 643(1993)379
- Cabezas, Jr., H., see Levine, M. L. 607(1992)113

C

- Cammann, K. and Hübner, K.
False results in headspace-gas chromatographic analysis of trihalomethanes in swimming pool water due to elevated headspace temperatures 648(1993)294
- Cammann, K., see Kleiböhmer, W. 638(1993)349
- Cammarata, P., see Moretti, G. 616(1993)291
- Campbell, B. J., Davies, M. J., Rhodes, J. M. and Hounsell, E. F.
Separation of neutral oligosaccharide alditols from human meconium using high-pH anion-exchange chromatography 622(1993)137
- Campbell, J. A., see Harvey, S. D. 605(1992)227
- Campins-Falcó, P., Herráez-Hernández, R. and Sevillano-Cabeza, A.
Improved detection limits for screening of diuretics by coupled liquid chromatography and ultraviolet-visible spectrophotometry 612(1993)245
- Campins-Falcó, P., Herráez-Hernández, R. and Sevillano-Cabeza, A.
Column-switching techniques for high-performance liquid chromatography of drugs in biological samples (Review) 619(1993)177
- Camps, F., see Marco, M.-P. 641(1993)81
- Camussi, G., see Silvestro, L. 647(1993)261
- Canafax, D. M., see Lovdahl, M. 617(1993)329
- Cancilla, D. A. and Que Hee, S. S.
O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1
- Candito, M., Albertini, M., Politano, S., Deville, A., Mariani, R. and Chambon, P.
Plasma catecholamine levels in children 617(1993)304
- Candito, M., Cavenel, C., Gugenheim, J., Mouiel, J., Parisot, F., Jacomet, Y., Sudaka, P. and Chambon, P.
Simple column liquid chromatographic assay for serum neopterin 614(1993)164
- Candy, D. J., see Gbewonyo, W. S. K. 607(1992)105
- Canella, K., see Peltonen, K. 623(1992)247
- Canepari, S., Carunchio, V., Girelli, A. M. and Messina, A.
New method for guanase activity measurement by high-performance liquid chromatography 616(1993)25
- Canga, J. S., see Blanco, C. G. 607(1992)295
- Cann, J. R., see Munro, P. D. 646(1993)3
- Canova-Davis, E., see Teshima, G. 625(1992)207
- Canton, L. and Grimalt, J. O.
Gas chromatographic-mass spectrometric characterization of polycyclic aromatic hydrocarbon mixtures in polluted coastal sediments 607(1992)279
- Cao, X.-L. and Hewitt, C. N.
Trapping efficiencies of capillary cold traps for C₂-C₁₀ hydrocarbons 627(1992)219
- Cao, X.-L. and Hewitt, C. N.
Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191
- Capilla, P., see De Vanssay, E. 639(1993)255
- Capri, S., see Marcomini, A. 644(1993)59
- Caprioli, R. and Torcini, S.
Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365
- Carabias Martínez, R., Rodríguez Gonzalo, E., Amigo Moran, M. J. and Hernandez Mendez, J.
Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37
- Carabias Martínez, R., Rodríguez Gonzalo, E., Garay García, F. and Hernández Méndez, J.
Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49
- Cardellicchio, N., Cavalli, S. and Riviello, J. M.
Determination of cadmium and lead at µg/l levels in aqueous matrices by chelation ion chromatography 640(1993)207
- Carelli, A. A. and Cert, A.
Comparative study of the determination of triacylglycerol in vegetable oils using chromatographic techniques 630(1993)213
- Careri, M., Mangia, A., Manini, P., Predieri, G., Raverdino, V., Tsoupras, G. and Sappa, E.
Particle beam liquid chromatography-mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79
- Careri, M., Mori, G., Predieri, G., Souza de Rezende, N. and Sappa, E.
High-performance liquid chromatography of trinuclear ruthenium acetylido-carbonyl compounds 634(1993)143
- Carkuff, D. W., see Zoutendam, P. H. 631(1993)221
- Carlin, A. S., Simmons, J. E., Kocova El-Arini, S. and Shiu, G. K.
Determination of khellin in serum by gas chromatography 614(1993)324
- Carlson, R., see Sunesson, A.-L. 623(1992)93
- Carlsson, T., see Bhikhabhai, R. 604(1992)157
- Carlsson, T., see Bhikhabhai, R. 639(1993)67
- Carmi-Leroy, A., see Dandeu, J.-P. 621(1993)23
- Carnevale, J., see Fuping, H. 640(1993)187
- Carnevale, J., see Grocott, S. C. 602(1992)257
- Caron, M., Joubert-Caron, R., Cartier, J. R., Chadli, A. and Bladier, D.
Study of lectin-ganglioside interactions by high-performance liquid affinity chromatography 646(1993)327
- Caronna, A., see Pacifici, R. 612(1993)209
- Carpenter, P. K., see Chappell, I. 603(1992)49
- Carr, P. W., see Helfferich, F. G. 629(1993)97
- Carr, P. W., see Zhang, Y. 638(1993)43
- Carrea, G., see Chiari, M. 645(1993)197
- Carreras, D., see Imaz, C. 631(1993)201
- Carrier, A., see Gagné, J. P. 647(1993)13
- Carrier, A., see Gagné, J. P. 647(1993)21
- Carro, A. M., see Rubí, E. 605(1992)69
- Carruthers, R. A., see Davies, M. J. 646(1993)317
- Carson, W., see Cheng, Y.-F. 608(1992)109
- Carta, G. and Stringfield, W. B.
Analytic solution for volume-overloaded gradient elution chromatography 605(1992)151
- Carter, G., see Hamilton, C. L. 613(1993)365
- Cartier, J. R., see Caron, M. 646(1993)327

- Cartron, J. P., see Kroviarski, Y. 633(1993)273
- Carunchio, V., see Canepari, S. 616(1993)25
- Caruso, J. A., see Vela, N. P. 641(1993)337
- Casais, C., see Rubí, E. 605(1992)69
- Casari, E., see Grazioli, V. 615(1993)59
- Cashaw, J. L.
Determination of tetrahydropapaveroline in the urine of Parkinsonian patients receiving L-dopa-carbidopa (Sinemet) therapy by high-performance liquid chromatography 613(1993)267
- Caslavska, J., Kaufmann, T., Gebauer, P. and Thormann, W.
Efficient computerized data acquisition and evaluation for capillary isotachopheresis in quiescent and flowing solution with single detectors placed towards the capillary end 638(1993)205
- Caslavska, J., Lienhard, S. and Thormann, W.
Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335
- Cassels, B. K., see Speisky, H. 612(1993)315
- Cassiano, L., see Castagnola, M. 638(1993)327
- Cassidy, R. M., see Chen, M. 602(1992)227
- Cassidy, R. M., see Chen, M. 640(1993)425
- Cassidy, R. M., see Lu, W. 640(1993)433
- Cassidy, R. M., see Nachilobe, P. 616(1993)243
- Castagnola, M., Rossetti, D. V., Cassiano, L., Rabino, R., Nocca, G. and Giardina, B.
Optimization of phenylthiohydantoinamino acid separation by micellar electrokinetic capillary chromatography 638(1993)327
- Castellani, L., Federici, F., Sinibaldi, M. and Messina, A.
Direct resolution of organic acid enantiomers on a novel polymer-based stationary phase 602(1992)21
- Castellar, M. R., Montijano, H., Manjón, A. and Iborra, J. L.
Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187
- Castello, G. and D'Amato, G.
Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289
- Castello, G., D'Amato, G. and Vezzani, S.
Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361
- Castello, G., see Gerbino, T. C. 609(1992)289
- Castello, G., see Gerbino, T. C. 626(1992)207
- Castello, G., see Gerbino, T. C. 634(1993)338
- Castello, G. and Gerbino, T. C.
Analysis of polycyclic aromatic hydrocarbons with an ion-trap mass detector and comparison with other gas chromatographic and high-performance liquid chromatographic techniques 642(1993)351
- Castello, G., Moretti, P. and Vezzani, S.
Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103
- Castello, P., see Gerbino, T. C. 623(1992)123
- Castillo, M. and Smith, P. C.
Direct determination of ibuprofen and ibuprofen acyl glucuronide in plasma by high-performance liquid chromatography using solid-phase extraction 614(1993)109
- Castledine, J. B., Fell, A. F., Modin, R. and Sellberg, B.
Enhanced chromatographic peak-purity evaluation of phenolic solutes using pH-induced spectral transformations 626(1992)127
- Cataldo, D. A., see Harvey, S. D. 605(1992)227
- Cataldo, D. A., see Harvey, S. D. 630(1993)167
- Caude, M., see Camel, V. 605(1992)95
- Caude, M., see Camel, V. 642(1993)263
- Cavalli, S., see Cardellicchio, N. 640(1993)207
- Cavenel, C., see Candito, M. 614(1993)164
- Cebrián-Pérez, J. A., see Pascual, M. L. 617(1993)51
- Cebrián Guajardo, N., see Ormad Melero, M. P. 607(1992)311
- Cecinato, A., see Ciccioli, P. 643(1993)55
- Cedro, A., see Da Col, R. 647(1993)289
- Cela, R., Lores, M. and Garcia, C. M.
Applicability of a postcolumn photochemical reactor in the high-performance liquid chromatography of 34 polyphenolic compounds with UV detection 626(1992)117
- Cela, R., see Rubí, E. 605(1992)69
- Čelap, M. B., see Janjić, T. J. 609(1992)419
- Čelap, M. B., see Janjić, T. J. 626(1992)305
- Čelap, M. B., see Tešić, Ž. L. 628(1993)148
- Čelap, M. B., see Vučković, G. 609(1992)427
- Cellerino, G. P., see Achilli, G. 632(1993)111
- Celma, C.
Determination of the aza alkyl lysophospholipid 3-methoxy-2-N,N-methyloctadecylaminopropylphosphorylcholine in rat plasma by liquid chromatography-particle beam-mass spectrometry 622(1993)215
- Cerretani, D., Micheli, L., Fiaschi, A. I. and Giorgi, G.
Rapid and sensitive determination of piroxicam in rat plasma, muscle and skin by high-performance liquid chromatography 614(1993)103
- Cert, A., see Carelli, A. A. 630(1993)213
- Cesarotti, E., see Pallavicini, M. 604(1992)197
- Cessna, A. J. and Kerr, L. A.
Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417
- Cha, G. S., see Han, S. H. 648(1993)283
- Chabard, J. L., see Lartigue-Mattei, C. 617(1993)140
- Chaboud, A., see Girin, M. A. 637(1993)206
- Chadli, A., see Caron, M. 646(1993)327
- Chaffins, S., see Holmes, K. A. 613(1993)317
- Chaga, G., Andersson, L. and Porath, J.
Purification and determination of the binding site of lactate dehydrogenase from chicken breast muscle on immobilized ferric ions 627(1992)163
- Chaga, G. S., Medin, A. S., Chaga, S. G. and Porath, J. O.
Isolation and characterization of catalase from *Penicillium chrysogenum* 604(1992)177
- Chaga, S. G., see Chaga, G. S. 604(1992)177
- Chai, W., see Davies, M. J. 646(1993)317
- Chaintreau, A., see Maignal, L. 606(1992)87

- Challenger, O. J., Hill, S. J. and Jones, P.
Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197
- Chalom, J., see Prevot, M. 605(1992)33
- Chambers, J., see Kelly, M. J. 620(1993)105
- Chambers, M., see Tredget, E. E. 612(1993)7
- Chambon, P., see Candito, M. 614(1993)164
- Chambon, P., see Candito, M. 617(1993)304
- Chan, D. C. N., see Lam, Y. W. F. 612(1993)166
- Chan, E. N. L. and Goodall, D. M.
Capillary electrophoresis analysis of polyhaematoporphyrin, a photosensitizer used in photodynamic therapy 636(1993)171
- Chan, K. and Jones, R. D. M.
Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154
- Chan, K. C., Janini, G. M., Muschik, G. M. and Issaq, H. J.
Micellar electrokinetic chromatography of hydroxyproline and other secondary amino acids in biological samples with laser-induced fluorescence detection 622(1993)269
- Chan, S.-L., see Krahn, M. M. 642(1993)15
- Chanegriha, N. and Baalouamer, A.
Evaluation of series-coupled gas chromatographic capillaries of different polarities. Application to the resolution of problem pairs of constituents in Algerian cypress essential oil 633(1993)163
- Chang, D.-K., see Woo, K.-L. 638(1993)97
- Chang, H.-T. and Yeung, E. S.
Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65
- Chang, H.-T. and Yeung, E. S.
Voltage programming in capillary zone electrophoresis 632(1993)149
- Chang, T., see Windsor, B. L. 619(1993)315
- Chang, W.-C., see Pan, F.-M. 613(1993)326
- Chang, W.-H., see Cheng, F.-C. 617(1993)227
- Chang, W.-H., see Chung, M.-C. 613(1993)168
- Chang, Y.-W., see Hsu, M.-C. 609(1992)181
- Chang, Z. L., see Bauer, J. F. 648(1993)175
- Changaris, D. G., see Miller, J. J. 627(1992)153
- Chappell, C. G., Creaser, C. S. and Shepherd, M. J.
Modified on-column interface for coupled high-performance liquid chromatography-gas chromatography and its application to the determination of levamisole in milk 626(1992)223
- Chappell, I., Baines, P. and Carpenter, P. K.
Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49
- Charbonneau, J. R., see Barkley, D. J. 606(1992)195
- Charbonneau, J. R., see Barkley, D. J. 642(1993)371
- Chari, G., see Wielbo, D. 615(1993)164
- Charles, B. G., see Chulavatnatol, S. 615(1993)91
- Charles, B. G., see Sidhu, J. S. 612(1993)161
- Charton, F., Jacobson, S. C. and Guiochon, G.
Modeling of the adsorption behavior and the chromatographic band profiles of enantiomers. Behavior of methyl mandelate on immobilized cellulose 630(1993)21
- Chase, H. A., see McCreath, G. E. 629(1993)201
- Chaudhary, R. S., Gangwal, S. S., Avachat, M. K., Shah, Y. N. and Jindal, K. C.
Determination of diltiazem hydrochloride in human serum by high-performance liquid chromatography 614(1993)261
- Chaudhary, R. S., Gangwal, S. S., Jindal, K. C. and Khanna, S.
Reversed-phase high-performance liquid chromatography of ketorolac and its application to bioequivalence studies in human serum 614(1993)180
- Chaulet, J.-F., Robet, Y., Prévosto, J.-M., Soares, O. and Brazier, J.-L.
Simultaneous determination of chloroquine and quinine in human biological fluids by high-performance liquid chromatography 613(1993)303
- Chaussard, J., see Houzé, P. 619(1993)251
- Chee, G. L. and Wan, T. S. M.
Reproducible and high-speed separation of basic drugs by capillary zone electrophoresis 612(1993)172
- Chen, C.-F., see Peng, Y.-T. 617(1993)87
- Chen, D.-Y., see Zhao, J.-Y. 608(1992)117
- Chen, I.-C. and Whang, C.-W.
Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208
- Chen, M. and Cassidy, R. M.
Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227
- Chen, M. and Cassidy, R. M.
Separation of metal ions by capillary electrophoresis 640(1993)425
- Chen, N., Wang, L. and Zhang, Y.
Influence of column temperature and physico-chemical properties on the electrophoretic behaviour of polyglycine peptides in free-solution capillary electrophoresis 644(1993)175
- Chen, N., Zhang, Y. and Lu, P.
The *S* index in the retention equation in reversed-phase high-performance liquid chromatography 603(1992)35
- Chen, N., Zhang, Y. and Lu, P.
Effects of molecular structure on the *S* index in the retention equation in reversed-phase high-performance liquid chromatography 606(1992)1
- Chen, N., Zhang, Y. and Lu, P.
Effects of molecular structure on the $\log k'_w$ index and linear S - $\log k'_w$ correlation in reversed-phase high-performance liquid chromatography 633(1993)31
- Chen, S., see Pawlowska, M. 641(1993)257
- Chen, W.-S., see Yeh, C.-F. 630(1993)275
- Chen, X., see Zhu, M. 628(1993)37
- Chen, X. B., Kyle, D. J. and Ørskov, E. R.
Measurement of allantoin in urine and plasma by high-performance liquid chromatography with pre-column derivatization 617(1993)241
- Chen, X.-H., Franke, J.-P., Ensing, K., Wijsbeek, J. and De Zeeuw, R. A.
Semi-automated solid-phase extraction procedure for drug screening in biological fluids using the ASPEC system in combination with Clean Screen DAU columns 613(1993)289

- Chen, X.-H., Franke, J.-P., Wijsbeek, J. and De Zeeuw, R. A.
Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147
- Chen, X.-H., Franke, J.-P., Wijsbeek, J. and De Zeeuw, R. A.
Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137
- Chen, X. M., Dallas, C. E., Muralidhara, S., Srivatsan, V. and Bruckner, J. V.
Analyses of volatile C₂ haloethanes and haloethenes in tissues: sample preparation and extraction 612(1993)199
- Chen, Y.-F., see Meng, Q. C. 614(1993)19
- Chen, Y.-L., see Jinno, K. 648(1993)71
- Cheng, F.-C., Kuo, J.-S., Chang, W.-H., Juang, D.-J., Shih, Y. and Lai, J.-S.
Rapid and reliable high-performance liquid chromatographic method for analysing human plasma serotonin, 5-hydroxyindoleacetic acid, homovanillic acid and 3,4-dihydroxyphenylacetic acid 617(1993)227
- Cheng, F.-C., Kuo, J.-S., Shih, Y., Lai, J.-S., Ni, D.-R. and Chia, L.-G.
Simultaneous measurement of serotonin, catecholamines and their metabolites in mouse brain homogenates by high-performance liquid chromatography with a microbore column and dual electrochemical detection 615(1993)225
- Cheng, Y.-F., Fuchs, M., Andrews, D. and Carson, W.
Membrane fraction collection for capillary electrophoresis 608(1992)109
- Chenier, M. J., see Barkley, D. J. 642(1993)371
- Chen Jr., E. N., Cusatis, P. D. and Popiel, E. J.
Validation of the aromatic ring distribution in diesel fuel refinery streams by supercritical fluid chromatography and mass spectrometry 637(1993)181
- Chernov, I. P., see Potaman, V. N. 648(1993)151
- Chesler, S. N., see Emery, A. P. 606(1992)221
- Chesney, D. J., see Luehrs, D. C. 627(1992)37
- Cheul Moon, D., see Lee, K.-J. 616(1993)135
- Chevanne, F., see Le Guévello, P. 622(1993)284
- Chia, L.-G., see Cheng, F.-C. 615(1993)225
- Chiancone, E., Fronticelli, C., Gattoni, M., Urbaitis, B. K. and Bucci, E.
Immobilized hemoglobin in the purification of hemoglobin-based oxygen carriers 604(1992)117
- Chiap, P., see Hubert, P. 622(1993)53
- Chiari, M., see Bello, M. S. 625(1992)323
- Chiari, M., Nesi, M., Carrea, G. and Righetti, P. G.
Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197
- Chiari, M., see Righetti, P. G. 638(1993)165
- Chiba, H., Ito, Y., Matsuno, K., Kobayashi, K., Kurosawa, T., Ikegawa, S., Mahara, R. and Tohma, M.
Determination of urinary 18-hydroxycortisol by isocratic normal-phase high-performance liquid chromatography 613(1993)132
- Chiba, M., see Singh, R. P. 643(1993)249
- Chicharro, M., Zapardiel, A., Bermejo, E., Perez, J. A. and Hernández, L.
Direct determination of ephedrine and norephedrine in human urine by capillary zone electrophoresis 622(1993)103
- Chiesa, C. and Horváth, C.
Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337
- Chikuma, M., see Saito, Y. 635(1993)71
- Chikuma, T., Tanaka, W., Yamada, K., Ishii, Y., Tanaka, A. and Kato, T.
High-performance liquid chromatographic determination of PZ-peptidase activity 635(1993)81
- Ching, C. B., Lim, B. G., Lee, E. J. D. and Ng, S. C.
Preparative resolution of praziquantel enantiomers by simulated counter-current chromatography 634(1993)215
- Chiron, S. and Barceló, D.
Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125
- Chirrey, L., see Cummings, J. 612(1993)105
- Chlenov, M. A., Kandyba, E. I., Nagornaya, L. V., Orlova, I. L. and Volgin, Y. V.
High-performance liquid chromatography of human glycoprotein hormones 631(1993)261
- Chmelik, J. and Thormann, W.
Isoelectric focusing field-flow fractionation and capillary isoelectric focusing with electroosmotic zone displacement. Two approaches to protein analysis in flowing streams 632(1993)229
- Choc, M. G., see Kalafsky, G. 614(1993)307
- Choi, Y. C., see Lie Ken Jie, M. S. F. 625(1992)271
- Choinski, Jr., J. S., see Hansen, Jr., E. B. 603(1992)157
- Choisy, H., see Lamiable, D. 620(1993)273
- Choisy, H., see Trenque, T. 615(1993)343
- Chollet, D., Künstner, P. and Wermeille, M.
High-performance liquid chromatographic method for the determination of dimethindene in urine 629(1993)89
- Choma, I. and Dawidowicz, A. L.
Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. II. Application in high-performance liquid chromatography 641(1993)211
- Choma, I., Dawidowicz, A. L., Dobrowolski, R. and Pikus, S.
Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. I. Physico-chemical properties of siliceous materials with immobilized Carbowax 20M layer 641(1993)205
- Chong-Yu, X., see Xianren, Q. 640(1993)3
- Chottard, J.-C., see Gonnet, F. 648(1993)279
- Chou, J. Z., Albeck, H. and Kreek, M. J.
Determination of nalmefene in plasma by high-performance liquid chromatography with electrochemical detection and its application in pharmacokinetic studies 613(1993)359

- Chrétien, J. R., Riguezza, M., Hassani, A. and Meklati, B. Y.
Factor analysis and experimental design in high-performance liquid chromatography. XIII.
Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261
- Chrétien, M., see Basak, A. 615(1993)251
- Christen, H. J., see Hoffmann, G. F. 617(1993)1
- Christensen, M. W., see Kirk, O. 606(1992)49
- Christensen, R. G., see Zhang, X. 603(1992)193
- Christie, W. W.
Advances in applied lipid research, volume 1 (edited by F. B. Padley) (Book Review) 628(1993)322
- Christie, W. W., see El-Hamdy, A.H. 630(1993)438
- Christie, W. W., see Nikolova-Damyanova, B. 609(1992)133
- Christophersen, A. S., see Krogh, M. 621(1993)41
- Christov, R., see Bankova, V. 607(1992)150
- Christov, R. and Bankova, V.
Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182
- Chu, P.-S., Wang, R. Y., Brandt, T. A. and Weerasinghe, C. A.
Determination of albendazole-2-aminosulfone in bovine milk using high-performance liquid chromatography with fluorometric detection 620(1993)129
- Chu, S., see Hussein, Z. 613(1993)105
- Chu, S., see Hussein, Z. 613(1993)113
- Chulavatnatol, S. and Charles, B. G.
High-performance liquid chromatographic determination of amoxicillin in urine using solid-phase, ion-pair extraction and ultraviolet detection 615(1993)91
- Chung, H.-C. and Hsu, M.-C.
Liquid chromatographic determination of amoxicillin preparations. Interlaboratory validation 629(1993)277
- Chung, H. D., see Mattammal, M. B. 614(1993)205
- Chung, M.-C., Lin, S.-K., Chang, W.-H. and Jann, M. W.
Determination of clozapine and desmethylclozapine in human plasma by high-performance liquid chromatography with ultraviolet detection 613(1993)168
- Churáček, J., see Ventura, K. 642(1993)379
- Churchwell, M. I., see Abián, J. 629(1993)267
- Chyueh, S.-D., see Yeh, C.-F. 630(1993)275
- Ciavatta, C. and Govi, M.
Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261
- Ciccioni, P., Brancaloni, E., Cecinato, A., Sparapani, R. and Frattoni, M.
Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55
- Cichy, M. A., Stegmeier, D. L., Veening, H. and Becker, H.-D.
High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15
- Cihlář, T. and Rosenberg, I.
Efficient separation of natural ribonucleotides by low-pressure anion-exchange chromatography 644(1993)299
- Cirilli, R., see Gallinella, B. 639(1993)193
- Claeys, P., see Paesen, J. 630(1993)117
- Clarke, R. J., see Black, R. M. 637(1993)71
- Clasen, P.-E., see Langseth, W. 603(1992)290
- Claus, R., see Dehnhard, M. 616(1993)205
- Clench, M. R., see Allen, D. W. 629(1993)283
- Clifford, A. A., see Janda, V. 642(1993)283
- Clogston, C. L., Hu, S., Boone, T. C. and Lu, H. S.
Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55
- Coates, J. A., see Davis, W. M. 643(1993)341
- Cochet, S., see Krovčarski, Y. 633(1993)273
- Codd, G. A., see Poon, G. K. 628(1993)215
- Coene, J., Van den Eeckhout, E., Herdewijn, P. and Sandra, P.
Gas chromatographic determination of alkyl lysophospholipids after solid-phase extraction from cell culture media 612(1993)21
- Coenegracht, P. M. J., Metting, H. J., Van Loo, E. M., Snoeijer, G. J. and Doornbos, D. A.
Peak tracking with a neural network for spectral recognition 631(1993)145
- Coenegracht, P. M. J., see Wieling, J. 629(1993)181
- Coenegracht, P. M. J., see Wieling, J. 635(1993)195
- Cofino, W. P., see Stáb, J. A. 609(1992)195
- Cohen, A. S., see Bourque, A. J. 617(1993)43
- Cohen, A. S., Vilenchik, M., Dudley, J. L., Gemborys, M. W. and Bourque, A. J.
High-performance liquid chromatography and capillary gel electrophoresis as applied to antisense DNA 638(1993)293
- Cohen, M. R., see Husain, N. 635(1993)211
- Colding, A., see Bergholdt, A. 644(1993)412
- Cole, R. B., see Varghese, J. 639(1993)303
- Cole, S. R. and Dorsey, J. G.
Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177
- Coll, J., see Marco, M.-P. 641(1993)81
- Collet, J., see Gonnord, M. F. 645(1993)327
- Colli, M., Zabarini, L., Melzi d'Eril, G. V. and Marchetti, R.
Evaluation of a modified Marcali technique with high-performance liquid chromatography-ultraviolet detection for the determination of 2,4-toluene diisocyanate in air 643(1993)51
- Colmsjö, A., see Bemgård, A. 630(1993)287
- Colmsjö, A., see Janák, K. 637(1993)213
- Colmsjö, A. L., see Janák, K. 625(1992)311
- Compagnini, A., Fichera, M., Fisichella, S., Foti, S. and Saletti, R.
Chromatographic profiles of cyanogen bromide fragments of unreduced human serum albumin on immobilized Cibacron Blue F3G-A 639(1993)341
- Compton, R. N., see Diack, M. 639(1993)129
- Condoret, J. S., see Bellot, J. C. 635(1993)1

- Conforti, F. D., Harris, C. H. and Rinehart, J. T.
High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83
- Conner, A. H., see Holfinger, M. S. 644(1993)383
- Consalvo, A. P., Young, S. D. and Merkle, D. J.
Rapid fluorimetric assay for the detection of the peptidyl α -amidating enzyme intermediate using high-performance liquid chromatography 607(1992)25
- Conte, E. D. and Barry, E. F.
Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349
- Cook, S. E., see Varady, L. 631(1993)107
- Cooke, N., see Guttman, A. 632(1993)171
- Cooney, R. V., see Franke, A. A. 614(1993)43
- Cooper, A. D. and Jefferies, T. M.
Semi-preparative high-performance liquid chromatographic resolution of brompheniramine enantiomers using β -cyclodextrin in the mobile phase 637(1993)137
- Cooper, C. L., see Ma, Y. 608(1992)93
- Cooper, D. A., see Lurie, I. S. 629(1993)143
- Cooper, D. A., see Moore, J. M. 645(1993)273
- Cooper, D. B., see Black, R. M. 637(1993)71
- Cooper, S., see Li, F. 622(1993)187
- Cooper, W. T., see Hsu, C. W. 603(1992)63
- Coquart, V., see Hennion, M.-C. 642(1993)211
- Corasaniti, M. T. and Nisticò, G.
Determination of paraquat in rat brain by high-performance liquid chromatography 643(1993)419
- Corbeau, L., see Baillet, A. 634(1993)251
- Cordeiro, M. L., see McAdams, S. A. 615(1993)148
- Cordel, K. L., see Rimerman, R. A. 619(1993)29
- Cordis, G. A., Maulik, N., Bagchi, D., Engelman, R. M. and Das, D. K.
Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97
- Cornpropst, J. D., see Hamilton, C. L. 612(1993)253
- Cornwell, P. E., Morgan, S. L. and Vaughn, W. H.
Modification of a high-performance liquid chromatographic method for assay of homocysteine in human plasma 617(1993)136
- Corona, G. L., see Paolillo, M. 613(1993)231
- Corradini, C., see Corradini, D. 624(1992)503
- Corradini, D. and Corradini, C.
Separation and determination of 5-hydroxymethyl-2-furaldehyde and 2-furaldehyde in fruit juices by micellar electrokinetic capillary chromatography with direct sample injection 624(1992)503
- Corran, P. H. and Sutcliffe, N.
Identification of gonadorelin (LHRH) derivatives: comparison of reversed-phase high-performance liquid chromatography and micellar electrokinetic chromatography 636(1993)87
- Corran, P. H., see Sutcliffe, N. 636(1993)95
- Cortes, H. J.
Developments in multidimensional separation systems (Review) 626(1992)3
- Cortes, H. J., Larson, J. R. and McGowan, G. M.
Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131
- Cortes, R., see Imaz, C. 631(1993)201
- Coscia, D., see De Vanssay, E. 639(1993)255
- Côté, M., see Li, F. 622(1993)187
- Coutts, R. T., see Freitag, D. G. 616(1993)253
- Coutts, R. T., Su, P., Baker, G. B. and Daneshtalab, M.
Metabolism of imipramine *in vitro* by isozyme CYP2D6 expressed in a human cell line, and observations on metabolite stability 615(1993)265
- Cox, A. P., see O'Mahony, T. K. P. 637(1993)1
- Craft, N. E., see Epler, K. S. 619(1993)37
- Craft, N. E., see Ma, Y. 616(1993)31
- Cramer, H., see Rissler, K. 612(1993)150
- Cramer, S. M., see Gadam, S. D. 630(1993)37
- Cramer, S. M., see Jayaraman, G. 630(1993)53
- Cramers, C. A., see Mol, H. G. J. 630(1993)201
- Creaser, C. S., see Chappell, C. G. 626(1992)223
- Cren, H., Lechevreil, C., Roussel, G., Lemoisson, E. and Goussard, J.
Use of automated smoothing and deconvolution procedures for the determination of human breast cancer estrogen and progesterone receptor isoforms, after high-performance size-exclusion chromatography 615(1993)23
- Crespin, F., Ollivier, E., Elias, R., Maillard, C. and Balansard, G.
High-performance liquid chromatographic determination of the major saponin from *Opilia celtidifolia* Guill. Perr. 644(1993)404
- Crimmins, D. L. and Thoma, R. S.
Semi-automated chromatographic procedure for the isolation of acetylated N-terminal fragments from protein digests 634(1993)241
- Crofton, K. M., see Raymer, J. H. 619(1993)223
- Crommen, J., see Hubert, P. 622(1993)53
- Crooks, P. A., see Gogineni, P. V. 620(1993)83
- Crowe, J. B., see Kaine, L. A. 602(1992)141
- Crowley, C., see James, I. 612(1993)41
- Crowson, A., see Allen, D. W. 629(1993)283
- Crump, K., see Gerostamoulos, J. 617(1993)152
- Cruzado, I. D. and Vigh, G.
Chiral separations by capillary electrophoresis using cyclodextrin-containing gels 608(1992)421
- Cserhádi, T., see Forgács, E. 631(1993)207
- Cserhádi, T. and Forgács, E.
Separation of some chlorophenoxyacetic acid congeners on a porous graphitized carbon column 643(1993)331
- Cuadrado, C., see Muzquiz, M. 607(1992)349
- Cui, Y., Lee, S. T., Olesik, S. V., Flory, W. and Mearini, M.
Retention of C₆₀ and C₇₀ fullerenes on reversed-phase high-performance liquid chromatographic stationary phases 625(1992)131
- Cummings, J., Chirrey, L., Willmott, N., Halbert, G. W. and Smyth, J. F.
Determination of mitomycin C, 2,7-diaminomitosene, 1,2-*cis*- and 1,2-*trans*-1-hydroxy-2,7-diaminomitosene in tumour tissue by high-performance liquid chromatography 612(1993)105

- Cummings, J., French, R. C. and Smyth, J. F.
Application of high-performance liquid chromatography for recognition of covalent nucleic acid modification with anticancer drugs (Review) 618(1993)251
- Cunningham, L. J., see Wilder, D. R. 635(1993)221
- Curti, S., see Bruno, G. 619(1993)167
- Cusatis, P. D., see Chen Jr., E. N. 637(1993)181
- Custer, L. J., see Franke, A. A. 614(1993)43
- Czichocki, G., Müller, P., Vollhardt, D. and Krüger, M.
Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213
- ## D
- Dabek-Zlotorzynska, E. and Dlouhy, J. F.
Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35
- Dabek-Zlotorzynska, E. and Dlouhy, J. F.
Automatic simultaneous determination of anions and cations in atmospheric aerosols by ion chromatography 640(1993)217
- Dachs, J. and Bayona, J. M.
Optimization of a flame photometric detector for supercritical fluid chromatography of organotin compounds 636(1993)277
- Da Col, R., see Silvestro, L. 647(1993)261
- Da Col, R., Silvestro, L., Baiocchi, C., Giacosa, D. and Viano, I.
High-performance liquid chromatographic-mass spectrometric analysis of *cis*-dichlorodiamineplatinum-DNA complexes using an ionspray interface 633(1993)119
- Da Col, R., Silvestro, L., Naggi, A., Torri, G., Baiocchi, C., Moltrasio, D., Cedro, A. and Viano, I.
Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography-mass spectrometry with an atmospheric pressure interface 647(1993)289
- Dadgar, D., see Brent Miller, R. 614(1993)293
- Dadoo, R., see Tsuda, T. 632(1993)201
- D'Agostino, P. A. and Provost, L. R.
Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283
- Dahlgren Caldwell, K.
Jerker Porath: on the occasion of his 70th birthday 604(1992)3
- Daignault, L. G. and Rillema, D. P.
Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3
- Daisey, J. M., see Gundel, L. A. 629(1993)75
- Daldrup, T., see Musshoff, F. 614(1993)1
- Daldrup, T., see Musshoff, F. 619(1993)235
- Dalene, M., Persson, P. and Skarping, G.
Determination of formaldehyde in air by chemisorption on glass filters impregnated with 2,4-dinitrophenylhydrazine using gas chromatography with thermionic specific detection 626(1992)284
- Dalgleish, D. G., see Caldwell, K. D. 604(1992)63
- Dallapiccola, B., see Del Principe, D. 638(1993)277
- Dallas, A. J., see Zhang, Y. 638(1993)43
- Dallas, C. E., see Chen, X. M. 612(1993)199
- Dal Pont, G., see Butler, E. C. V. 609(1992)113
- Dalton, J. T., see Yeh, T.-K. 622(1993)255
- D'Amato, G., see Castello, G. 623(1992)289
- D'Amato, G., see Castello, G. 646(1993)361
- D'Amato, G., see Gerbino, T. C. 609(1992)289
- Damhus, T., see Kirk, O. 606(1992)49
- Damm, J. B. L., Overklift, G. T., Vermeulen, B. W. M., Fluitsma, C. F. and Van Dedem, G. W. K.
Separation of natural and synthetic heparin fragments by high-performance capillary electrophoresis 608(1992)297
- D'Amore, D., see Darmaun, D. 620(1993)33
- Dandeu, J.-P., Rabillon, J., Divanovic, A., Carmi-Leroy, A. and David, B.
Hydrophobic interaction chromatography for isolation and purification of *Equ.c1*, the horse major allergen 621(1993)23
- Daneshtalab, M., see Coutts, R. T. 615(1993)265
- Dang, Q., Sun, Z.- and Ling, D.
Separation of sulphonamides and determination of the active ingredients in tablets by micellar electrokinetic capillary chromatography 603(1992)259
- Dang, Q., Yan, L., Sun, Z.- and Ling, D.
Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363
- Danger, P., see Lacroix, C. 617(1993)285
- Danhof, M., see Mathôt, R. A. A. 620(1993)113
- Daniel, T., see Tambe, A. S. 628(1993)143
- Dankers, J., Groenenboom, M., Scholtis, L. H. A. and Van der Heiden, C.
High-speed supercritical fluid extraction method for routine measurement of polycyclic aromatic hydrocarbons in environmental soils with dichloromethane as a static modifier 641(1993)357
- Danzer, M. H., see Weiss, C. S. 608(1992)325
- Darmaun, D., see Bright, G. M. 621(1993)1
- Darmaun, D., D'Amore, D. and Haymond, M. W.
Determination of glutamine and α -ketoglutarate concentration and specific activity in plasma using high-performance liquid chromatography 620(1993)33
- Das, D. K., see Cordis, G. A. 632(1993)97

- Dasari, G., Prince, I. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXXIV. Physical characterisation of fluidized-bed behaviour of chromatographic packing materials 631(1993)115
- Date, Y., see Tsuruta, Y. 617(1993)213
- Datta, A., see Wagh, J. S. 646(1993)428
- Datta, M. H., see Weiss, C. S. 608(1992)325
- Daugherty, K. E., see Talasek, R. T. 635(1993)265
- Daugherty, K. E., see Talasek, R. T. 639(1993)221
- Dave, Y. K., see Altria, K. D. 633(1993)221
- Daví, M. L., see Bignami, S. 644(1993)341
- Daví, M. L., Bignami, S., Milan, C., Liboni, M. and Malfatto, M. G.
Determination of nitrate in surface waters by ion-exchange chromatography after oxidation of total organic nitrogen to nitrate 644(1993)345
- David, B., see Dandeu, J.-P. 621(1993)23
- David-Eteve, C., see Girin, M. A. 637(1993)206
- Davídková, P., see Kučová, D. 614(1993)340
- Davidson, G., see Jenkins, T. J. 626(1992)53
- Davies, M., Smith, K. D., Harbin, A.-M. and Hounsell, E. F.
High-performance liquid chromatography of oligosaccharide alditols and glycopeptides on a graphitized carbon column 609(1992)125
- Davies, M. J., see Campbell, B. J. 622(1993)137
- Davies, M. J., Smith, K. D., Carruthers, R. A., Chai, W., Lawson, A. M. and Hounsell, E. F.
Use of a porous graphitised carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317
- Davila, A. M., Marchal, R., Monin, N. and Vandecasteele, J. P.
Identification and determination of individual sphorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139
- Davis, J. D., Aarons, L. and Houston, J. B.
Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105
- Davis, V. M. and Bailey Jr., J. E.
Chemical reduction of FD&C Yellow No. 5 to determine combined benzidine 635(1993)160
- Davis, W. M., Coates, J. A., Garcia, K. L., Signorella, L. L. and Delfino, J. J.
Efficient screening method for determining base/neutral and acidic semi-volatile organic priority pollutants in sediments 643(1993)341
- Dawidowicz, A. L., see Choma, I. 641(1993)205
- Dawidowicz, A. L., see Choma, I. 641(1993)211
- Dawkins, H. J. S., see Townsend, K. M. 618(1993)223
- Dawodu, O. F. and Meisen, A.
Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297
- De Aguiar, P. F., see Bourguignon, B. 628(1993)171
- Deakin, A., see Reid, R. W. 614(1993)117
- De Angelis, M., see Legrand, M. 640(1993)251
- De Antonis, K. M., Brown, P. R., Yi, Z. and Maugle, P. D.
High-performance liquid chromatography with ion pairing and electrochemical detection for the determination of the stability of two forms of vitamin C 632(1993)91
- Debackere, M., see Delbeke, F. T. 621(1993)209
- Debaert, M., see Vaccher, C. 645(1993)95
- De Besi, P., see Gelfi, C. 608(1992)333
- De Besi, P., see Gelfi, C. 608(1992)343
- Debets, A. J. J., Mazereeuw, M., Voogt, W. H., Van Iperen, D. J., Lingeman, H., Hupe, K.-P. and Brinkman, U. A. T.
Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151
- De Boer, J., see Genuit, W. J. L. 647(1993)73
- Debowski, J. K. and Gerber, F. A.
Determination of isocyanuric acid and its chlorinated derivatives in swimming pool waters by ion chromatography 644(1993)400
- Debowski, J. K. and Wilde, N. D.
Determination of isocyanuric acid, ammelide, ammeline and melamine in crude isocyanuric acid by ion chromatography 639(1993)338
- De Broe, M. E., see Van Hoof, V. O. 646(1993)235
- De Bruijn, C. H. M. M., see Kuypers, A. W. H. M. 621(1993)149
- De Bruijn, C. H. M. M., see Muijselaar, W. G. H. M. 605(1992)115
- DeCaprio, A. P., see Zhu, M. 628(1993)37
- De Felice, C., see Hayakawa, K. 616(1993)327
- De Felice, C., see Hayakawa, K. 620(1993)25
- De Felice, C., Hayakawa, K., Watanabe, T. and Tanaka, T.
High-performance gel-permeation chromatographic analysis of protein aggregation. Application to bovine carbonic anhydrase 645(1993)101
- Degen, P. H., Risser, F. and Lauber, J. W.
Improved determination of brofaromine by capillary gas chromatography and by utilization of a multi-purpose injector 623(1992)191
- De Groot, A. N. J. A., Vree, T. B., Hekster, Y. A., Baars, A. M., Van den Biggelaar-Martea, M. and Van Dongen, P. W. J.
High-performance liquid chromatography of ergometrine and preliminary pharmacokinetics in plasma of men 613(1993)158
- DeGroot, A. W. and Hamre, W. J.
Characterization of high-molecular-mass polyethylenes by gel permeation chromatography-low-angle laser-light scattering 648(1993)33
- De Haan, W., see Van der Velde, E. G. 626(1992)135
- Dehnhard, M., Claus, R., Hillenbrand, M. and Herzog, A.
High-performance liquid chromatographic method for the determination of 3-methylindole (skatole) and indole in adipose tissue of pigs 616(1993)205
- De Jong, A. L., see Wils, E. R. J. 625(1992)382
- De Jong, A. P. J. M., see Liem, A. K. D. 624(1992)317

- De Jong, A. P. J. M., Liem, A. K. D. and Hoogerbrugge, R.
Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91
- De Jong, A. P. J. M., see Meiring, H. D. 644(1993)357
- De Jong, G. J., see Kientz, C. E. 626(1992)59
- De Jong, G. J., see Kientz, C. E. 626(1992)71
- De Jong, G. J., see Kuijpers, P. H. 625(1992)223
- De Jong, G. J., see Vreuls, J. J. 625(1992)237
- De Kock, J., De Smet, M. and Sneyers, R.
Determination of diclazuril in animal feed by liquid chromatography 606(1992)141
- De Kok, A., Hiemstra, M. and Brinkman, U. A. T.
Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265
- De Koster, C. G., see Van Dongen, W. D. 647(1993)301
- De Kraker, J., see Kaijser, G. P. 614(1993)253
- De la Colina, C., Peña-Heras, A. and Sánchez-Rasero, F.
Carbosulfan in technical concentrates and formulated products. Liquid chromatographic determination with photodiode-array detection 607(1992)203
- De las Heras, F. X. C., see Sinninghe Damsté, J. S. 607(1992)361
- Delattre, L., see Hubert, P. 622(1993)53
- Delbeke, F. T., Landuyt, J. and Debackere, M.
Determination of alclofenac in equine plasma and urine by high-performance liquid chromatography 621(1993)209
- De Leeuw, J. W., see Hartgers, W. A. 606(1992)211
- De Leeuw, J. W., see Sinninghe Damsté, J. S. 607(1992)361
- De Lena, M., see Guerrieri, A. 617(1993)71
- Delfino, J. J., see Davis, W. M. 643(1993)341
- Delgado, C., see Selisko, B. 641(1993)71
- Delgado, M., see Liu, H. 616(1993)105
- Delgado Zamarreño, M. M., Sánchez Pérez, A., Gómez Pérez, G. and Hernández Méndez, J.
High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69
- Del Nozal, M. J., see Bernal, J. L. 607(1992)175
- Del Nozal, M. J., see Bernal, J. L. 607(1992)303
- Del Nozal, M. J., Bernal, J. L., Gomez, F. J., Antolin, A. and Toribio, L.
Post-column derivatization of carbohydrates with ethanolamine-boric acid prior to their detection by high-performance liquid chromatography 607(1992)191
- Del Nozal, M. J., Bernal, J. L., Pampliega, A., Pastor, J. C. and Lopez, M. I.
Determination of 5-fluorouracil in vitreous gel and liquid by high-performance liquid chromatography 607(1992)183
- Del Principe, D., Iampieri, M. P., Germani, D., Menichelli, A., Novelli, G. and Dallapiccola, B.
Detection by capillary electrophoresis of restriction fragment length polymorphism. Analysis of a polymerase chain reaction-amplified product of the DXS 164 locus in the dystrophin gene 638(1993)277
- Del Rosario, A. R., see Dhoot, J. S. 645(1993)178
- DeLuca, S. J., see Murugaverl, B. 633(1993)195
- Delvordre, P., see Regnault, C. 607(1992)159
- Demetriou, D., see Rustemeier, K. 613(1993)95
- Demidov, V. V., see Potaman, V. N. 648(1993)151
- Demirbüker, M., see Andersson, P. E. 641(1993)347
- Demirbüker, M., Häggglund, I. and Blomberg, L. G.
Separation of unsaturated fatty acid methyl esters by packed capillary supercritical fluid chromatography. Comparison of different column packings 605(1992)263
- Deml, M., see Pospichal, J. 638(1993)179
- Demoz, A., Netteland, B., Svardal, A., Mansoor, M. A. and Berge, R. K.
Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251
- Den Engelsman, G., see Meiring, H. D. 644(1993)357
- Deng, Z., Zhang, J. Z., Ellis, A. B. and Langer, S. H.
Iron(III) ion-modified chromatographic silica preparations and characterization 626(1992)159
- Denizli, A., see Tuncel, A. 634(1993)161
- Denoroy, L., see Soucheleau, J. 608(1992)181
- Dentraygues, P., see Pyell, U. 634(1993)169
- De Oliveira, W., see Kaster, J. A. 648(1993)79
- De Paoli, M., Barbina, M. T., Mondini, R., Pezzoni, A., Valentino, A. and Grob, K.
Determination of organophosphorus pesticides in fruits by on-line size-exclusion chromatography-liquid chromatography-gas chromatography-flame photometric detection 626(1992)145
- Deppert, W. R., Normann, J. and Wagner, E.
Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13
- Dernick, R. and Stadler, J.
Foreword 625(1992)1
- De Rooij, F. W. M.
Preface 639(1993)1
- De Ruyter Buitenhuis, A. W., see Wolthers, B. G. 622(1993)33
- Desai, D. M. and Gal, J.
Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215
- Desarnaud, F., Marie, J., Larguier, R., Lombard, C., Jard, S. and Bonnafous, J.-C.
Protein purification using combined streptavidin (or avidin)-Sepharose and thiopropyl-Sepharose affinity chromatography 603(1992)95
- Desbène, P.-L., see Oliveros, L. 606(1992)9
- Desbène, P. L., Rony, C., Desmazières, B. and Jacquier, J. C.
Analysis of alkylaromatic sulphonates by high-performance capillary electrophoresis 608(1992)375
- Desiderio, D. M., see Zhu, X. 616(1993)175

- Desmazières, B., see Desbène, P. L. 608(1992)375
Desmazières, B., see Oliveros, L. 606(1992)9
De Smet, M., see De Kock, J. 606(1992)141
De Smet, M., see Vandenbosch, C. 612(1993)77
Destain, J., see Razafindralambo, H. 639(1993)81
DeStefano, J. J., see Kirkland, J. J. 635(1993)19
DeStefano, J. J., see Yau, W. W. 630(1993)69
Dette, C., see Wätzig, H. 636(1993)31
Deutz, N. E. P., see Van Eijk, H. M. H. 620(1993)143
De V. Albrecht, C. F., see Kruger, P. B. 612(1993)191
De Vanssay, E., Capilla, P., Coscia, D., Do, L., Sternberg, R. and Raulin, F.
Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255
Devaux, P., see Legrand, R. 647(1993)3
Deville, A., see Candito, M. 617(1993)304
De Vries, J. X. and Schmitz-Kummer, E.
Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α -acid glycoprotein chiral stationary phase 644(1993)315
De Vries, N. K., see Duchateau, A. L. L. 603(1992)151
De Waal, A., see Meijer, A. H. 635(1993)237
Dewaele, C., see Baeyens, W. 638(1993)319
De Wilde, O., see Van der Poll, J. M. 643(1993)163
DeWulf, D. W., see Ingalls, S. T. 619(1993)9
Deyl, Z.
Rapid methods for analysis of food and food raw materials (edited by W. Balties) (Book Review) 606(1992)299
Deyl, Z.
Foreword 624(1992)1
Deyl, Z.
Capillary electrophoresis (edited by P. D. Grossman and J. C. Colburn) (Book Review) 637(1993)115
Deyl, Z., see Mikšik, I. 612(1993)57
Deyl, Z., see Mikšik, I. 638(1993)343
Deyl, Z. and Skoda, J.
Foreword 618(1993)1
De Zeeuw, R. A., see Chen, X.-H. 613(1993)289
De Zeeuw, R. A., see Chen, X.-H. 617(1993)147
De Zeeuw, R. A., see Chen, X.-H. 619(1993)137
De Zeeuw, R. A., see Witte, D. T. 641(1993)39
Dhoot, J. S. and Del Rosario, A. R.
Determination and confirmation of benomyl and carbendazim in water using high-performance liquid chromatography and diode array detection 645(1993)178
D'Hulst, A. and Verbeke, N.
Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275
Diack, M., Compton, R. N. and Guiochon, G.
Evaluation of stationary phases for the separation of buckminsterfullerenes by high-performance liquid chromatography 639(1993)129
Díaz, M., Moliner, R. and Ibarra, J. V.
Isolation of the phenolic fraction of coal pyrolysis tars by ion-exchange chromatography 607(1992)353
Díaz-Alejo, N. and Vilanova, E.
Chiral high-performance liquid chromatography and gas chromatography of the stereoisomers of hexyl 2,5-dichlorophenyl phosphoramidate 622(1993)179
Di Biase, S., see Lecoq, A.-F. 638(1993)363
Di Corcia, A., Marchese, S. and Samperi, R.
Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163
Di Corcia, A., Marchese, S. and Samperi, R.
Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175
Di Corcia, A., see Marcomini, A. 644(1993)59
Diederich, F., see Herren, D. 644(1993)188
Diez, M. J., see Fernández, N. 619(1993)143
Diez, M. T., see Resines, J. A. 607(1992)199
Dijkstra, H., see Wieling, J. 629(1993)181
Dilks Jr., C. H., see Kirkland, J. J. 635(1993)19
Dill, D. N. and Eilbacher, B.
Gas chromatographic-mass spectrometric method for the determination of bifemelane in human plasma at therapeutic doses 613(1993)150
Di Marco, M. P., Evans, C. A., Dixit, D. M., Brown, W. L., Siddiqui, M. A., Tse, H. L. A., Jin, H., Nguyen-Ba, N. and Mansour, T. S.
High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues 645(1993)107
Di Mario, U., see Previti, M. 605(1992)221
Dimov, N. and Ivanov, C.
High-performance liquid chromatographic separation of intermediate products and potential impurities by the synthesis of roxatidin 625(1992)368
Di Muccio, A., Dommarco, R., Attard Barbini, D., Santilio, A., Girolimetti, S., Ausili, A., Ventriglia, M., Generali, T. and Vergori, L.
Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363
DiNunzio, J. E.
Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97
DiPiro, J. T., see Brunner, L. J. 622(1993)98
Dipple, A., see Peltonen, K. 623(1992)247
Dippold, C. S., see Mallinger, A. G. 614(1993)67
Dirschlmayer, A., see Lindner, H. 608(1992)211
Divanovic, A., see Dandeu, J.-P. 621(1993)23
Dixit, D. M., see Di Marco, M. P. 645(1993)107
Dixon, P. A. F., see Babalola, C. P. 616(1993)151
Djordjevic, N., see Liu, G. 633(1993)25
Djordjevic, N. M., Stegehuis, D., Liu, G. and Erni, F.
Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135
Dlouhy, J. F., see Dabek-Zlotorzynska, E. 638(1993)35
Dlouhy, J. F., see Dabek-Zlotorzynska, E. 640(1993)217
Do, D. D., see Hu, S. 646(1993)31
Do, D. D., see Hu, S.-G. 605(1992)175
Do, D. D., see Nguyen, T. S. 603(1992)27
Do, L., see De Vanssay, E. 639(1993)255

- Dobberpuhl, D., see Johnson, D. C. 640(1993)79
- Dobrowolska, G., see Muszyńska, G. 604(1992)19
- Dobrowolski, R., see Choma, I. 641(1993)205
- Doguet, L., see Fuchs, G. 623(1992)329
- Doig, M. T. and Smiley, J. W.
Direct injection assay of angiotensin-converting enzyme by high-performance liquid chromatography using a shielded hydrophobic phase column 613(1993)145
- Dolan, J. W.
Savant computer-based instruction series in HPLC: Troubleshooting high performance liquid chromatography (by D. Saunders) (Software Review) 644(1993)213
- Dolgonosov, A. M. and Krachak, A. N.
Highly selective ion chromatographic determination of ammonium ions in waters with a suppressor as postcolumn reactor 640(1993)351
- Dominguez, A., see Blanco, C. G. 607(1992)295
- Domino, E. F., see Stetson, P. L. 620(1993)260
- Dommarco, R., see Di Muccio, A. 643(1993)363
- Donald, P. R., see Seifart, H. I. 619(1993)285
- Donaldson, R. M., see Greene, J. C. 640(1993)303
- Donard, O. F. X.
Trace metal analysis and speciation (Journal of Chromatography Library, Vol. 47) (edited by I. S. Krull) (Book Review) 635(1993)351
- Dong, M.W., see Grosser, Z.A. 642(1993)75
- Donnelly, J. R., Abdel-Hamid, M. S., Jeter, J. L. and Gurka, D. F.
Application of gas chromatographic retention properties to the identification of environmental contaminants 642(1993)409
- Doornbos, D. A., see Coenegracht, P. M. J. 631(1993)145
- Doornbos, D. A., see Steijger, O. M. 615(1993)97
- Doornbos, D. A., see Wieling, J. 629(1993)181
- Doornbos, D. A., see Wieling, J. 635(1993)195
- Doretto, L., see Sturaro, A. 628(1993)316
- Doretto, L., see Sturaro, A. 643(1993)435
- Dorizzi, R., see Tagliaro, F. 638(1993)303
- Doroudian, A., Yeleswaram, K., Rurak, D. W., Abbott, F. S. and Axelson, J. E.
Sensitive high-performance liquid chromatographic method for direct separation of labetalol stereoisomers in biological fluids using an α_1 -acid glycoprotein stationary phase 619(1993)79
- Dorsey, J. G., see Cole, S. R. 635(1993)177
- Dorsey, J. G., see Hsieh, M.-M. 631(1993)63
- Dorsey, J. G., see Zhao, Z. 615(1993)83
- Dorsey, T. F., see Eganhouse, R. P. 628(1993)81
- Dostál, M., see Ventura, K. 642(1993)379
- Dotta, F., see Previti, M. 605(1992)221
- Douma, B. R. K., see Welling-Wester, S. 646(1993)37
- Dousset, B., see Straczek, J. 620(1993)1
- Dovichi, N. J., see Figeys, D. 645(1993)311
- Dovichi, N. J., see Harke, H. R. 608(1992)143
- Dovichi, N. J., see Zhao, J.-Y. 608(1992)117
- Dovichi, N. J., see Zhao, J. Y. 608(1992)239
- Dowd, V. and Yon, R. J.
Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a "concerted cluster" model of multivalent affinity 627(1992)145
- Dowling, M. H., see Paddle, B. M. 648(1993)373
- Dowling, T. M. and Uden, P. C.
Alkyltin speciation in sea water with on-line hydride conversion and gas chromatography-atomic emission detection 644(1993)153
- Doyle, E., see Moore, T. D. 619(1993)172
- Drandarov, K. and Hais, I. M.
Thin-layer chromatography of the positional isomers of some 1,2,3,4-tetrahydro-2-naphthol and 3-amino-1,2,3,4-tetrahydro-2-naphthol derivatives 628(1993)103
- Dratcu, L., see Keating, J. 615(1993)237
- Drdák, M., see Karovičová, J. 638(1993)241
- Dréano, Y., see Berthou, F. 616(1993)117
- Drelon, E., see Muller, N. 616(1993)261
- Dressler, M.
Detectors for capillary chromatography (edited by H.H. Hill and D.G. McMinn) (Book Review) 646(1993)442
- Dreux, M., see Brossard, S. 623(1992)323
- Dreux, M., see Camel, V. 605(1992)95
- Dreux, M., see Lafosse, M. 623(1992)277
- Dreux, M., see Morin, P. 628(1993)153
- Dreux, M., see Morin, P. 628(1993)161
- Drewe, J. and Küsters, E.
High-performance liquid chromatographic method for the enantiomeric separation of the chiral metabolites of midazolam 609(1992)395
- Driscoll, J. N. and Atwood, E. S.
Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435
- Driss, M. R., Hennion, M. -C. and Bouguerra, M. L.
Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352
- Drnevich, D. and Vary, T. C.
Analysis of physiological amino acids using dabsyl derivatization and reversed-phase liquid chromatography 613(1993)137
- Dross, K., Sonntag, C. and Mannhold, R.
On the precise estimation of R_M values in reversed-phase thin-layer chromatography including aspects of pH dependence 639(1993)287
- Drouin, J. E. and Broquaire, M.
Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19
- Drummer, O. H., see Gerostamoulos, J. 617(1993)152
- Drummer, O. H., see McIntyre, I. M. 621(1993)215
- Dua, V. K., Sarin, R. and Prakash, A.
Determination of quinine in serum, plasma, red blood cells and whole blood in healthy and *Plasmodium falciparum* malaria cases by high-performance liquid chromatography 614(1993)87
- Duan, G., see Nakashima, K. 619(1993)1
- Dubin, P. L., see Edwards, S. L. 648(1993)3
- Dubin, P. L., Edwards, S. L., Mehta, M. S. and Tomalia, D.
Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51
- Dubost, J., see Guichard, J. 612(1993)269

- Dubrovčáková, E., Gaš, B., Vacik, J. and Smolková-Keulemansová, E.
Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337
- Duchateau, A. L. L., Heemels, G. M. P., Maesen, L. W. and De Vries, N. K.
Separation of benz[*f*]isoindole derivatives of amino acid and amino acid amide enantiomers on a β -cyclodextrin-bonded phase 603(1992)151
- Duchateau, A. L. L., Jacquemin, N. M. J., Straatman, H. and Noorduyn, A. J.
Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29
- Duchateau, A. L. L., Knuts, H., Boesten, J. M. M. and Guns, J. J.
Enantioseparation of amino compounds by derivatization with *o*-phthalaldehyde and D-3-mercapto-2-methylpropionic acid 623(1992)237
- Duchateau, A. L. L., see Van Leuken, R. G. J. 647(1993)131
- Duché, J.-C., see Hervé, F. 615(1993)47
- Ducros, V., see Faure, H. 616(1993)1
- Dudley, J. L., see Cohen, A. S. 638(1993)293
- Duez, P., see Schenkel, E. 625(1992)289
- Duine, J. A., see Geerlof, A. 648(1993)119
- Duineveld, C. A. A., see Wieling, J. 629(1993)181
- Duinker, J. C., see Kannan, N. 642(1993)425
- Dumartin, C., see Gimenez, F. 619(1993)161
- Duncan, G. F., see Willey, T. A. 621(1993)231
- Dunne, C., Meaney, M., Smyth, M. and Tuinstra, L. G. M. T.
Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229
- Durand, G., see Barceló, D. 647(1993)271
- Durand, G., Bouvot, V. and Barceló, D.
Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques 607(1992)319
- Durand, G., Gille, P., Fraisse, D. and Barceló, D.
Comparison of gas chromatographic-mass spectrometric methods for screening of chlorotriazine pesticides in soil 603(1992)175
- Durand, J., see Meng, Q. C. 614(1993)19
- Durhan, E., Lukasewycz, M. and Baker, S.
Alternatives to methanol-water elution of solid-phase extraction columns for the fractionation of high log K_{ow} organic compounds in aqueous environmental samples 629(1993)67
- Düring, K.
Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105
- Duro, G., Izzo, V. and Barbieri, R.
Methods for recovering nucleic acid fragments from agarose gels (Review) 618(1993)95
- Duszczyk, K., see Sybilska, D. 625(1992)349
- Dutoit, J.-C., see Reddy, K. S. 609(1992)229
- Dutton, W. R., see Hull, Jr., C. J. 633(1993)300
- Duval, M., see Leblanc, Y. 633(1993)185
- E**
- Eadie, M. J., see Schramm, T. M. 616(1993)39
- Eakins, M. N., see White, G. 625(1992)157
- Eap, C. B., see Reymond, P. 616(1993)221
- Ebdon, L., see Pretorius, W. G. 646(1993)369
- Eckert-Tilotta, S., see Hawthorne, S. B. 642(1993)301
- Eder, K., Reichlmayr-Lais, A. M. and Kirchgessner, M.
Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55
- Edmonds, B. K. and Nierenberg, D. W.
Serum concentrations of retinol, *d*- α -tocopherol and β -carotene: effects of storage at -70°C for five years 614(1993)169
- Edouard, S., see Le Moing, J. P. 614(1993)333
- Edwards, C., see Poon, G. K. 628(1993)215
- Edwards, D. S., see Green, J. M. 635(1993)203
- Edwards, J. A., see Thomas, L. C. 627(1992)193
- Edwards, J. A., see Thomas, L. C. 639(1993)215
- Edwards, S. L., see Dubin, P. L. 635(1993)51
- Edwards, S. L. and Dubin, P. L.
pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3
- Eeckhoutte, C., see Alvinerie, M. 612(1993)115
- Eganhouse, R. P., Dorsey, T. F., Phinney, C. S. and Westcott, A. M.
Determination of C_6 - C_{10} aromatic hydrocarbons in water by purge-and-trap capillary gas chromatography 628(1993)81
- Eggers, C. M., see Liu, H. 616(1993)105
- Ehwald, R., see Selisko, B. 641(1993)71
- Eibl, M. M., see Leibl, H. 639(1993)51
- Eickhoff, W. M., see Eisenberg, E. J. 621(1993)110
- Eilbacher, B., see Dill, D. N. 613(1993)150
- Eisenberg, E. J. and Eickhoff, W. M.
Determination of etoposide in blood by liquid chromatography with electrochemical detection 621(1993)110
- Ekdahl, A., see Abrahamsson, K. 643(1993)239
- Ekeberg, D., see Jablonska, A. 647(1993)341
- Ekman, P., see Muszyńska, G. 604(1992)19
- El-Hamdy, A. H. and Christie, W. W.
Preparation of methyl esters of fatty acids with trimethylsulphonium hydroxide—an appraisal 630(1993)438
- El-Kak, A., Manjini, S. and Vijayalakshmi, M. A.
Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29
- Elder, J. L., see Taylor, W. G. 645(1993)393
- Elder, R. C., see Zhao, Z. 615(1993)83
- Eleuteri, A. M., see Fioretti, E. 617(1993)308
- Elias, R., see Crespín, F. 644(1993)404
- Eliseev, A., see Nardi, A. 638(1993)247
- Elix, J. A., see Feige, G. B. 646(1993)417

- Elkins, J. W., see Sturges, W. T. 642(1993)123
- Eller, T. D., Walle, U. K. and Walle, T.
Immunoaffinity isolation of the sulfate conjugate of 4'-hydroxypropranolol from plasma 612(1993)320
- Elliott, C. T., see Hewitt, S. A. 639(1993)185
- Ellis, A. B., see Deng, Z. 626(1992)159
- Ellis, J. S., Monkman, S. C., Seymour, R. A. and Idle, J. R.
Determination of nifedipine in gingival crevicular fluid: a capillary gas chromatographic method for nifedipine in microlitre volumes of biological fluid 621(1993)95
- Elmroth, I., Fox, A. and Larsson, L.
Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93
- Elo, H., see Lukkari, P. 608(1992)317
- El Rassi, Z., see Cai, J. 608(1992)31
- El Rassi, Z., see Nashabeh, W. 632(1993)157
- El Rassi, Z., see Yu, J. 631(1993)91
- Elrod, Jr., L., Golich, T. G. and Morley, J. A.
Determination of benzalkonium chloride in eye care products by high-performance liquid chromatography and solid-phase extraction or on-line column switching 625(1992)362
- Elsewi, A. A., see Liu, M. H. 639(1993)151
- Elshof, F., see Wolthers, B. G. 622(1993)33
- Elsing, B. and Blaschke, G.
Achiral and chiral high-performance liquid chromatographic determination of tramadol and its major metabolites in urine after oral administration of racemic tramadol 612(1993)223
- Emborg, C., see Hansen, H. A. 626(1992)171
- Emery, A. P., Chesler, S. N. and MacCrehan, W. A.
Recovery of diesel fuel from clays by supercritical fluid extraction-gas chromatography 606(1992)221
- Emmer, A., see Jansson, M. 626(1992)310
- Emmrich, M., Kaiser, M., Rüden, H. and Sollinger, S.
Determination of RDX, 2,4,6-trinitrotoluene and other nitroaromatic compounds by high-performance liquid chromatography with photodiode-array detection 645(1993)89
- Emmrich, M., see Sollinger, S. 609(1992)297
- Engel, R., see Leenheers, L. H. 613(1993)89
- Engelhardt, U. H., see Finger, A. 624(1992)293
- Engelman, R. M., see Cordis, G. A. 632(1993)97
- Engels, W., see Van Haaster, C. M. C. J. 617(1993)233
- Engstrom, A., see Nice, E. 646(1993)159
- Ensing, K., see Chen, X.-H. 613(1993)289
- Entian, K.-D., see Jacob, L. R. 625(1992)47
- Eo, Y., see Hong, J. 639(1993)261
- Epler, K. S., Ziegler, R. G. and Craft, N. E.
Liquid chromatographic method for the determination of carotenoids, retinoids and tocopherols in human serum and in food 619(1993)37
- Erber, W., see Leibl, H. 639(1993)51
- Erbersdobler, H. F., see Hartkopf, J. 635(1993)151
- Erdtsieck-Ernste, E. B. H. W., see Botterblom, M. H. A. 613(1993)121
- Eremeeva, T. E. and Bykova, T. O.
High-performance size-exclusion chromatography of wood hemicelluloses on a poly(2-hydroxyethyl methacrylate-co-ethylene dimethacrylate) column with sodium hydroxide solution as eluent 639(1993)159
- Ericsson, Ö., see Aden Abdi, Y. 612(1993)336
- Eriksson, B.-M.
Determination of catecholamines in rat heart tissue and plasma samples by liquid chromatography with electrochemical detection, by B.-M. Eriksson and B.-A. Persson, *J. Chromatogr.*, 228 (1982) 143 612(1993)1
- Eriksson, K. -O., see Wirth, H. -J. 646(1993)129
- Erlandsson, P., see Wännman, H. 603(1992)121
- Erney, D. R., Gillespie, A. M., Gilvydis, D. M. and Poole, C. F.
Explanation of the matrix-induced chromatographic response enhancement of organophosphorus pesticides during open tubular column gas chromatography with splitless or hot on-column injection and flame photometric detection 638(1993)57
- Erni, F., see Bouissel, S. 630(1993)307
- Erni, F., see Djordjevic, N. M. 629(1993)135
- Erni, F., see Keller, H. R. 641(1993)1
- Erni, F., see Liu, G. 633(1993)25
- Ernst, M., see Schumann, H. 640(1993)241
- Escott-Watson, P. L. and Marais, J. P.
Determination of alkali-soluble phenolic monomers in grasses after separation by thin-layer chromatography 604(1992)290
- Esmans, E. L., see Lemièrre, F. 647(1993)211
- Esposito, E., see Gorbunov, N. 619(1993)133
- Estienne, J., see Mouly, P. 634(1993)129
- Estler, C.-J., see Schmitz, G. 620(1993)158
- Estrella Legaz, M., Pedrosa, M. M., Mateos, J. L., Caffaro, S. V. and Vicente, C.
High-performance liquid chromatographic determination of acridine orange in nucleic acids isolated from dye-treated *Himantormia lugubris* thalli 607(1992)245
- Etxeberría, A., Alfageme, J., Uriarte, C. and Iruin, J. J.
Inverse gas chromatography in the characterization of polymeric materials 607(1992)227
- Eue, S., see Hartleb, J. 622(1993)161
- Evans, C. A., see Di Marco, M. P. 645(1993)107
- Evans, J. M., Smith, R. J. and Stemp, G.
Separation of the enantiomers of some potassium channel activators using an α_1 -acid glycoprotein column 623(1992)163
- Evans, K. P. and Beaumont, G. L.
Role of capillary electrophoresis in specialty chemical research 636(1993)153
- Evans, K. P., see Williams, S. J. 629(1993)379
- Evans, K. P., see Williams, S. J. 636(1993)39
- Evans, M. B.
High speed narrow bore capillary gas chromatography (by E. van Es) (Book Review) 645(1993)371
- Evans, P.C., Liu, L. and Harding, J.E.
Solid-phase separation of ^{14}C -labelled urea and aminoisobutyric acid for membrane transport studies 614(1993)148

- Everaerts, F. M.
The dynamics of electrophoresis (by R. A. Mosher, D. A. Galville and W. Thormann) (Book Review) 637(1993)113
- Everaerts, F. M., see Ackermans, M. T. 606(1992)229
- Everaerts, F. M., see Kuypers, A. W. H. M. 621(1993)149
- Everaerts, F. M., see Muijselaar, W. G. H. M. 605(1992)115
- Everaerts, F. M., see Verheggen, T. P. E. M. 638(1993)147
- Evrard, B., see Hubert, P. 622(1993)53
- Excoffier, J.-L., Joseph, M., Robinson, J. J. and Sheehan, T. L.
Faster quantitative evaluation of high-performance liquid chromatography-ultraviolet diode-array data by multicomponent analysis 631(1993)15
- Excoffier, J. L., see Keller, H. R. 641(1993)1
- Ezoe, T., see Hayakawa, K. 620(1993)25
- F**
- Fabri, L., Maruta, H., Muramatsu, H., Muramatsu, T., Simpson, R. J., Burgess, A. W. and Nice, E. C.
Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213
- Fabri, L., see Nice, E. 646(1993)159
- Fadeev, A. Y., see Mingalyov, P. G. 646(1993)267
- Fairlie, D., see Alewood, P. F. 646(1993)185
- Falconnet, J.-B., see Legrand, R. 647(1993)3
- Fales, H. M., see Ito, Y. 625(1992)177
- Fales, H. M., see Shinomiya, K. 644(1993)215
- Fanali, S., see Klepárník, K. 638(1993)283
- Fanali, S., see Nardi, A. 638(1993)247
- Fanali, S., see Schützner, W. 639(1993)375
- Fang, J. and Gorrod, J. W.
High-performance liquid chromatographic method for the detection and quantitation of haloperidol and seven of its metabolites in microsomal preparations 614(1993)267
- Fang, J.-D., see Yeh, C.-F. 630(1993)275
- Farid, K. Z., see Lantz, R. J. 614(1993)175
- Farinotti, R., see Fernandez, C. 617(1993)271
- Farinotti, R., see Gimenez, F. 619(1993)161
- Farinotti, R., see Traoré, F. 648(1993)111
- Farkas, G., Irgens, L. H., Quintero, G., Beeson, M. D., Al-Saeed, A. and Vigh, G.
Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67
- Farnen, R. H., see Willey, T. A. 621(1993)231
- Farran, A., see Aguilar, M. 635(1993)127
- Fatima, N., see Mohammad, A. 642(1993)445
- Fauler, J., see Tsikas, D. 622(1993)1
- Faure, H., Incardona, M.-F., Boujet, C., Cadet, J., Ducros, V. and Favier, A.
Gas chromatographic-mass spectrometric determination of 5-hydroxymethyluracil in human urine by stable isotope dilution 616(1993)1
- Favier, A., see Faure, H. 616(1993)1
- Favretto, D., see Romanello, M. 616(1993)167
- Fay, L. B., see Stämpfli, A. A. 617(1993)197
- Fay, R., see Lamiable, D. 620(1993)273
- Federici, F., see Castellani, L. 602(1992)21
- Feenstra, M. G. P., see Botterblom, M. H. A. 613(1993)121
- Feibush, B., see Zhou, F.-X. 609(1992)103
- Feibush, B., see Zhou, F.-X. 619(1993)93
- Feibush, B., see Zhou, F.-X. 648(1993)357
- Feige, G. B., Lumbsch, H. T., Huneck, S. and Elix, J. A.
Identification of lichen substances by a standardized high-performance liquid chromatographic method 646(1993)417
- Fejlbjerg, M., see Welling-Wester, S. 646(1993)37
- Feld, T., see Nowotnik, D. P. 630(1993)105
- Felden, F., see Lambert, D. 608(1992)311
- Felden, F., see Straczek, J. 620(1993)1
- Feldman, S., see Brunner, L. J. 622(1993)98
- Felinger, A. and Guiochon, G.
Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35
- Félix, G., see Pyell, U. 634(1993)169
- Félix, G. and Zhang, T.
Chiral packing materials for high-performance liquid chromatographic resolution of enantiomers based on substituted branched polysaccharides coated on silica gel 639(1993)141
- Fell, A. F., see Castledine, J. B. 626(1992)127
- Fellegvári, I., see Kalghatgi, K. 604(1992)47
- Fellows, R. J., see Harvey, S. D. 605(1992)227
- Fellows, R. J., see Harvey, S. D. 630(1993)167
- Feltl, L., see Mňuk, P. 623(1992)297
- Felton, J. S., see Knize, M. G. 624(1992)253
- Feng, W. Y., see Lu, D. S. 623(1992)55
- Feng, Z., Gollamudi, R., Han, G., Tang, Y. and Armstrong, D. W.
Chiral separation of nipecotic acid amides 609(1992)187
- Fenton, M.
Chromatographic separation of cholesterol in foods (Review) 624(1992)369
- Fenwick, G. R., see Muzquiz, M. 607(1992)349
- Fernandez, C., Gimenez, F., Baune, B., Maradeix, V., Thuillier, A. and Farinotti, R.
Determination of the enantiomers of zopiclone and its two chiral metabolites in urine using an automated coupled achiral-chiral chromatographic system 617(1993)271
- Fernández, N., García, J. J., Díez, M. J., Terán, M. T. and Sierra, M.
Rapid high-performance liquid chromatographic assay of ethinyloestradiol in rabbit plasma 619(1993)143

- Fernandez, P. and Bayona, J. M.
Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141
- Fernández-López, J. A., see Almela, L. 607(1992)215
- Fernández-Martín, F., see Hierro, M. T. G. 607(1992)329
- Fernández Pereira, C.
Application of ion chromatography to the determination of inorganic anions in foodstuffs (Review) 624(1992)457
- Ferreres, F., see Tomás-Barberán, F. A. 634(1993)41
- Ferretti, A. and Flanagan, V. P.
Assay of urinary 2,3-dinor-6-oxo prostaglandin F_{1α} by gas chromatography-tandem mass spectrometry 622(1993)109
- Ferrier, D., see Baillet, A. 634(1993)251
- Fesser, A. C. E., see Nachilobe, P. 616(1993)243
- Feste, A. S. and Khan, I.
Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7
- Feste, A. S. and Khan, I.
Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129
- Fetzer, J. C. and Biggs, W. R.
Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319
- Fetzer, J. C., see Jinno, K. 648(1993)71
- Fiaschi, A. I., see Cerretani, D. 614(1993)103
- Fichera, M., see Compagnini, A. 639(1993)341
- Fiehrer, K. M., see Thomas, L. C. 627(1992)193
- Fiehrer, K. M., see Thomas, L. C. 639(1993)215
- Figeys, D. and Dovichi, N. J.
Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311
- Fingas, M., see Wang, Z. 637(1993)145
- Fingas, M., see Wang, Z. 641(1993)125
- Finger, A., Kuhr, S. and Engelhardt, U. H.
Chromatography of tea constituents (Review) 624(1992)293
- Fioretti, E., Eleuteri, A. M., Angeletti, M. and Ascoli, F.
High-performance liquid chromatographic separation of aprotinin-like inhibitors and their determination in very small amounts 617(1993)308
- Fischbeck, G., see Schewes, R. 641(1993)89
- Fischer, A. M., see Sinniger, V. 615(1993)215
- Fiset, C., Philippon, F., Gilbert, M. and Turgeon, J.
Stereoselective high-performance liquid chromatographic assay for the determination of sotalol enantiomers in biological fluids 612(1993)231
- Fisher, D., see Selisko, B. 641(1993)71
- Fisher, D., see Walter, H. 609(1992)219
- Fisher, D. H. and Bourque, A. J.
Quantification of amphetamine in urine: solid-phase extraction, polymeric-reagent derivatization and reversed-phase high-performance liquid chromatography 614(1993)142
- Fisher, S. J., Alexander, R. and Kagi, R. I.
Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205
- Fisichella, S., see Compagnini, A. 639(1993)341
- Fitos, I., Visy, J., Simonyi, M. and Hermansson, J.
Chiral high-performance liquid chromatographic separations of vinca alkaloid analogues on α_1 -acid glycoprotein and human serum albumin columns 609(1992)163
- Fittkau, S., see Peters, K. 648(1993)91
- Fitzgerald, M., see Thomas, S. B. 623(1992)390
- Flachs, H., see Lemnge, M. M. 613(1993)340
- Flanagan, V. P., see Ferretti, A. 622(1993)109
- Fleming, S. C., Kynaston, J. A., Laker, M. F., Pearson, A. D. J., Kapembwa, M. S. and Griffin, G. E.
Analysis of multiple sugar probes in urine and plasma by high-performance anion-exchange chromatography with pulsed electrochemical detection. Application in the assessment of intestinal permeability in human immunodeficiency virus infection 640(1993)293
- Fliniaux, M.-A., Manceau, F. and Jacquin-Dubreuil, A.
Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193
- Floclin, P., see Walenius, M. 604(1992)5
- Flory, W., see Cui, Y. 625(1992)131
- Floyd, T. R.
Chemical characterization of cellulose acetate by non-exclusion liquid chromatography 629(1993)243
- Fluittsma, C. F., see Damm, J. B. L. 608(1992)297
- Fodor-Csorba, K.
Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353
- Foglia, T. A., Silbert, L. S. and Vail, P. D.
Peroxides. XII. Gas-liquid and high-performance liquid chromatographic analysis of aliphatic hydroperoxides and dialkyl peroxides 637(1993)157
- Fong, C. H., see Ohta, H. 639(1993)295
- Font, G., see Mañes, J. 642(1993)195
- Font, G., Mañes, J., Moltó, J. C. and Picó, Y.
Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135
- Fontaine-Aupart, M. P., see Bihoreau, N. 612(1993)49
- Fook Sheung, C. T. C., see Buick, A. R. 617(1993)65
- Foret, F., Szoko, E. and Karger, B. L.
On-column transient and coupled column isotachophoretic preconcentration of protein samples in capillary zone electrophoresis 608(1992)3
- Forgács, E., see Cserhádi, T. 643(1993)331
- Forgács, E., Valkó, K., Cserhádi, T. and Magyar, K.
Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs 631(1993)207
- Foriers, A., see Jimidar, M. 636(1993)179
- Forman, L. J., see Liu, H. 616(1993)105

- Fornaris, M., see Rop, P. P. 615(1993)357
- Fornstedt, T.
Peak distortion effects of suramin due to large system peaks in bioanalysis using ion-pair adsorption chromatography 612(1993)137
- Fornstedt, T. and Westerlund, D.
Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315
- Forsyth, N., see Tredget, E. E. 612(1993)7
- Foster, G. D., see McEachern, P. R. 632(1993)119
- Foster, R. T., see Freitag, D. G. 616(1993)253
- Foster, R. T., see Lemko, C. H. 619(1993)330
- Fóti, G., Belvito, M. L., Alvarez-Zepeda, A. and Kováts, E.
Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1
- Foti, S., see Compagnini, A. 639(1993)341
- Foulger, B. E. and Simmonds, P. G.
Ambient temperature gas purifier suitable for the trace analysis of carbon monoxide and hydrogen and the preparation of low-level carbon monoxide calibration standards in the field 630(1993)257
- Fox, A., see Elmroth, I. 628(1993)93
- Fox, A. R. and McLoughlin, D. A.
Rapid, sensitive high-performance liquid chromatographic method for the quantification of promethazine in human serum with electrochemical detection 631(1993)255
- Fracassi, F., see Moretti, G. 616(1993)291
- Fraisse, D., see Durand, G. 603(1992)175
- Fraisse, L., see Beaudouin, C. 613(1993)51
- Franco-Fraguas, L. and Batista-Viera, F.
Thiophilic interaction chromatography of sweet potato β -amylase 604(1992)103
- Franke, A. A., Custer, L. J. and Cooney, R. V.
Synthetic carotenoids as internal standards for plasma micronutrient analyses by high-performance liquid chromatography 614(1993)43
- Franke, J.-P., see Chen, X.-H. 613(1993)289
- Franke, J.-P., see Chen, X.-H. 617(1993)147
- Franke, J.-P., see Chen, X.-H. 619(1993)137
- Franke, J.-P., see Witte, D. T. 641(1993)39
- Franssen, E. J. F., see Kostianen, R. 647(1993)361
- Franzelius, C. and Besserer, K.
Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162
- Fraser, P. D., Albrecht, M. and Sandmann, G.
Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265
- Frattoni, C., see Bicchi, C. 609(1992)305
- Frattoni, M., see Ciccio, P. 643(1993)55
- Frederiksen, R. B., see Bergholdt, A. 644(1993)412
- Frederique, D. E., see Wenzel, T. J. 637(1993)187
- Freitag, D. G., Foster, R. T., Coutts, R. T. and Pasutto, F. M.
High-performance liquid chromatographic method for resolving the enantiomers of mexiletine and two major metabolites isolated from microbial fermentation media 616(1993)253
- French, R. C., see Cummings, J. 618(1993)251
- Frenkel, K. and Klein, C. B.
Methods used for analyses of "environmentally" damaged nucleic acids (Review) 618(1993)289
- Frenz, J., see Cacia, J. 634(1993)229
- Frey, D. D., Van de Water, R. and Zhang, B.
Dispersion in stacked-membrane chromatography 603(1992)43
- Friedl, W., see Kennedler, E. 608(1992)161
- Friedman, K., see Rabin, S. 640(1993)97
- Fritz, J. S. and Junk, G. A.
Use of macroreticular resins in the analysis of water for trace organic contaminants, by G. A. Junk, J. J. Richard, M. D. Grieser, D. Witiak, J. L. Witiak, M. D. Arguello, R. Vick, H. J. Svec, J. S. Fritz and G. V. Calder, *J. Chromatogr.*, 99 (1974) 745-762 (Chromatographic Classic) 625(1992)87
- Fritz, J. S., see Morris, J. 602(1992)111
- Fritz, J. S., see Qian, Y. 602(1992)103
- Fritz, J. S., see Schmidt, L. 640(1993)145
- Fritz, J. S., see Schmidt, L. 641(1993)57
- Fritz, J. S., see Shi, Y. 640(1993)473
- Frölich, J. C., see Tsikas, D. 622(1993)1
- Fronticelli, C., see Chiancone, E. 604(1992)117
- Frost, P., Camenzind, R., Mägert, A., Bonjour, R. and Karlaganis, G.
Organic micropollutants in Swiss sewage sludge 643(1993)379
- Frye, R. F., see Stiff, D. D. 613(1993)127
- Fu, C., Xu, H. and Wang, Z.
Sensitive assay system for nitrosamines utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 634(1993)221
- Fu, P. P., Zhang, Y., Mao, Y.-L., Von Tungeln, L. S., Kim, Y., Jung, H. and Jun, M.-J.
Relationships of structures of nitro-polycyclic aromatic hydrocarbons with high-performance liquid chromatography retention order 642(1993)107
- Fu, R., see Wang, H. 609(1992)414
- Fuchs, G., Doguet, L., Barth, D. and Perrut, M.
Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329
- Fuchs, M., see Cheng, Y.-F. 608(1992)109
- Fujii, N., see Funakoshi, S. 638(1993)21
- Fujima, H., see Haginaka, J. 620(1993)199
- Fujima, H., see Haginaka, J. 631(1993)183
- Fujimura, N., see Nishi, H. 633(1993)89
- Fukuda, H., see Funakoshi, S. 638(1993)21
- Fukui, S., Hanasaki, Y. and Ogawa, S.
High-performance liquid chromatographic determination of methanesulphinic acid as a method for the determination of hydroxyl radicals 630(1993)187
- Fukui, S., see Ogawa, S. 643(1993)221

- Fukunaga, K., Suzuki, T. and Takama, K.
Highly sensitive high-performance liquid chromatography for the measurement of malondialdehyde in biological samples 621(1993)77
- Fukushima, M., see Tanikawa, M. 617(1993)163
- Fukuyama, T., see Nishi, H. 633(1993)89
- Funakoshi, S., Fukuda, H. and Fujii, N.
Affinity purification method using a reversible biotinylating reagent for peptides synthesized by the solid-phase technique 638(1993)21
- Fung, H.-L., see Bachert, E. L. 619(1993)336
- Fuping, H., Haddad, P. R., Jackson, P. E. and Carnevale, J.
Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187
- Furr, H. C., see Ma, Y. 616(1993)31
- Furton, K. G., Jolly, E. and Pentzke, G.
Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33
- Furton, K. G., Jolly, E. and Rein, J.
Variables affecting the supercritical fluid extraction of analytes from octadecylsilane solid-phase sorbents 629(1993)3
- Furusawa, M., see Kiba, N. 620(1993)9
- Furusawa, M., see Kiba, N. 648(1993)481
- Furuta, R. and Nakazawa, H.
Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231
- Furuya, K., see Inoue, H. 645(1993)259
- Fushida, H., see Nishikata, M. 612(1993)239
- Futschik, K., Ammann, M., Bachmayer, S. and Kenndler, E.
Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389
- Gaboriaud, R., see Tribet, C. 608(1992)131
- Gaboriaud, R., see Tribet, C. 609(1992)381
- Gabriel, J., see Mikšik, I. 638(1993)343
- Gadam, S. D., see Jayaraman, G. 630(1993)53
- Gadam, S. D., Jayaraman, G. and Cramer, S. M.
Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37
- Gade, B.
Ion chromatographic investigations of leachates from a hazardous-waste landfill 640(1993)227
- Gage, D. A., see Huang, Z.-H. 635(1993)271
- Gagné, J. P., Carrier, A., Varfalvy, L. and Bertrand, M. J.
Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13
- Gagné, J. P., Carrier, A., Varfalvy, L. and Bertrand, M. J.
Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic-fast atom bombardment mass spectrometric systems 647(1993)21
- Gagnon, H., Tahara, S., Bleichert, E. and Ibrahim, R. K.
Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255
- Gaido, F., see Sarzanini, C. 620(1993)268
- Gaillard, Y., Gay-Montchamp, J.-P. and Ollagnier, M.
Gas chromatographic determination of zopiclone in plasma after solid-phase extraction 619(1993)310
- Gaillard, Y., Gay-Montchamp, J.-P. and Ollagnier, M.
Simultaneous screening and quantitation of alpidem, zolpidem, buspirone and benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection after solid-phase extraction 622(1993)197
- Gal, J., see Desai, D. M. 629(1993)215
- Galaev, I. Y. and Mattiasson, B.
Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367
- Galand, N., see Pothier, J. 634(1993)356
- Galceran, M. T. and Moyano, E.
Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287
- Galceran, M. T., Santos, F. J., Caixach, J., Ventura, F. and Rivera, J.
Environmental analysis of polychlorinated terphenyls: distribution in shellfish from the Ebro Delta (Mediterranean) 643(1993)399
- Gallardo-Guerrero, L., see Mínguez-Mosquera, M. I. 633(1993)295
- Gallego, M., see Ballesteros, E. 633(1993)169
- Gallinella, B., La Torre, F., Cirilli, R. and Villani, C.
Enantiomeric separation of amino alcohols on dinitrobenzoyl-diaminocyclohexane chiral stationary phases 639(1993)193
- Gallo, B., see Berrueta, L. A. 616(1993)344
- Galtier, P., see Alvinerie, M. 612(1993)115
- Gálvez Alvarez, J., see Soler Roca, R. M. 607(1992)91
- Gamache, P., Ryan, E. and Acworth, I. N.
Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143
- Gamache, P., Ryan, E., Svendsen, C., Murayama, K. and Acworth, I. N.
Simultaneous measurement of monoamines, metabolites and amino acids in brain tissue and microdialysis perfusates 614(1993)213

G

- Gamache, P. H., see Achilli, G. 632(1993)111
- Games, D. E., see Purghart, V. 605(1992)139
- Games, D. E., see Young, J. C. 627(1992)247
- Gami-Yilinkou, R., Nasal, A. and Kaliszan, R.
Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs 633(1993)57
- Gandini, C., see Gazzani, G. 609(1992)391
- Gandul-Rojas, B., see Mínguez-Mosquera, M. I. 633(1993)295
- Gangwal, S. S., see Chaudhary, R. S. 614(1993)180
- Gangwal, S. S., see Chaudhary, R. S. 614(1993)261
- Gankina, E. S., see Belenkii, B. G. 609(1992)355
- Gao, R.-Y., see Wang, Q.-S. 628(1993)127
- Garay García, F., see Carabias Martínez, R. 644(1993)49
- Garbarino, J. R., see Murphy, D. M. 642(1993)459
- García, C., Tiedra, P. G., Ruano, A., Gómez, J. A. and García-Villanova, R. J.
Evaluation of the liquid-liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251
- García, C. M., see Cela, R. 626(1992)117
- García, F. and Henion, J.
Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonylureas 606(1992)237
- García, J. J., see Fernández, N. 619(1993)143
- García, K. L., see Davis, W. M. 643(1993)341
- García, M. A., Vera, S., Bombín, M. and Marina, M. L.
Optimization of the separation selectivity of a group of benzene and naphthalene derivatives in micellar high-performance liquid chromatography using a C₁₈ column and alcohols as modifiers in the mobile phase 646(1993)297
- García-Alvarez-Coque, M. C., see Torres-Lapasió, J. R. 639(1993)87
- García-Barceló, M., Luquin, M., Belda, F. and Ausina, V.
Gas chromatographic whole-cell fatty acid analysis as an aid for the identification of mixed mycobacterial cultures 617(1993)299
- García-Viguera, C., see Tomás-Barberán, F. A. 634(1993)41
- García-Villanova, R. J., see García, C. 605(1992)251
- García Buj, G. A., see Bernal, J. L. 607(1992)175
- García Doménech, R., see Soler Roca, R. M. 607(1992)91
- García Domínguez, J. A. and Santiuste, J. M.
Programmed-temperature gas chromatography. Comparative study of retention temperatures on four unequally polar stationary phases 627(1992)203
- García March, F. J., see Soler Roca, R. M. 607(1992)91
- García-Raso, A., Páez, M. I., Martínez-Castro, I., Sanz, J. and Calvo, M. M.
Gas chromatographic retention of carbohydrate trimethylsilyl ethers. IV. Disaccharides 607(1992)221
- García Romero, E., see Sánchez Muñoz, G. 623(1992)43
- Gareil, P., Gramond, J. P. and Guyon, F.
Separation and determination of warfarin enantiomers in human plasma samples by capillary zone electrophoresis using a methylated β -cyclodextrin-containing electrolyte 615(1993)317
- Gareil, P., see Tribet, C. 608(1992)131
- Gareil, P., see Tribet, C. 609(1992)381
- Garkani-Nejad, Z., see Jalali-Heravi, M. 648(1993)389
- Garner, R. C., Whattam, M. M., Taylor, P. J. L. and Stow, M. W.
Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485
- Garner, T. W. and Yeung, E. S.
Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397
- Garrigues, P., see Budzinski, H. 627(1992)227
- Garrigues, P., see Pyell, U. 628(1993)3
- Garrigues, P., see Pyell, U. 634(1993)169
- Gaš, B.
Axial temperature effects in electromigration 644(1993)161
- Gaš, B., see Dubrovčáková, E. 623(1992)337
- Gaš, B., see Hirokawa, T. 628(1993)283
- Gaš, B., see Zusková, I. 648(1993)233
- Gasco-Lopez, A. I., see Santos-Montes, A. 620(1993)15
- Gaspard, S., see Margaron, P. 634(1993)57
- Gasparič, J., see Kučová, D. 614(1993)340
- Gasparrini, F., Misiti, D., Villani, C., Pierini, M. and La Torre, F.
Direct high-performance liquid chromatographic resolution of 2-aryl- and 2-heteroarylpropionic acids on a chiral stationary phase containing the N,N'-dinitrobenzoyl derivative of (1*R*,2*R*)-diaminocyclohexane 633(1993)81
- Gastaldi, D., see Zerbinati, O. 640(1993)231
- Gattoni, M., see Chiancone, E. 604(1992)117
- Gaudreau, P., see Lefrançois, L. 619(1993)116
- Gaus, H.-J., Treumann, A., Kreis, W. and Bayer, E.
Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319
- Gaver, R. C., see Willey, T. A. 621(1993)231
- Gavlick, W. K.
High-performance liquid chromatographic analysis of chlorhexidine and *p*-chloroaniline using a specialty column and a photodiode-array detector 623(1992)375
- Gavrilina, L. V., see Kudelin, B. K. 636(1993)243
- Gay-Montchamp, J.-P., see Gaillard, Y. 619(1993)310
- Gay-Montchamp, J.-P., see Gaillard, Y. 622(1993)197
- Gaydou, E. M., see Mouly, P. 634(1993)129
- Gazzani, G., Stoppini, G., Gandini, C. and Bettero, A.
Reversed-phase high-performance liquid chromatographic and derivative UV spectrophotometric determination of α -phenylethylamine in phosphomycin 609(1992)391
- Gbewonyo, W. S. K. and Candy, D. J.
Chromatographic isolation of insecticidal amides from *Piper guineense* root 607(1992)105
- Gebauer, P., see Caslavská, J. 638(1993)205
- Gebauer, P., see Křivánková, L. 638(1993)119
- Gebauer, P., see Mosher, R. A. 638(1993)155
- Gebauer, P., Thormann, W. and Boček, P.
Sample self-stacking in zone electrophoresis. Theoretical description of the zone electrophoretic separation of minor compounds in the presence of bulk amounts of a sample component with high mobility and like charge 608(1992)47

- Gebhardt, S., Kraft, K., Lode, H. N., Niethammer, D., Schmidt, K.-H. and Bruchelt, G.
Determination of ascorbic acid by isotachopheresis with regard to its potential in neuroblastoma therapy 638(1993)235
- Geda, A., Briggs, C. J. and Venkataram, S.
Determination of the neurotathrogen β -N-oxalyl-L- α , β -diaminopropionic acid using high-performance liquid chromatography with fluorometric detection 635(1993)338
- Geerdink, R. B., Kienhuis, P. G. M. and Brinkman, U. A. T.
Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis-thermospray tandem mass spectrometry 647(1993)329
- Geerloff, A., Van Tol, J. B. A., Jongejan, J. A. and Duine, J. A.
Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119
- Gehrcke, B., see Granville, C. P. 622(1993)21
- Geiser, F. O., Golt, C., Kung, Jr., L., Justice, J. D. and Brown, B. L.
Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1
- Gelfi, C., Alloni, A., De Besi, P. and Righetti, P. G.
Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343
- Gelfi, C., De Besi, P., Alloni, A. and Righetti, P. G.
Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333
- Gelpi, E.
Liquid chromatography-mass spectrometry (by W. M. A. Niessen and J. van der Greef) (Book Review) 635(1993)349
- Gelpi, E., see Bioque, G. 615(1993)191
- Gelpi, E. and Grimalt, J.
Foreword 607(1992)173
- Gelpi, E., see Hotter, G. 607(1992)239
- Gemborys, M. W., see Cohen, A. S. 638(1993)293
- Gen, T., see Wang, H. 609(1992)414
- Generali, T., see Di Muccio, A. 643(1993)363
- Gentien, P., see Parrish, C. C. 607(1992)97
- Gentleman, M. S., Burt, H. M., Kitts, D. D. and McErlane, K. M.
High-performance liquid chromatographic determination of sulphadiazine and trimethoprim in Chinook salmon muscle tissue 633(1993)105
- Genuit, W. J. L. and De Boer, J.
Applications of dual-beam thermospray liquid chromatography-mass spectrometry 647(1993)73
- George, N., Kuppasamy, M. and Balaraman, K.
Optimization of high-performance liquid chromatographic conditions for the determination of cyclosporins A, B and C in fermentation samples 604(1992)285
- Georgi, G., Pietsch, C. and Sawatzki, G.
High-performance liquid chromatographic determination of amino acids in protein hydrolysates and in plasma using automated pre-column derivatization with *o*-phthalaldehyde/2-mercaptoethanol 613(1993)35
- Gerber, F. A., see Debowski, J. K. 644(1993)400
- Gerbino, T. C. and Castello, G.
Theoretical calculation of the retention of chlorobenzenes on non-polar and polar capillary columns connected in series 626(1992)207
- Gerbino, T. C., see Castello, G. 642(1993)351
- Gerbino, T. C., Castello, G. and D'Amato, G.
Gas chromatographic identification of halogenated hydrocarbons by using the correlation between their retention and boiling points 609(1992)289
- Gerbino, T. C., Castello, G. and Pettinati, U.
Prediction of the retention of polynuclear aromatic hydrocarbons in programmed-temperature gas chromatography 634(1993)338
- Gerbino, T. C., Nadotti, S. and Castello, P.
Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123
- Gerding, T. K., see Kuijpers, P. H. 625(1992)223
- Germani, D., see Del Principe, D. 638(1993)277
- Gerostamoulos, J., Crump, K., McIntyre, I. M. and Drummer, O. H.
Simultaneous determination of 6-monoacetylmorphine, morphine and codeine in urine using high-performance liquid chromatography with combined ultraviolet and electrochemical detection 617(1993)152
- Gescher, A., see Mráz, J. 641(1993)194
- Gesele, E., see Liebich, H. M. 626(1992)289
- Getek, T. A., see Hansen, Jr., E. B. 603(1992)157
- Ghahary, A., see Tredget, E. E. 612(1993)7
- Ghaoui, L.
Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389
- Ghielmi, S., see Tagliaro, F. 638(1993)303
- Ghijzen, R. T., see Bagheri, H. 647(1993)121
- Ghijzen, R. T., see Mol, H. G. J. 630(1993)201
- Ghijzen, R. T., see Vreuls, J. J. 625(1992)237
- Ghosh, P., see Melrose, J. 637(1993)91
- Giacofei, R. A., see Martin, M. W. 644(1993)333
- Giacosa, D., see Baiocchi, C. 644(1993)259
- Giacosa, D., see Da Col, R. 633(1993)119
- Giaffreda, E., Tonani, C. and Righetti, P. G.
pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313
- Giambenedetti, M., see Moretti, G. 616(1993)291
- Giardina, B., see Castagnola, M. 638(1993)327
- Gibbons, W. A., see Hamedani, M. P. 619(1993)191
- Giddings, J. C., Williams, P. S. and Benincasa, M. A.
Rapid breakthrough measurement of void volume for field-flow fractionation channels 627(1992)23
- Giddings, L. D., Olesik, S. V., Pekay, L. A. and Marti, E.
Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205
- Gielen, H., see Houben, R. J. H. 634(1993)317
- Giese, R. W., see Abdel-Baky, S. 608(1992)159
- Giese, R. W., see Li, W. 608(1992)171

- Giese, R. W., see Li, W. 633(1993)315
- Giese, R. W., see Saha, M. 629(1993)35
- Giese, R. W., see Saha, M. 631(1993)161
- Giese, R. W., see Saha, M. 641(1993)400
- Giese, R. W., see Yeung, E. S. 608(1992)73
- Gieseler, F., see Boege, F. 625(1992)67
- Gigante, B., see Brites, M. J. 641(1993)199
- Gilbert, J., see Sharman, M. 603(1992)285
- Gilbert, M., see Fiset, C. 612(1993)231
- Gilbert, R., see Leblanc, Y. 633(1993)185
- Giles, R. G., see McCrossen, S. D. 623(1992)229
- Gille, P., see Durand, G. 603(1992)175
- Gillespie, A. M., see Erney, D. R. 638(1993)57
- Gillet, P., see Muller, N. 616(1993)261
- Gilpin, R. K., see Heuchel, M. 628(1993)59
- Gilvydis, D. M., see Erney, D. R. 638(1993)57
- Gimenez, F., Dumartin, C., Wainer, I. W. and Farinotti, R.
Improved column-switching liquid chromatographic method for the determination of the enantiomers of mefloquine 619(1993)161
- Gimenez, F., see Fernandez, C. 617(1993)271
- Giordani, A. B., see Heath, T. G. 638(1993)9
- Giorgi, G., see Cerretani, D. 614(1993)103
- Girelli, A. M., see Canepari, S. 616(1993)25
- Girin, M. A., Paphassarang, S., David-Eteve, C., Chaboud, A. and Raynaud, J.
Determination of ingenol in homoeopathic mother tinctures of *Euphorbia* species by high-performance liquid chromatography 637(1993)206
- Girolimetti, S., see Di Muccio, A. 643(1993)363
- Girre, C., see Lucas, D. 622(1993)79
- Gjerde, D. T., Wiederin, D. R., Smith, F. G. and Mattson, B. M.
Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73
- Glajch, J. L., see Green, J. M. 635(1993)203
- Glasa, J., see Veningerová, M. 622(1993)274
- Glasgow, C. C., see Barkley, D. J. 642(1993)371
- Glasser, W. G., see Kaster, J. A. 648(1993)79
- Glennon, J. D., Kearney, G. A. and Srijaranai, S.
High-performance liquid chromatographic separation of metal ions using aspartic acid β -hydroxamate as a model siderophore 626(1992)277
- Glennon, J. D., see Shanahan, P. 606(1992)171
- Gmehling, J., see Meyer, T. 645(1993)135
- Göbel, I., see Kartnig, T. 609(1992)423
- Godbole, K. A., see Luehrs, D. C. 627(1992)37
- Gogineni, P. V., Crooks, P. A. and Murty, R. B.
Gas chromatographic determination of residual levels of *tert*.-butanol from lyophilized liposomal formulations 620(1993)83
- Göhlín, K. and Larsson, M.
Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31
- Göhlín, K. and Larsson, M.
Study of polyorganosiloxanes (native and solvent swollen) for the preparation of narrow (5–15 μm I.D.) and long (1–6 m) open tubular columns in reversed-phase liquid chromatography 645(1993)41
- Goldshleger, R., see Tal, D. M. 646(1993)153
- Golich, T. G., see Elrod, Jr., L. 625(1992)362
- Gollamudi, R., see Feng, Z. 609(1992)187
- Golshan-Shirazi, S. and Guiochon, G.
Comparison of the various kinetic models of non-linear chromatography 603(1992)1
- Golt, C., see Geiser, F. O. 631(1993)1
- Gomas, E., see Hervé, F. 615(1993)47
- Gomez, F. J., see Del Nozal, M. J. 607(1992)191
- Gómez, G., see Hotter, G. 607(1992)239
- Gómez, J. A., see Garcia, C. 605(1992)251
- Gómez Pérez, G., see Delgado Zamarreño, M. M. 623(1992)69
- Gonnet, F., Lemaire, D., Kozelka, J. and Chottard, J.-C.
Isolation of *cis*-[PtCl(NH₃)₂(H₂O)](ClO₄), the monohydrated form of the anti-tumour drug cisplatin, using cation-exchange high-performance liquid chromatography 648(1993)279
- Gonnord, M. F. and Collet, J.
Optimized capillary zone electrophoretic separation of chlorinated phenols 645(1993)327
- González, M. J., see Jiménez, B. 607(1992)271
- González, M. J., see Valle, A. I. 607(1992)207
- González-Esquivel, D. F., Morano Okuno, C., Sánchez Rodríguez, M., Sotelo Morales, J. and Jung Cook, H.
Sensitive high-performance liquid chromatographic assay for praziquantel in plasma, urine and liver homogenates 613(1993)174
- González-Vila, F. J., see Martin, F. 607(1992)377
- Goodall, D.
Preface 636(1993)1
- Goodall, D. M., see Chan, E. N. L. 636(1993)171
- Goodall, D. M., see Penn, S. G. 636(1993)149
- Goodall, D. M., see Survary, M. A. 636(1993)81
- Goodall, D. M., see Williams, S. J. 629(1993)379
- Goodall, D. M., see Williams, S. J. 636(1993)39
- Goederham, N. J., see Murray, S. 616(1993)211
- Gorbics, L., Urge, L., Otvos-Papp, E. and Otvos Jr., L.
Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43
- Gorbunov, N. and Esposito, E.
Rapid and simple method for the determination of nitrite in synaptosomal superfusates by liquid chromatography with electrochemical detection 619(1993)133
- Gordon, B. H., see Bakes, D. M. 615(1993)117
- Gorman, J. J. and Shiell, B. J.
Isolation of carboxyl-termini and blocked amino-termini of viral proteins by high-performance cation-exchange chromatography 646(1993)193
- Gorrod, J. W., see Fang, J. 614(1993)267
- Gorrod, J. W., see Watkins, P. J. 616(1993)79
- Goto, S., see Kobayashi, H. 643(1993)197
- Goto, Y., see Kiba, N. 620(1993)9
- Gottsegen, Á., see Antus, S. 603(1992)133
- Goussard, J., see Cren, H. 615(1993)23
- Goutay, E., see Lartigue-Mattei, C. 617(1993)140
- Govi, M., see Ciavatta, C. 643(1993)261
- Goward, C. R., see Burrows, J. A. 639(1993)75
- Graff, J. F., see Yau, W. W. 630(1993)69

- Graham, J. A., see Barkley, D. J. 642(1993)371
- Gralow, A., see Schleyer, E. 614(1993)275
- Gramond, J. P., see Gareil, P. 615(1993)317
- Grange, A. H., see Brumley, W. C. 633(1993)177
- Granneman, G. R., see Hussein, Z. 613(1993)105
- Granneman, G. R., see Hussein, Z. 613(1993)113
- Granville, C. P., Gehrcke, B., König, W. A. and Wainer, I. W.
Determination of the enantiomers of ifosfamide and its 2- and 3-N-dechloroethylated metabolites in plasma and urine using enantioselective gas chromatography with mass spectrometric detection 622(1993)21
- Gray, D. O., see Price, N. P. J. 635(1993)165
- Grazioli, V., Casari, E., Murone, M. and Bonini, P. A.
High-performance liquid chromatographic method for measuring hydroxylysine glycosides and their ratio in urine as a possible marker of human bone collagen breakdown 615(1993)59
- Greaney, M. D., Marshall, D. L., Bailey, B. A. and Acworth, I. N.
Improved method for the routine analysis of acetylcholine release *in vivo*: quantitation in the presence and absence of esterase inhibitor 622(1993)125
- Green, J. M., Jones, R., Harrison, R. D., Edwards, D. S. and Glajch, J. L.
Liquid chromatographic separation of radiopharmaceutical ligand enantiomers 635(1993)203
- Greenberger, M., see Akkara, J. A. 604(1992)247
- Greenblatt, D. J., see Kelly, J. F. 621(1993)102
- Greene, J. C. and Donaldson, R. M.
The role played by ion chromatography in the assessment of amines for two-phase erosion corrosion control in nuclear electric's steam-water circuits 640(1993)303
- Greenshields, J., see Rodén, L. 638(1993)29
- Greibrokk, T.
Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33
- Grether, H.-J., see Rissler, K. 635(1993)89
- Gribnau, T. C. J., see Van Sommeren, A. P. G. 639(1993)23
- Grieve, P. A., Jones, A. and Alewood, P. F.
Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175
- Griffin, G. E., see Fleming, S. C. 640(1993)293
- Griggs, L. J., see Poon, G. K. 628(1993)215
- Grimaldi, F., see Rop, P. P. 612(1993)302
- Grimaldi, F., see Rop, P. P. 615(1993)357
- Grimalt, J., see Gelpi, E. 607(1992)173
- Grimalt, J.O., see Aceves, M. 607(1992)261
- Grimalt, J. O., see Canton, L. 607(1992)279
- Grimalt, J. O., see Teixidor, P. 607(1992)253
- Grob, K.
Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25
- Grob, K., see De Paoli, M. 626(1992)145
- Grocott, S. C., Jefferies, L. P., Bowser, T., Carnevale, J. and Jackson, P. E.
Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257
- Groenenboom, M., see Dankers, J. 641(1993)357
- Groenewegen, M. G. M., see Slobodnik, J. 642(1993)359
- Groh, T. and Bächmann, K.
Investigation of vanadate as a pH sensitive analyte anion using capillary zone electrophoresis 646(1993)405
- Grönheim, M., see Aitzetmüller, K. 603(1992)165
- Gross, A. S., Phillips, A. C., Boutagy, J. and Shenfield, G. M.
Determination of dexfenfluramine and nordexfenfluramine in urine by high-performance liquid chromatography using ultraviolet detection 621(1993)115
- Gross, G. A., see Knize, M. G. 624(1992)253
- Grosse-Ophoff, M., see Küppers, S. 629(1993)345
- Grosser, Z. A., Ryan, J. F. and Dong, M. W.
Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75
- Grossi, P., see Rossato, P. 647(1993)155
- Grossman, P. D., Hino, T. and Soane, D. S.
Dynamic light-scattering studies of hydroxyethyl cellulose solutions used as sieving media for electrophoretic separations 608(1992)79
- Grover, P. K., see Paliwal, J. K. 616(1993)155
- Grune, T., Ross, G. A., Schmidt, H., Siems, W. and Perrett, D.
Optimized separation of purine bases and nucleosides in human cord plasma by capillary zone electrophoresis 636(1993)105
- Grune, T. and Siems, W. G.
Reversed-phase high-performance liquid chromatography of purine compounds for investigation of biomedical problems: application to different tissues and body fluids (Review) 618(1993)15
- Grüner, B., see Plešek, J. 626(1992)197
- Grüner, B., see Plešek, J. 633(1993)73
- Gu, L.-H., see Wilson, J. B. 617(1993)37
- Gu, Z., see Wu, Y. 648(1993)491
- Guan, Y., Zhou, L., Zhu, D. and Jiang, W.
Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233
- Guarini, A., Guglielmetti, G. and Po, R.
Application of liquid chromatography-thermospray mass spectrometry to the analysis of polyester oligomers 647(1993)311
- Gubler, D., see Schwarzenbach, R. 624(1992)491
- Gudiksen, L., see Jäger, A. K. 634(1993)135
- Gučánt, J. L., see Lambert, D. 608(1992)311
- Gueant, J. L., see Straczek, J. 620(1993)1
- Guengerich, F. P., see Seto, Y. 619(1993)71
- Guerreiro, A., see Brites, M. J. 641(1993)199
- Guerrieri, A., Palmisano, F., Zambonin, P. G., De Lena, M. and Lorusso, V.
Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71
- Gügel, A. and Müllen, K.
Separation of C₆₀ and C₇₀ on polystyrene gel with toluene as mobile phase 628(1993)23
- Gugenheim, J., see Candito, M. 614(1993)164
- Guggisberg, D., Mooser, A. E. and Koch, H.
Methods for the determination of sulphonamides in meat (Review) 624(1992)425

AUTHOR INDEX

- Guglielmetti, G., see Guarini, A. 647(1993)311
- Guichard, J., Panteix, G., Dubost, J., Baltassat, P. and Roche, C.
Simultaneous high-performance liquid chromatographic assay of droperidol and flunitrazepam in human plasma. Application to haemodilution blood samples collected during clinical anaesthesia 612(1993)269
- Guillén, M. D., see Blanco, C. G. 607(1992)295
- Guinebault, P., see Ascalone, V. 619(1993)275
- Guiochon, G., see Charton, F. 630(1993)21
- Guiochon, G., see Diack, M. 639(1993)129
- Guiochon, G., see Felinger, A. 609(1992)35
- Guiochon, G., see Golshan-Shirazi, S. 603(1992)1
- Guiochon, G., see Jacobson, S. C. 637(1993)13
- Guiochon, G., see Jandera, P. 605(1992)1
- Guiochon, G., see Ma, Z. 603(1992)13
- Guiochon, G., see Ma, Z. 609(1992)19
- Guiochon, G., see Seidel-Morgenstern, A. 631(1993)37
- Guiochon, G., see Seidel-Morgenstern, A. 637(1993)19
- Guiochon, G. and Sepaniak, M. J.
Influence of pressure on solute retention in liquid chromatography 606(1992)248
- Guiochon, G., see Zhu, J. 636(1993)189
- Gulati, A., see Wielbo, D. 615(1993)164
- Gundel, L. A., Mahanama, K. R. R. and Daisey, J. M.
Fractionation of polar organic extracts of airborne particulate matter using cyanopropyl-bonded silica in solid-phase extraction 629(1993)75
- Guns, J. J., see Duchateau, A. L. L. 623(1992)237
- Guo, J., see Zhang, C.-X. 612(1993)287
- Gupta, M. M., Verma, R. K., Uniyal, G. C. and Jain, S. P.
Determination of plumbagin by normal-phase high-performance liquid chromatography 637(1993)209
- Gupta, R. C., see Paliwal, J. K. 616(1993)155
- Gupta, R. C., see Spencer, G. G. 612(1993)295
- Gupta, V. K., see Srivastava, S. K. 635(1993)171
- Gurka, D. F., see Donnelly, J. R. 642(1993)409
- Gustafsson, L. L., see Aden Abdi, Y. 612(1993)336
- Guttman, A., Arai, A. and Magyar, K.
Influence of pH on the migration properties of oligonucleotides in capillary gel electrophoresis 608(1992)175
- Guttman, A., Nolan, J. A. and Cooke, N.
Capillary sodium dodecyl sulfate gel electrophoresis of proteins 632(1993)171
- Gutzki, F. M., see Tsikas, D. 622(1993)1
- Guyon, F., see Gareil, P. 615(1993)317
- Guzman, N. A., Moschera, J., Iqbal, K. and Malick, A. W.
Effect of buffer constituents on the determination of therapeutic proteins by capillary electrophoresis 608(1992)197
- Gyllenhaal, O. and Vessman, J.
Packed-column supercritical fluid chromatography of omeprazole and related compounds. Selection of column support with triethylamine- and methanol-modified carbon dioxide as the mobile phase 628(1993)275
- Haag, I., see Bächmann, K. 643(1993)181
- Haagsma, N., Keegstra, J. R. and Scherpenisse, P.
High-performance liquid chromatographic determination of spectinomycin in swine, calf and chicken plasma 615(1993)289
- Haagsma, N., see Steenbaar, J. G. 615(1993)186
- Haddad, P. R., see Buchberger, W. 608(1992)59
- Haddad, P. R., see Fuping, H. 640(1993)187
- Haddad, P. R., see Jackson, P. E. 640(1993)481
- Haddad, P. R., see Laksana, S. 602(1992)57
- Haddad, P. R., Laksana, S. and Simons, R. G.
Electrodialysis for clean-up of strongly alkaline samples in ion chromatography 640(1993)135
- Haddad, P. R., see Mulholland, M. 602(1992)9
- Haddad, P. R., see Widiastuti, R. 602(1992)43
- Hage, D. S., see Yang, J. 645(1993)241
- Hagel, L.
Size-exclusion chromatography in an analytical perspective 648(1993)19
- Hagel, L., Hartmann, A. and Lund, K.
Analytical gel filtration of dextran for study of the glomerular barrier function 641(1993)63
- Hageman, J. J., see Van de Merbel, N. C. 634(1993)1
- Hagen, D. F., see Schmidt, L. 641(1993)57
- Hagen, S. R.
High-performance liquid chromatographic quantitation of phenylthiocarbonyl muramic acid and glucosamine from bacterial cell walls 632(1993)63
- Hägglund, I., see Demirbükler, M. 605(1992)263
- Hägglund, I., see Janák, K. 625(1992)311
- Hägglund, I., see Janák, K. 637(1993)213
- Haginaka, J., Murashima, T., Fujima, H. and Wada, H.
Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199
- Haginaka, J., Murashima, T., Seyama, C., Fujima, H. and Wada, H.
Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183
- Haglund, P., Jakobsson, E., Asplund, L., Athanasiadou, M. and Bergman, Å.
Determination of polychlorinated naphthalenes in polychlorinated biphenyl products via capillary gas chromatography-mass spectrometry after separation by gel permeation chromatography 634(1993)79
- Hague, G. R., see Mulholland, F. 636(1993)63
- Hail, M., see Mock, K. 646(1993)169
- Hailey, P. A., see Altria, K. D. 641(1993)147
- Hainari, S., see Sirén, H. 632(1993)215
- Haines, R. M., see Simms, P. J. 648(1993)131
- Hais, I. M., see Drandarov, K. 628(1993)103

- Hajee, C. A. J., see Steenbaar, J. G. 615(1993)186
- Hajos, P.
Ion chromatography—Principles and applications (by P. R. Haddad and P. E. Jackson) (Book Review) 628(1993)319
- Hajos, P., Revesz, G., Sarzanini, C., Sacchero, G. and Mentasti, E.
Retention model for the separation of anionic metal-EDTA complexes in ion chromatography 640(1993)15
- Haken, J. K.
Modern methods of polymer characterization (edited by H. G. Barth and J. W. Mays) (Book Review) 606(1992)297
- Haken, J. K.
Dispersion and selectivity indices of *n*-alkyl- and 1-(alkyl)alkylbenzenes 623(1992)178
- Häkkinen, V. M. A., see Kostianen, R. 634(1993)113
- Halbert, G. W., see Cummings, J. 612(1993)105
- Haldna, Ü.
Application of ion chromatography to the determination of selectivity coefficients 604(1992)282
- Hallaway, B. J., see O'Brien, T. 613(1993)239
- Hamamura, M., see Yoshimura, Y. 613(1993)43
- Hamana, K., see Niitsu, M. 641(1993)115
- Hamedani, M. P., Valkó, K., Qi, X., Welham, K. J. and Gibbons, W. A.
Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191
- Hamerton, I., see Abraham, M. H. 646(1993)351
- Hamilton, C. L. and Cornpropst, J. D.
Determination of dapoxetine, an investigational agent with the potential for treating depression, and its mono- and di-desmethyl metabolites in human plasma using column-switching high-performance liquid chromatography 612(1993)253
- Hamilton, C. L., Kirkwood, J. A., Carter, G. and Williams, R. S.
Sensitive liquid chromatographic method for the determination of a specific MI agonist, LY246708, an investigational agent with potential for the treatment of Alzheimer's disease, in human plasma 613(1993)365
- Hamoir, T., Bourguignon, B., Massart, D. L. and Hindriks, H.
Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43
- Hamoir, T. P., see Jimidar, M. 636(1993)179
- Hampe, T. R. E., Schlüter, J., Brandt, K. H., Nagel, J., Lamparter, E. and Blaschke, G.
Rapid and complete chiral chromatographic separation of racemic quaternary tropane alkaloids. Complementary use of a cellulose-based chiral stationary phase in reversed-phase and normal-phase modes—a mechanistic study 634(1993)205
- Hamre, W. J., see DeGroot, A. W. 648(1993)33
- Han, G., see Feng, Z. 609(1992)187
- Han, S. H., Lee, K. S., Cha, G. S., Liu, D. and Trojanowicz, M.
Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283
- Hanaoka, N. and Tanaka, H.
Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129
- Hanasaki, Y., see Fukui, S. 630(1993)187
- Hanasaki, Y., see Ogawa, S. 643(1993)221
- Hancock, D. K. and Reeder, D. J.
Analysis and configuration assignments of the amino acids in a pyoverdine-type siderophore by reversed-phase high-performance liquid chromatography 646(1993)335
- Hanefeld, F., see Hoffmann, G. F. 617(1993)1
- Hanoq, M., see Schenkel, E. 625(1992)289
- Hansen, H. A. and Emborg, C.
Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171
- Hansen, M., see Jablonska, A. 647(1993)341
- Hansen, P., Lindeberg, G. and Andersson, L.
Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125
- Hansen, S. H., see Kristensen, H. K. 628(1993)309
- Hansen, Jr., E. B., Abian, J., Getek, T. A., Choinski, Jr., J. S. and Korfmacher, W. A.
High-performance liquid chromatography-thermospray mass spectrometry of gibberellins 603(1992)157
- Hansen-Møller, J.
Determination of indolic compounds in pig back fat by solid-phase extraction and gradient high-performance liquid chromatography with special emphasis on the boar taint compound skatole 624(1992)479
- Hanson, G. D., Slattum, P., Tidwell, R. R., Bekersky, I. and Mong, S.
Determination of 1,3-di(4-imidazolino-2-methoxyphenoxy)propane in rat, dog and human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)61
- Hansson, U.-B., see Wingren, C. 603(1992)73
- Haraguchi, H., see Okamura, N. 630(1993)418
- Harapanhalli, R. S., Howell, R. W. and Rao, D. V.
Testicular and plasma ascorbic acid levels in mice following dietary intake: a high-performance liquid chromatographic analysis 614(1993)233
- Harbin, A.-M., see Davies, M. 609(1992)125
- Harden, R. C., see Altria, K. D. 641(1993)147
- Hardiman, C. J., see Vilenchik, L. Z. 648(1993)9
- Harding, J. E., see Evans, P. C. 614(1993)148
- Hargadon, K. A. and McCord, B. R.
Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241
- Hargitai, T., Kaida, Y. and Okamoto, Y.
Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11

- Hargitai, T., Reinholdsson, P., Törnell, B. and Isaksson, R.
Functionalized polymer particles for chiral separation
630(1993)79
- Hariharan, M., Naga, S. and VanNoord, T.
Systematic approach to the development of plasma amino
acid analysis by high-performance liquid chromatography
with ultraviolet detection with precolumn derivatization
using phenyl isothiocyanate 621(1993)15
- Hariharan, M., Naga, S., VanNoord, T. and Kindt, E. K.
Assay of human plasma cortisone by liquid
chromatography: normal plasma concentrations (between
8 and 10 a.m.) of cortisone and corticosterone
613(1993)195
- Harke, H., see Zhao, J. Y. 608(1992)239
- Harke, H. R., Bay, S., Zhang, J. Z., Rocheleau, M. J. and
Dovich, N. J.
Effect of total percent polyacrylamide in capillary gel
electrophoresis for DNA sequencing of short fragments.
A phenomenological model 608(1992)143
- Harms, D., see Meyer, T. 645(1993)135
- Harris, C. H., see Conforti, F. D. 645(1993)83
- Harris, I., see Scislawski, P. W. D. 619(1993)299
- Harris, R., see Basak, A. 615(1993)251
- Harrison, R. D., see Green, J. M. 635(1993)203
- Harrold, M. P., see Henshall, A. 608(1992)413
- Harrold, M. P., Siriraks, A. and Riviello, J.
High-performance ion chromatographic separation of
uranium and thorium in natural waters and geological
materials 602(1992)119
- Harrold, M. P., Wojtusik, M. J., Riviello, J. and Henson, P.
Parameters influencing separation and detection of anions
by capillary electrophoresis 640(1993)463
- Harry, P., see Houzé, P. 619(1993)251
- Hart, B. T., see Murphy, D. M. 642(1993)459
- Hart, M., see Altria, K. D. 641(1993)147
- Hartgers, W. A., Sinninghe Damsté, J. S. and De Leeuw, J.
W.
Identification of C₂-C₄ alkylated benzenes in flash
pyrolysates of kerogens, coals and asphaltenes
606(1992)211
- Hartkopf, J. and Erbersdobler, H. F.
Stability of furosine during ion-exchange chromatography
in comparison with reversed-phase high-performance
liquid chromatography 635(1993)151
- Hartleb, J., Eue, S. and Kemper, A.
Simultaneous analysis of homovanillic acid, 5-
hydroxyindoleacetic acid, 3-methoxy-4-hydroxy-
phenylethylene glycol and vanilmandelic acid in plasma
from alcoholics by high-performance liquid
chromatography with electrochemical detection. Critical
comparison of solid-phase and liquid-liquid extraction
methods 622(1993)161
- Hartley, J. A., Souhami, R. L. and Berardini, M. D.
Electrophoretic and chromatographic separation methods
used to reveal interstrand crosslinking of nucleic acids
(Review) 618(1993)277
- Hartmann, A., see Hagel, L. 641(1993)63
- Hartmann, A., see Lebuhn, M. 629(1993)255
- Hartonen, K., see Hawthorne, S. B. 634(1993)297
- Hartwick, R. A., see Sun, P. 648(1993)475
- Hartwick, R. A., see Wang, T. 607(1992)119
- Harvey, S., see Bostic, D. 602(1992)163
- Harvey, S. D., Fellows, R. J., Campbell, J. A. and Cataldo, D.
A.
Determination of the explosive
2,4,6-trinitrophenylmethyl nitramine (tetryl) and
its transformation products in soil 605(1992)227
- Harvey, S. D., Fellows, R. J., Cataldo, D. A. and Bean, R. M.
Analysis of the explosive 2,4,6-
trinitrophenylmethyl nitramine (tetryl) in bush bean
plants 630(1993)167
- Hasegawa, H.
Vitamin D determination using high-performance liquid
chromatography with internal standard-redox mode
electrochemical detection and its application to medical
nutritional products 605(1992)215
- Hasegawa, M., Isogai, A. and Onabe, F.
Size-exclusion chromatography of cellulose and chitin
using lithium chloride-N,N-dimethylacetamide as a
mobile phase 635(1993)334
- Hasegawa, S., see Ohta, H. 639(1993)295
- Hashimoto, K., see Okamura, N. 630(1993)418
- Hashimoto, K., Yasuda, T. and Ohsawa, K.
Determination of synephrine from Chinese medicinal
drugs originating from *Citrus* species by ion-pair high-
performance liquid chromatography 623(1992)386
- Hasler, A., Sticher, O. and Meier, B.
Identification and determination of the flavonoids from
Ginkgo biloba by high-performance liquid
chromatography 605(1992)41
- Hasler, F., Krapf, R., Brenneisen, R., Bourquin, D. and
Krähenbühl, S.
Determination of 18 β -glycyrrhetic acid in biological
fluids from humans and rats by solid-phase extraction
and high-performance liquid chromatography
620(1993)73
- Hassani, A., see Chrétien, J. R. 609(1992)261
- Hattori, H., see Matsumoto, K. 605(1992)87
- Haumann, I., see Bächmann, K. 626(1992)259
- Haupt, K. and Vijayalakshmi, M. A.
Interaction of catechol-2,3-dioxygenase of *Pseudomonas
putida* with immobilized histidine and histamine
644(1993)289
- Haurat, G., see Beaudouin, C. 613(1993)51
- Hausch, M., see Brückner, H. 614(1993)7
- Hauschild, M. Z.
Adsorption losses during extraction and derivatization
efficiency by benzylation of plant putrescine for high-
performance liquid chromatographic analysis
630(1993)397
- Hauss, D. J., Martin, P. J., Mehta, S. C. and Radebaugh, G.
W.
Determination of 2,2-dimethyl-N-(2,4,6-
trimethoxyphenyl)dodecanamide, a lipid regulator, in rat
plasma and mesenteric lymph by reversed-phase high-
performance liquid chromatography 613(1993)336
- Hautman, D. P. and Bolyard, M.
Analysis of oxyhalide disinfection by-products and other
anions of interest in drinking water by ion
chromatography 602(1992)65
- Haverkamp, J., see Van Dongen, W. D. 647(1993)301
- Hawes, E. M., see Seaton, M. J. 621(1993)49

- Hawthorne, S. B., see Burford, M. D. 609(1992)321
- Hawthorne, S. B., see Burford, M. D. 648(1993)445
- Hawthorne, S. B., Miller, D. J., Burford, M. D., Langenfeld, J. J., Eckert-Tilotta, S. and Louie, P. K.
Factors controlling quantitative supercritical fluid extraction of environmental samples 642(1993)301
- Hawthorne, S. B., Miller, D. J., Pawliszyn, J. and Arthur, C. L.
Solventless determination of caffeine in beverages using solid-phase microextraction with fused-silica fibers 603(1992)185
- Hawthorne, S. B., see Paschke, T. 609(1992)333
- Hawthorne, S. B., Riekkola, M.-L., Srenius, K., Holm, Y., Hiltunen, R. and Hartonen, K.
Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297
- Hayakawa, K., see De Felice, C. 645(1993)101
- Hayakawa, K., De Felice, C., Watanabe, T. and Tanaka, T.
High-recovery protein purification by high-performance gel-permeation chromatography: application to human serum biotinidase 616(1993)327
- Hayakawa, K., De Felice, C., Watanabe, T., Tanaka, T., Inuma, K., Nihei, K., Higuchi, S., Ezoe, T., Hibi, I. and Kurosawa, K.
Determination of free N-acetylneuraminic acid in human body fluids by high-performance liquid chromatography with fluorimetric detection 620(1993)25
- Hayakawa, K., see Oizumi, J. 612(1993)156
- Hayakawa, K., see Yamamoto, A. 627(1992)17
- Hayakawa, K., see Yamamoto, A. 644(1993)183
- Hayakawa, K., Yoshikawa, K., Oizumi, J. and Yamauchi, K.
Improved high-performance liquid chromatographic determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate 617(1993)29
- Hayashi, K., see Tagawa, K. 617(1993)95
- Hayashi, R., see Takasaki, W. 613(1993)67
- Haymond, M. W., see Bright, G. M. 621(1993)1
- Haymond, M. W., see Darmaun, D. 620(1993)33
- Hayward, M. J., see Snodgrass, J. T. 641(1993)396
- Hayward Vermaak, W. H., see Ubbink, J. B. 620(1993)254
- Hazlett, J. S., see Weiss, C. S. 608(1992)325
- Hbid, C., see Razafindralambo, H. 639(1993)81
- He, B., see Yoshida, T. 613(1993)185
- He, D., see Lai, J. Y. K. 643(1993)77
- He, L., see Kelly, J. W. 622(1993)291
- He, L., see Sun, Y. 648(1993)395
- Healy, M. A., see Jenkins, T. J. 626(1992)53
- Hearn, M. T. W., see Aguilar, M. I. 646(1993)53
- Hearn, M. T. W., see Dasari, G. 631(1993)115
- Hearn, M. T. W., see Mao, Q. M. 646(1993)67
- Hearn, M. T. W., see Mao, Q. M. 646(1993)81
- Hearn, M. T. W., see Wilce, M. C. J. 632(1993)11
- Hearn, M. T. W., see Wirth, H. -J. 646(1993)129
- Hearn, M. T. W., see Wirth, H. -J. 646(1993)143
- Hearn, M. T. W., see Zachariou, M. 646(1993)107
- Heath, T. G. and Giordani, A. B.
Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9
- Heckenberg, A. L., see Weston, A. 602(1992)249
- Heckenberg, A. L., see Weston, A. 608(1992)395
- Heemels, G. M. P., see Duchateau, A. L. L. 603(1992)151
- Heerma, W., see Van Dongen, W. D. 647(1993)301
- Heftmann, E.
Thin-layer chromatography; reagents and detection methods; physical and chemical detection methods: fundamentals, reagents I (by H. Jork, W. Funk, W. Fischer and H. Wimmer) (Book Review) 635(1993)176
- Heftmann, E.
Preface 642(1993)1
- Heinig, R., see Rabel, S.R. 617(1993)79
- Heinrichová, K., see Markovič, O. 603(1992)243
- Heinzen, V. E. F., see Arruda, A. C. 630(1993)251
- Heitzmann, T., see Neidlein, R. 616(1993)129
- Hekster, Y. A., see De Groot, A. N. J. A. 613(1993)158
- Helboe, P., see Olsen, L. 636(1993)231
- Helfferich, F. G.
Complexation chromatography (Chromatographic Science Series, Vol. 57) (edited by D. Cagniant) (Book Review) 626(1992)317
- Helfferich, F. G.
Introduction to the series "Non-linear waves in chromatography" 629(1993)95
- Helfferich, F. G.
Golay's paradox: linear *versus* non-linear chromatography 634(1993)334
- Helfferich, F. G. and Carr, P. W.
Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97
- Helliger, W., see Lindner, H. 608(1992)211
- Hellman, U., see Nice, E. 646(1993)159
- Helmlin, H.-J., Bourquin, D. and Brenneisen, R.
Determination of phenylethylamines in hallucinogenic cactus species by high-performance liquid chromatography with photodiode-array detection 623(1992)381
- Henderson, I. K. and Saari-Nordhaus, R.
Analysis of commercial explosives by single-column ion chromatography 602(1992)149
- Hendrix, C., Wijsen, C., Yun, L. M., Roets, E. and Hoogmartens, J.
Column liquid chromatography of cefadroxil on poly(styrene-divinylbenzene) 628(1993)49
- Hendrix, C., Zhu, Y., Wijsen, C., Roets, E. and Hoogmartens, J.
Comparative study of liquid chromatographic methods for the determination of cefadroxil 634(1993)257
- Henion, J., see Garcia, F. 606(1992)237
- Henion, J., see Hopfgartner, G. 647(1993)51
- Henkel, B., see Kunath, A. 634(1993)119
- Hennion, M.-C. and Coquart, V.
Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211
- Hennion, M. -C., see Driss, M. R. 639(1993)352
- Henry, R., see Hopfgartner, G. 647(1993)51
- Henshall, A., Harrold, M. P. and Tso, J. M. Y.
Separation of inositol phosphates by capillary electrophoresis 608(1992)413

- Henson, P., see Harrold, M. P. 640(1993)463
- Heo, G. S., see Lee, K.-J. 608(1992)243
- Herdewijn, P., see Coene, J. 612(1993)21
- Herdewijn, P., see Van Schepdael, A. 648(1993)299
- Hermans, J. M. H., see Van Alebeek, G.-J. W. M. 606(1992)65
- Hermansson, I., see Hermansson, J. 631(1993)79
- Hermansson, J., see Fitos, I. 609(1992)163
- Hermansson, J., Hermansson, I. and Nordin, J. Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79
- Hernández, L., see Chicharro, M. 622(1993)103
- Hernández, L. M., see Jiménez, B. 607(1992)271
- Hernandez Mendez, J., see Carabias Martínez, R. 607(1992)37
- Hernández Méndez, J., see Carabias Martínez, R. 644(1993)49
- Hernández Méndez, J., see Delgado Zamarreño, M. M. 623(1992)69
- Herráez-Hernández, R., see Campíns-Falcó, P. 612(1993)245
- Herráez-Hernández, R., see Campíns-Falcó, P. 619(1993)177
- Herraiz, M., see Blanch, G. P. 628(1993)261
- Herraiz, M., see Señoráns, F. J. 648(1993)407
- Herren, D., Thilgen, C., Calzaferrí, G. and Diederich, F. Preparative separation of higher fullerenes by high-performance liquid chromatography on a tetrachlorophthalimidopropyl-modified silica column 644(1993)188
- Herring, V. L. and Johnson, J. A. Direct high-performance liquid chromatographic determination in urine of the enantiomers of propranolol and its major basic metabolite 4-hydroxypropranolol 612(1993)215
- Herrle, I., see Kauert, G. 617(1993)318
- Herslof, B. G., see Nikolova-Damyanova, B. 609(1992)133
- Hervé, F., Gomas, E., Duché, J.-C. and Tillement, J.-P. Fractionation of the genetic variants of human α_1 -acid glycoprotein in the native form by chromatography on an immobilized copper(II) affinity adsorbent. Heterogeneity of the separate variants by isoelectrofocusing and by concanavalin A affinity chromatography 615(1993)47
- Herzig, C. M., Schoeppe, W. and Scherberich, J. E. Angiotensinase A (aminopeptidase A): properties of chromatographically purified isoforms from human kidney 625(1992)73
- Herzog, A., see Dehnhard, M. 616(1993)205
- Heskamp, H. H., see Van Rhijn, J. A. 619(1993)243
- Heuchel, M., Jaroniec, M. and Gilpin, R. K. Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59
- Heuermann, M. and Blaschke, G. Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267
- Hevizi, J., see Altria, K. D. 641(1993)147
- Hewitt, C. N., see Cao, X.-L. 627(1992)219
- Hewitt, C. N., see Cao, X.-L. 648(1993)191
- Hewitt, S. A., Blanchflower, W. J., McCaughey, W. J., Elliott, C. T. and Kennedy, D. G. Liquid chromatography-thermospray mass spectrometric assay for trenbolone in bovine bile and faeces 639(1993)185
- Hibbert, D. B., see Mulholland, M. 602(1992)9
- Hibi, I., see Hayakawa, K. 620(1993)25
- Hicks, K. B., see Simms, P. J. 648(1993)131
- Hidaka, Y., see Zhang, R. 646(1993)45
- Hiddemann, W., see Schleyer, E. 614(1993)275
- Hiemstra, M., see De Kok, A. 623(1992)265
- Hierro, M. T. G., Tomás, M. C., Fernández-Martín, F. and Santa-María, G. Determination of the triglyceride composition of avocado oil by high-performance liquid chromatography using a light-scattering detector 607(1992)329
- Higuchi, S., see Hayakawa, K. 620(1993)25
- Higuchi, S., see Uchida, T. 613(1993)179
- Hiley, M. P., see Bakes, D. M. 615(1993)117
- Hill, H. H., see Atkinson, D. A. 617(1993)173
- Hill, S. J., see Challenger, O. J. 639(1993)197
- Hillenbrand, M., see Dehnhard, M. 616(1993)205
- Hillenkamp, F., see Van Veelen, P. A. 647(1993)367
- Hill Jr., C. G., see Holfinger, M. S. 644(1993)383
- Hilser, Jr., V. J., Worosila, G. D. and Rudnick, S. E. Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329
- Hiltunen, R., see Hawthorne, S. B. 634(1993)297
- Himanen, J.-P. Determination of glycerol in bacterial cell wall teichoic acid by high-performance liquid chromatography 607(1992)1
- Hindriks, H., see Hamoir, T. 633(1993)43
- Hindriks, H., see Vervoort, R. J. M. 623(1992)207
- Hines II, M. E., see Barker, S. A. 629(1993)23
- Hinks, D., see Burkinshaw, S. M. 640(1993)413
- Hino, T., see Grossman, P. D. 608(1992)79
- Hirabayashi, N., see Kataoka, H. 615(1993)197
- Hirai, H. and Taketa, K. Lectin affinity electrophoresis of α -fetoprotein. Increased specificity and sensitivity as a marker of hepatocellular carcinoma 604(1992)91
- Hirayama, N., Maruo, M. and Kuwamoto, T. Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333
- Hirayama, N., see Onodera, S. 642(1993)185
- Hirokawa, T., Kiso, Y., Gaš, B., Zusková, I. and Vacík, J. Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4-10 628(1993)283
- Hirokawa, T., Ohmori, A. and Kiso, Y. Analysis of a dilute sample by capillary zone electrophoresis with isotachophoretic preconcentration 634(1993)101

- Hirokawa, T., Ohta, T., Tanaka, I., Nakamura, K., Xia, W., Nishiyama, F. and Kiso, Y.
Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215
- Hirokawa, T., Ueda, M., Ijyuin, A., Yoshida, S., Nishiyama, F. and Kiso, Y.
Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. IV. Separation of metal ions in a non-radioactive model solution of a high-level liquid waste 633(1993)261
- Hirokawa, T., Watanabe, K., Yokota, Y. and Kiso, Y.
Bidirectional isotachopheresis. I. Verification of bidirectional isotachopheresis and simultaneous determination of anionic and cationic components 633(1993)251
- Hjertén, S., see Kilar, F. 638(1993)269
- Hjertén, S., Mohammad, J. and Nakazato, K.
Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography 646(1993)121
- Hjertén, S., see Srichaiyo, T. 604(1992)85
- Hjertén, S., see Valtcheva, L. 638(1993)263
- Hobo, T., see Sato, K. 629(1993)291
- Hodges, R. S., see Sereda, T. J. 646(1993)17
- Hodný, Z., see Mikšik, I. 612(1993)57
- Hoekman, S. K.
Improved gas chromatography procedure for speciated hydrocarbon measurements of vehicle emissions 639(1993)239
- Hoffmann, G. F., see Meier-Augenstein, W. 615(1993)127
- Hoffmann, G. F., Seppel, C. K., Holmes, B., Mitchell, L., Christen, H. J., Hanefeld, F., Rating, D. and Nyhan, W. L.
Quantitative organic acid analysis in cerebrospinal fluid and plasma: reference values in a pediatric population 617(1993)1
- Hofmann, M., see Wilson, I. D. 617(1993)324
- Hofmeister, T. S., see Belfield, K. D. 648(1993)497
- Hogendoorn, E. A., Brinkman, U. A. T. and Van Zoonen, P.
Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307
- Hogg, A. M., see Tredget, E. E. 612(1993)7
- Hogge, L. R., Abrams, G. D., Abrams, S. R., Thibault, P. and Pleasance, S.
Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255
- Hök, B., see Jansson, M. 626(1992)310
- Holcomb, M., Wilson, D. M., Trucksess, M. W. and Thompson, Jr., H. C.
Determination of aflatoxins in food products by chromatography (Review) 624(1992)341
- Holdsworth, D. G., see Volkman, J. K. 643(1993)209
- Holfinger, M. S., Conner, A. H. and Hill Jr., C. G.
Determination of furan-based amines in reaction mixtures by gas chromatography 644(1993)383
- Holm, Y., see Hawthorne, S. B. 634(1993)297
- Holma, T., see Lukkari, P. 608(1992)317
- Holmes, B., see Hoffmann, G. F. 617(1993)1
- Holmes, B., see Meier-Augenstein, W. 615(1993)127
- Holmes, K. A., Chaffins, S., Osborn, B. L., Liotta, L. A. and Kohn, E. C.
Quantitation of human plasma levels of the anticancer agent carboxyamidotriazole by high-performance liquid chromatography 613(1993)317
- Holomán, J., see Veningerová, M. 622(1993)274
- Holt, P., see Wirth, H. -J. 646(1993)129
- Holthuis, J. J. M., see Steijger, O. M. 615(1993)97
- Holtzhauer, M. and Rudolph, M.
Application of colloidal gold for characterization of supports used in size-exclusion chromatography 605(1992)193
- Homma, M., see Kouno, Y. 622(1993)47
- Honda, A., see Yoshida, T. 613(1993)185
- Honda, F., Honda, H. and Koishi, M.
Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49
- Honda, H., see Honda, F. 609(1992)49
- Honda, S., see Kakehi, K. 630(1993)141
- Honda, S., Ueno, T. and Kakehi, K.
High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289
- Hong, J., Eo, Y., Rhee, J., Kim, T. and Kim, K.
Simultaneous analysis of 25 pesticides in crops using gas chromatography and their identification by gas chromatography-mass spectrometry 639(1993)261
- Hong, J., see Kim, K.-R. 641(1993)319
- Hong, K. B., see Youn, D. Y. 607(1992)69
- Hong, M., see Zou, H. 625(1992)169
- Hong, M., see Zou, H. 644(1993)269
- Hong, V., see Lee, H. S. 624(1992)221
- Hong-You, R. L., see Lee, H.-B. 605(1992)109
- Hong-You, R. L., see Lee, H.-B. 636(1993)263
- Hoogerbrugge, R., see De Jong, A. P. J. M. 643(1993)91
- Hoogmartens, J., see Hendrix, C. 628(1993)49
- Hoogmartens, J., see Hendrix, C. 634(1993)257
- Hoogmartens, J., see Paesen, J. 630(1993)117
- Hoogmartens, J., see Roets, E. 630(1993)159
- Hoogmartens, J., see Van Schepdael, A. 648(1993)299
- Hopfgartner, G., Bean, K., Henion, J. and Henry, R.
Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51
- Hoppel, C. L., see Ingalls, S. T. 619(1993)9
- Hoppel, C. L., see Minkler, P. E. 613(1993)203
- Horie, T., see Tokumura, T. 620(1993)153
- Horii, I., see Koyama, J. 625(1992)217
- Horiike, K., see Tojo, H. 605(1992)205
- Horikiri, Y., see Suzuki, T. 619(1993)267
- Horká, M., Kahle, V. and Krejčí, M.
Immobilized polyethyleneglycol-based stationary phase for the analysis of amines and organic acids by capillary gas chromatography 637(1993)96

- Horká, M., see Šlais, K. 605(1992)167
- Hormazabal, V., Steffenak, I. and Yndestad, M.
Simultaneous determination of residues of florfenicol and the metabolite florfenicol amine in fish tissues by high-performance liquid chromatography 616(1993)161
- Hormazabal, V., Steffenak, I. and Yndestad, M.
Simultaneous extraction and determination of sulfadiazine and trimethoprim in medicated fish feed by high-performance liquid chromatography 648(1993)183
- Hornstra, G., see Van Haaster, C. M. C. J. 617(1993)233
- Horvat, A. J. M., see Petrović, M. 607(1992)163
- Horváth, A., see Idei, M. 648(1993)251
- Horváth, C., see Chiesa, C. 645(1993)337
- Horváth, C., see Kalghatgi, K. 604(1992)47
- Horvath, W. J., see Wu, N. 635(1993)307
- Hoshiyama, K., see Takasaki, W. 613(1993)67
- Hoskovec, M., see Koutek, B. 626(1992)215
- Hosoya, K., Maruya, S., Kimata, K., Kinoshita, H., Araki, T. and Tanaka, N.
Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121
- Hossain, M. M., see Hu, S.-G. 605(1992)175
- Hossfeld, D. K., see Hüttmann, A. 620(1993)233
- Hostettmann, K., see Maillard, M. P. 647(1993)137
- Hostettmann, K., see Maillard, M. P. 647(1993)147
- Hostettmann, K., see Wolfender, J. L. 647(1993)183
- Hostettmann, K., see Wolfender, J. L. 647(1993)191
- Hotter, G., Gómez, G., Ramis, I., Bioque, G., Roselló-Catafau, J. and Gelpi, E.
Solid-phase extraction of prostanoids using an automatic sample preparation system 607(1992)239
- Houben, R. J. H., Gielen, H. and Van der Wal, S.
Automated pre-separation derivatization on a capillary electrophoresis instrument 634(1993)317
- Houghten, R. A., see Blondelle, S. E. 625(1992)199
- Houghten, R. A., see Büttner, K. 625(1992)191
- Hounsell, E. F., see Campbell, B. J. 622(1993)137
- Hounsell, E. F., see Davies, M. 609(1992)125
- Hounsell, E. F., see Davies, M. J. 646(1993)317
- Houston, J. B., see Davis, J. D. 621(1993)105
- Houzé, P., Chaussard, J., Harry, P. and Pays, M.
Simultaneous determination of ethylene glycol, propylene glycol, 1,3-butylene glycol and 2,3-butylene glycol in human serum and urine by wide-bore column gas chromatography 619(1993)251
- Hoving, E. B., see Winter, C. H. 616(1993)9
- Howell, R. W., see Harapanhalli, R. S. 614(1993)233
- Howell, S. A., see Raza, S. K. 620(1993)243
- Hsiao, C. L., see Sun, S. F. 648(1993)325
- Hsieh, J. Y. -K., see Morris, M. J. 622(1993)87
- Hsieh, M.-M. and Dorsey, J. G.
Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63
- Hsu, C. W. and Cooper, W. T.
Solvent-stationary phase interactions in normal bonded phase high-performance liquid chromatographic columns. I. Investigation of system peaks in amino bonded phase columns 603(1992)63
- Hsu, C.-Y. L. and Walters, R. R.
Optimization of sample application conditions for solid-phase extraction columns 629(1993)61
- Hsu, F.-F., see Mattammal, M. B. 614(1993)205
- Hsu, M.-C., Chang, Y.-W. and Lee, Y.-T.
Column liquid chromatography and microbiological assay compared for determination of cefadroxil preparations 609(1992)181
- Hsu, M.-C., see Chung, H.-C. 629(1993)277
- Hsu, M.-C., see Lien, M.-H. 645(1993)362
- Hu, S., see Clogston, C. L. 637(1993)55
- Hu, S. and Do, D. D.
Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31
- Hu, S.-G., Do, D. D. and Hossain, M. M.
Step elution in preparative liquid chromatography 605(1992)175
- Hu, S.-G., see Nguyen, T. S. 603(1992)27
- Hua, W. Z., see Lu, D. S. 623(1992)55
- Huang, A., see Sun, Y. 648(1993)395
- Huang, B.-C., see Lien, M.-H. 645(1993)362
- Huang, C.-Y., see Wen, K.-C. 631(1993)241
- Huang, J. L. and Morgan, D. J.
Simple direct injection high-performance liquid chromatographic method to determine quinidine in plasma 620(1993)278
- Huang, S.-M., see Agra, A. M. 620(1993)205
- Huang, Z.-H., Wang, J., Gage, D. A., Watson, J. T., Sweeley, C. C. and Hušek, P.
Characterization of N-ethoxycarbonyl ethyl esters of amino acids by mass spectrometry 635(1993)271
- Huber, C. G., see Oefner, P. J. 625(1992)331
- Huber, J. F. K., see Umile, C. 640(1993)27
- Hubert, J., see Leblanc, Y. 633(1993)185
- Hubert, P., Chiap, P., Evrard, B., Delattre, L. and Crommen, J.
Fully automated determination of sulfamethazine in ovine plasma using solid-phase extraction on disposable cartridges and liquid chromatography 622(1993)53
- Hübner, K., see Cammann, K. 648(1993)294
- Hugener, M., Tinke, A. P., Niessen, W. M. A., Tjaden, U. R. and Van der Greef, J.
Pseudo-electrochromatography-negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375
- Hughbanks, D., see Singhal, R. P. 609(1992)147
- Hughes, B., see Benedek, K. 627(1992)51
- Hughes, D. E. and Richberg, P.
Capillary micellar electrokinetic, sequential multiwavelength chromatographic characterization of a chimeric monoclonal antibody-cytotoxin conjugate 635(1993)313
- Huhn, G. and Müller, H.
Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57
- Hühnerfuss, H., see Bester, K. 639(1993)363
- Huie, C. W., see Wu, N. 634(1993)309
- Huie, C. W., see Wu, N. 635(1993)307
- Huisman, T. H. J., see Kutlar, F. 620(1993)183
- Huisman, T. H. J., see Wilson, J. B. 617(1993)37

- Hull, Jr., C. J., Dutton, W. R. and Switzer, B. S.
Quantitation of azadirachtins in insecticidal formulations by high-performance liquid chromatography 633(1993)300
- Hulst, A. G., see Wils, E. R. J. 625(1992)382
- Huneck, S., see Feige, G. B. 646(1993)417
- Huopalahti, R. and Sunell, J.
Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133
- Hupe, K.-P., see Debets, A. J. J. 608(1992)151
- Hupé, M., see Ng, L.-K. 637(1993)104
- Hürster, A., see Schlüter, H. 625(1992)3
- Husain, N., Anigbogu, V. C., Cohen, M. R. and Warner, I. M.
Reversed-phase liquid chromatographic measurement of the influence of a co-modifier functional group on the retention behavior of the β -cyclodextrin-pyrene complex 635(1993)211
- Hušek, P.
Long-chain fatty acids esterified by action of alkyl chloroformates and analysed by capillary gas chromatography 615(1993)334
- Hušek, P.
Improved procedure for the derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 630(1993)429
- Hušek, P., see Huang, Z.-H. 635(1993)271
- Hušek, P., see Liebich, H. M. 626(1992)289
- Huselton, C., see Ranalder, U. B. 617(1993)129
- Hussein, Z., Chu, S.- and Granneman, G. R.
High-performance liquid chromatographic method for determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine 613(1993)105
- Hussein, Z., Chu, S.- and Granneman, G. R.
Enantioselective determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine using high-performance liquid chromatography 613(1993)113
- Husseini, H., Mitrovic, V. and Schlepfer, M.
Rapid and sensitive assay of dobutamine in plasma by high-performance liquid chromatography and electrochemical detection 620(1993)164
- Huston, C. K.
Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203
- Hutchens, T. W., Nelson, R. W., Li, C. M. and Yip, T.-T.
Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125
- Hutchens, T. W. and Yip, T.-T.
Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133
- Hüttmann, A., Mross, K. and Hossfeld, D. K.
Determination of the new podophyllotoxin derivative NK 611 in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)233
- Hütz, A. and Klesper, E.
Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79
- Huynh, N.-H., see Bergqvist, Y. 620(1993)217
- Huynh, T. K. X., Kuhn, A. O. and Lederer, M.
Adsorption chromatography on cellulose. VIII. The salting-out behaviour of some peptides with aromatic groups 626(1992)301
- Huynh, T. K. X. and Lederer, M.
Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO₄-containing eluents 645(1993)185
- Hwang, B. Y.-H., see Müller-Stein, C. 631(1993)233
- Hwang, B. Y.-H., see Simpson, R. C. 631(1993)227
- Hynning, P.-Å., Remberger, M., Neilson, A. H. and Stanley, P.
Identification and quantification of 18-nor- and 19-norditerpenes and their chlorinated analogues in samples of sediment and fish 643(1993)439
- Hyun, M. H., see Pirkle, W. H. 607(1992)126

I

- Iampieri, M. P., see Del Principe, D. 638(1993)277
- Ibarra, J. V., see Díaz, M. 607(1992)353
- Iborra, J. L., see Castellar, M. R. 648(1993)187
- Ibrahim, R. K., see Gagnon, H. 606(1992)255
- Ide, H., see Murakami, A. 648(1993)157
- Idei, M., Mezö, I., Vadász, Z., Horváth, A., Teplán, I. and Kéri, G.
Comparison of high-performance liquid chromatography and capillary electrophoresis in the analysis of somatostatin analogue peptides 648(1993)251
- Idle, J. R., see Ellis, J. S. 621(1993)95
- Iglesias, M. J., see Blanco, C. G. 607(1992)295
- Ihara, T., see Sato, K. 629(1993)291
- Iida, R., Yasuda, T., Nadano, D., Takeshita, H. and Kishi, K.
Kappa marker typing with high-performance liquid chromatography: identification of kappa marker specific tryptic peptide from the kappa light chain of immunoglobulin G 622(1993)9
- Iinuma, K., see Hayakawa, K. 620(1993)25
- Ijyuin, A., see Hirokawa, T. 633(1993)261
- IJzerman, A. P., see Mathôt, R. A. A. 620(1993)113

- Ikarashi, Y., Blank, C. L.R. and Maruyama, Y.
Binding characteristics of various neurochemicals to glassy carbon 645(1993)219
- Ikarashi, Y. and Maruyama, Y.
Liquid chromatography with electrochemical detection for quantitation of bound choline liberated by phospholipase D hydrolysis from phospholipids containing choline in rat plasma 616(1993)323
- Ikeda, M., see Kusaka, T. 639(1993)165
- Ikeda, M., Sorimachi, K., Akimoto, K. and Yasumura, Y.
Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133
- Ikedo, M., see Tsuda, T. 632(1993)201
- Ikegawa, S., see Chiba, H. 613(1993)132
- Imai, M., see Inoue, H. 645(1993)259
- Imai, T., see Oi, T. 627(1992)187
- Imamura, T., see Ito, S. 617(1993)119
- Imaoka, T., see Kondo, J. 645(1993)75
- Imaz, C., Carreras, D., Navajas, R., Rodriguez, C., Rodriguez, A. F., Maynar, J. and Cortes, R.
Determination of ephedrine in urine by high-performance liquid chromatography 631(1993)201
- Inaba, H., see Saeki, R. 606(1992)187
- Incardona, M.-F., see Faure, H. 616(1993)1
- Ingalls, S. T., Kriaris, M. S., Xu, Y., DeWulf, D. W., Tserng, K.-Y. and Hoppel, C. L.
Method for isolation of non-esterified fatty acids and several other classes of plasma lipids by column chromatography on silica gel 619(1993)9
- Ingendoh, A., see Schlüter, H. 625(1992)3
- Ingendoh, A., see Van Veelen, P. A. 647(1993)367
- Inoue, H., Imai, M., Naemura, T., Furuya, K. and Shizuri, Y.
Preparation and determination of zinc(II) chlorophylls by reversed-phase high-performance liquid chromatography 645(1993)259
- Inoue, M., see Okada, T. 604(1992)219
- Inoue, S. and Ohtaki, N.
Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57
- Inoue, Y., see Soga, T. 620(1993)175
- Inoue, Y., see Soga, T. 625(1992)151
- Ip, D. P., see Qin, X.-Z. 626(1992)251
- Ip, D. P., see Tsai, E. W. 626(1992)245
- Iqbal, K., see Guzman, N. A. 608(1992)197
- Irgens, L. H., see Farkas, G. 645(1993)67
- Irth, H.
Laboratory experiments in liquid chromatography (by V. Willis) (Book Review) 628(1993)321
- Irth, H., Oosterkamp, A. J., Van der Welle, W., Tjaden, U. R. and Van der Greef, J.
On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65
- Irth, H., see Reeuwijk, H. J. E. M. 614(1993)95
- Iruin, J. J., see Etxeberria, A. 607(1992)227
- Isaksson, R., see Hargitai, T. 630(1993)79
- Isaksson, R., see Marie, I. 648(1993)333
- Iseki, K., see Nishikata, M. 612(1993)239
- Ishibashi, M., see Toyooka, T. 625(1992)357
- Ishibashi, M., see Toyooka, T. 627(1992)75
- Ishida, N., see Yoshida, M. 628(1993)235
- Ishida, T., see Tanaka, M. 648(1993)469
- Ishida, T., see Tojo, H. 605(1992)205
- Ishihama, Y., see Terabe, S. 608(1992)23
- Ishihama, Y., see Terabe, S. 636(1993)47
- Ishii, Y., see Chikuma, T. 635(1993)81
- Ishikawa, T., see Yamazaki, T. 615(1993)180
- Ishikura, C., see Kouno, Y. 622(1993)47
- Ishimitsu, S., see Komatsu, H. 644(1993)17
- Ishimura, K., see Ohta, T. 637(1993)35
- Ishizu, H., see Tomita, M. 621(1993)249
- Isogai, A., see Hasegawa, M. 635(1993)334
- Issaq, H.J., see Chan, K.C. 622(1993)269
- Itagaki, T., Yoshida, M., Abe, S., Omichi, H. and Nishihira, Y.
Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149
- Itakura, M., see Yamaoka, T. 630(1993)345
- Italia, M. P. and Uden, P. C.
Gas chromatography-electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81
- Ito, R. K., see Koh, E. V. 633(1993)245
- Ito, S., Nagata, T., Kudo, K., Kimura, K. and Imamura, T.
Simultaneous determination of paraquat and diquat in human tissues by high-performance liquid chromatography 617(1993)119
- Ito, S., Ota, A., Yamamoto, K. and Kawashima, Y.
Resolution of the enantiomers of thiol compounds by reversed-phase liquid chromatography using chiral derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate 626(1992)187
- Ito, Y., see Chiba, H. 613(1993)132
- Ito, Y., see Menet, J.-M. 644(1993)231
- Ito, Y., see Menet, J.-M. 644(1993)239
- Ito, Y., Shibusawa, Y., Fales, H. M. and Cahnmann, H. J.
Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177
- Ito, Y., see Shinomiya, K. 644(1993)215
- Ito, Y., see Weisz, A. 607(1992)47
- Itoh, K., see Jinno, K. 648(1993)71
- Itoi, M., see Kiba, N. 648(1993)481
- Itokawa, Y., see Satomura, Y. 625(1992)372
- Ivanov, C., see Dimov, N. 625(1992)368
- Iwaki, K., Okumura, N. and Yamazaki, M.
Rapid determination of tetracycline antibiotics in serum by reversed-phase high-performance liquid chromatography with fluorescence detection 619(1993)319
- Iwaki, K., Okumura, N. and Yamazaki, M.
Determination of tetracycline antibiotics by reversed-phase high-performance liquid chromatography with fluorescence detection 623(1992)153
- Iwaki, K., Yamazaki, M., Nimura, N. and Kinoshita, T.
Optimization of naphthylethylurea multiple-bonded chiral stationary phases for optical resolution of enantiomeric amino acid derivatives 625(1992)353

- Iwasaki, M., see Yonekura, S. 641(1993)235
- Iwase, H.
 Determination of ascorbic acid in elemental diet by high-performance liquid chromatography with electrochemical detection 606(1992)277
- Iwase, H.
 Determination of folic acid in an elemental diet by high-performance liquid chromatography with UV detection 609(1992)399
- Iwase, H.
 Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection 625(1992)377
- Izquierdo-Hornillos, R., see Santos-Montes, A. 620(1993)15
- Izzo, C. G., see Nair, J. B. 640(1993)445
- Izzo, V., see Duro, G. 618(1993)95
- J**
- Jablonska, A., Hansen, M., Ekeberg, D. and Lundanes, E.
 Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341
- Jacala, A., Adusumalli, V. E., Kucharczyk, N. and Sofia, R. D.
 Determination of the anticonvulsant felbamate and its three metabolites in brain and heart tissue of rats 614(1993)285
- Jackson, C. and Yau, W. W.
 Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209
- Jackson, P. E. and Bowser, T.
 Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33
- Jackson, P. E., see Fuping, H. 640(1993)187
- Jackson, P. E., see Grocott, S. C. 602(1992)257
- Jackson, P. E. and Haddad, P. R.
 Optimization of injection technique in capillary ion electrophoresis for the determination of trace level anions in environmental samples 640(1993)481
- Jackson, P. E., see Krol, J. 626(1992)165
- Jackson, P. E., see Widiastuti, R. 602(1992)43
- Jacob, L. R., Vollert, H., Rose, M., Entian, K.-D., Bartunik, L. J. and Bartunik, H. D.
 Fast high-performance liquid chromatographic purification of *Saccharomyces cerevisiae* phosphoenolpyruvate carboxykinase 625(1992)47
- Jacob III, P., Yu, L., Liang, G., Shulgin, A. T. and Benowitz, N. L.
 Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49
- Jacobson, S. C., see Charton, F. 630(1993)21
- Jacobson, S. C., see Seidel-Morgenstern, A. 637(1993)19
- Jacobson, S. C., Seidel-Morgenstern, A. and Guiochon, G.
 Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13
- Jacomet, Y., see Candito, M. 614(1993)164
- Jacquemin, N. M. J., see Duchateau, A. L. L. 637(1993)29
- Jacques, P., see Razafindralambo, H. 639(1993)81
- Jacquier, J. C., see Desbène, P. L. 608(1992)375
- Jacquin-Dubreuil, A., see Fliniaux, M.-A. 644(1993)193
- Jäger, A. K., Gudiksen, L., Adersen, A. and Smitt, U. W.
 High-performance liquid chromatography of thapsigargin 634(1993)135
- Jagodzinski, J., see Lamb, J. D. 640(1993)33
- Jagota, N. K. and Stewart, J. T.
 Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255
- Jain, R.
 Simplified method for simultaneous determination of diazepam and its metabolites in urine by thin-layer chromatography and direct densitometry 615(1993)365
- Jain, S. P., see Gupta, M. M. 637(1993)209
- Jakobsson, E., see Haglund, P. 634(1993)79
- Jakubik, T., see Lesko, J. 603(1992)294
- Jalali-Heravi, M. and Garkani-Nejad, Z.
 Prediction of gas chromatographic retention indices of some benzene derivatives 648(1993)389
- Jamali, F., see Wright, M. R. 616(1993)59
- James, C. A., see Kennedy, S. W. 619(1993)127
- James, I., Crowley, C. and Perrett, D.
 Assay of pyridinium crosslinks in serum using narrow-bore ion-paired reversed-phase high-performance liquid chromatography 612(1993)41
- Janák, K., Bengård, A., Colmsjö, A., Hägglund, I. and Blomberg, L. G.
 Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213
- Janák, K., Hägglund, I., Blomberg, L. G., Bengård, A. K. and Colmsjö, A. L.
 Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311
- Janas, J., see Voelkel, A. 645(1993)141
- Janča, J.
 Cell separation science and technology (edited by D. S. Kompala and P. Todd) (Book Review) 606(1992)152
- Janda, V., Bartle, K.D. and Clifford, A.A.
 Supercritical fluid extraction in environmental analysis (Review) 642(1993)283
- Jandera, P.
 Advances in Chromatography, Vol. 31 (edited by J. C. Giddings, E. Grushka, J. Cazes and P. R. Brown) (Book Review) 644(1993)416

- Jandera, P. and Guiochon, G.
Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1
- Jandik, P., see Bondoux, G. 602(1992)79
- Jandik, P., see Jones, W. R. 608(1992)385
- Jandik, P., see Weston, A. 602(1992)249
- Jandik, P., see Weston, A. 608(1992)395
- Janeček, M., Quilliam, M. A., Bailey, M. R. and North, D. H.
Determination of erythromycin A by liquid chromatography and electrochemical detection, with application to salmon tissue 619(1993)63
- Janeček, M., Quilliam, M. A. and Lawrence, J. F.
Analysis of paralytic shellfish poisoning toxins by automated pre-column oxidation and microcolumn liquid chromatography with fluorescence detection 644(1993)321
- Janini, G. M., see Chan, K. C. 622(1993)269
- Janjić, T. J., Milojković, D. M., Bročović, A., Arbutina, Ž. J. and Čelap, M. B.
Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419
- Janjić, T. J., see Tešić, Ž. L. 628(1993)148
- Janjić, T. J., see Vučković, G. 609(1992)427
- Janjić, T. J., Živković, V., Vučković, G. and Čelap, M. B.
Salting-out thin-layer chromatography of transition metal complexes. II. Mixed aminocarbonylato-cobalt(III) complexes on a polyacrylonitrile sorbent 626(1992)305
- Jann, M. W., see Chung, M.-C. 613(1993)168
- Janoš, P.
Separation of some metals as their anionic oxalate complexes by reversed-phase ion-interaction chromatography 635(1993)257
- Janoš, P.
Determination of stability constants of metal complexes from ion chromatographic measurements 641(1993)229
- Jansen, E. H. J. M., see Van Ginkel, L. A. 624(1992)389
- Janson, J.-C.
Foreword 604(1992)1
- Janson, J.-C., see Zhang, Z. 604(1992)143
- Janssen, H.-G., see Mol, H. G. J. 630(1993)201
- Janssen, P. S. L., see Langenhuizen, M. H. J. M. 638(1993)311
- Jansson, M., Emmer, Å., Roeraade, J., Lindberg, U. and Hök, B.
Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310
- Jäppinen, P., see Kontsas, H. 636(1993)255
- Jaquemar, M., see Lindner, H. 608(1992)211
- Jard, S., see Desarnaud, F. 603(1992)95
- Jardine, I., see Mock, K. 646(1993)169
- Jaroniec, M., see Heuchel, M. 628(1993)59
- Jarrett, H. W.
Affinity chromatography with nucleic acid polymers (Review) 618(1993)315
- Jauhainen, T.-P., see Kunnas, A. V. 628(1993)269
- Jayaraman, G., see Gadam, S. D. 630(1993)37
- Jayaraman, G., Gadam, S. D. and Cramer, S. M.
Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53
- Jayatilaka, A. and Poole, C. F.
Computer-assisted optimization of the gas chromatographic separation of equine estrogens 617(1993)19
- Jefferies, L. P., see Grocott, S. C. 602(1992)257
- Jefferies, T. M., see Cooper, A. D. 637(1993)137
- Jefferies, T. M., see Mills, A. G. 643(1993)409
- Jelínek, I., see Snopek, J. 609(1992)1
- Jelínková, K., see Schneiderka, P. 614(1993)221
- Jen, J.-F., Lin, C.-W., Lin, C.-J. and Yan, C.-T.
Determination of volatile fatty acids in landfill leachates by high-performance liquid chromatography 629(1993)394
- Jenkins, T. J., Kaplan, M., Davidson, G., Healy, M. A. and Poliakoff, M.
Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53
- Jensen, B., see Staby, A. 648(1993)221
- Jensen, D., Weiss, J., Rey, M. A. and Pohl, C. A.
Novel weak acid cation-exchange column 640(1993)65
- Jeter, J. L., see Donnelly, J. R. 642(1993)409
- Jeunink, E. L., see Kaijser, G. P. 614(1993)253
- Jheeta, P., see Mráz, J. 641(1993)194
- Jiang, L. G., see Sairam, M. R. 604(1992)171
- Jiang, W., see Guan, Y. 604(1992)233
- Jiang, X. H., see Wei, W. 623(1992)366
- Jimbo, Y., see Kobayashi, H. 643(1993)197
- Jiménez, B., Tabera, J., Hernández, L. M. and González, M. J.
Simplex optimization of the analysis of polychlorinated biphenyls. Application to the resolution of a complex mixture of congeners of interest on a single gas chromatographic column 607(1992)271
- Jiménez, J. J., see Bernal, J. L. 607(1992)303
- Jimidar, M., Hamoir, T. P., Foriers, A. and Massart, D. L.
Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179
- Jimenez-Conde, F., see Ling, C. F. 643(1993)351
- Jin, H., see Di Marco, M. P. 645(1993)107
- Jin, J., see Rodén, L. 638(1993)29
- Jin, J.-Z., Azzi, A., Wang, J.-Y. and Lin, S.-X.
Preparation of the apoenzyme and holoenzyme forms of human 17 β -hydroxysteroid dehydrogenase 614(1993)159
- Jin, Z., see Wu, Y. 648(1993)491
- Jindal, K. C., see Chaudhary, R. S. 614(1993)180
- Jindal, K. C., see Chaudhary, R. S. 614(1993)261
- Jin Lee, J., see Lee, K.-J. 616(1993)135
- Jinno, K., see Lukkari, P. 608(1992)317
- Jinno, K., Ohta, H., Saito, Y., Uemura, T., Nagashima, H., Itoh, K., Chen, Y.-L., Luehr, G., Archer, J., Fetzer, J. C. and Biggs, W. R.
Dimethoxyphenylpropyl bonded silica phase for higher fullerenes separation by high-performance liquid chromatography 648(1993)71

- Joelson, T., see Bhikhabhai, R. 604(1992)157
- Joerg, E. and Sontag, G.
Multichannel coulometric detection coupled with liquid chromatography for determination of phenolic esters in honey 635(1993)137
- Joergensen, L., see Botte, H. F. 602(1992)27
- Joergensen, L., Weimann, A. and Botte, H. F.
Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179
- Johnson, D. C., Dobberpuhl, D., Roberts, R. and Vandenberg, P.
Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79
- Johnson, J. A., see Herring, V. L. 612(1993)215
- Johnson, K., see Mock, K. 646(1993)169
- Johnson, K. L., see Tomlinson, A. J. 621(1993)239
- Johnson, S. B. and Brown, R. E.
Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography–mass spectrometry 605(1992)281
- Jolly, E., see Furton, K. G. 629(1993)3
- Jolly, E., see Furton, K. G. 642(1993)33
- Jones, A., see Alewood, P. F. 646(1993)185
- Jones, A., see Grieve, P. A. 646(1993)175
- Jones, A. T., Keen, J. N. and Roberts, N. B.
Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature 646(1993)207
- Jones, G., see Tsuda, T. 632(1993)201
- Jones, J. L., see Meier-Augenstein, W. 615(1993)127
- Jones, P., see Challenger, O. J. 639(1993)197
- Jones, R., see Green, J. M. 635(1993)203
- Jones, R. D. M., see Chan, K. 619(1993)154
- Jones, W. R.
Method development approaches for capillary ion electrophoresis 640(1993)387
- Jones, W. R., see Bondoux, G. 602(1992)79
- Jones, W. R. and Jandik, P.
Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385
- Jones, W. R., see Koberda, M. 602(1992)235
- Jones, W. R., see Weston, A. 602(1992)249
- Jones, W. R., see Weston, A. 608(1992)395
- Jongejan, J. A., see Geerlof, A. 648(1993)119
- Jongen, M. J. M., see Leenheers, L. H. 613(1993)89
- Jonkman, J. H. G., see Wieling, J. 629(1993)181
- Jonkman, J. H. G., see Wieling, J. 635(1993)195
- Jönsson, S., see Marle, I. 648(1993)333
- Jørgensen, G.H., see Olsen, L. 636(1993)231
- Jørgenson, J. W., see Lemmo, A. V. 633(1993)213
- Joseph, B., see Lafosse, M. 623(1992)277
- Joseph, M., see Excoffier, J.-L. 631(1993)15
- Josić, D., Bal, F. and Schwinn, H.
Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1
- Joubert-Caron, R., see Caron, M. 646(1993)327
- Jourdil, N., Pinteur, B., Vincent, F., Marka, C. and Bessard, G.
Simultaneous determination of trimipramine and desmethyl- and hydroxytrimipramine in plasma and red blood cells by capillary gas chromatography with nitrogen-selective detection 613(1993)59
- Jozefonvicz, J., see Sinniger, V. 615(1993)215
- Juang, D.-J., see Cheng, F.-C. 617(1993)227
- Judson, I., see Raynaud, F. 622(1993)243
- Jump, W. G., see Wilson, T. D. 641(1993)241
- Jumppanen, J., see Lukkari, P. 608(1992)317
- Jun, M.-J., see Fu, P. P. 642(1993)107
- Jung, H., see Fu, P. P. 642(1993)107
- Jung, K.-H., see Youn, D. Y. 607(1992)69
- Jung, M. and Schurig, V.
Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161
- Jungbauer, A.
Preparative chromatography of biomolecules (Review) 639(1993)3
- Jungbauer, A., see Kaltenbrunner, O. 639(1993)41
- Jungbauer, A., see Vorauer, K. 625(1992)33
- Jung Cook, H., see González-Esquivel, D. F. 613(1993)174
- Junk, G. A., see Fritz, J. S. 625(1992)87
- Jurczak, J., see Sybilska, D. 625(1992)349
- Jürgensen, A., McGarvey, G. B. and Moffat, J. B.
Ion chromatographic analysis of inorganic molecular metal–oxygen cluster compounds 602(1992)173
- Just, U., see Pasch, H. 623(1992)315
- Justice, J. D., see Geiser, F. O. 631(1993)1

K

- Kabbani, J. A., see Bergqvist, Y. 620(1993)217
- Kafetzopoulos, D., see Martinou, A. 644(1993)35
- Kagi, R. I., see Fisher, S. J. 642(1993)205
- Kahle, V., see Horká, M. 637(1993)96
- Kai, M., see Kojima, E. 612(1993)187
- Kai, M., Takano, C., Nohta, H. and Ohkura, Y.
Determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by liquid chromatography–mass spectrometry 621(1993)181
- Kai, M., see Yonekura, S. 641(1993)235
- Kaida, Y., see Hargitai, T. 628(1993)11
- Kaida, Y. and Okamoto, Y.
Optical resolution by high-performance liquid chromatography on benzylcarbamates of cellulose and amylose 641(1993)267

- Kaijser, G. P., Beijnen, J. H., Jeunink, E. L., Bult, A., Keizer, H. J., De Kraker, J. and Underberg, W. J. M.
Determination of chloroacetaldehyde, a metabolite of oxazaphosphorine cytostatic drugs, in plasma 614(1993)253
- Kaine, L. A., Crowe, J. B. and Wolnik, K. A.
Forensic applications of coupling non-suppressed ion-exchange chromatography with ion-exclusion chromatography 602(1992)141
- Kaiser, M., see Emmrich, M. 645(1993)89
- Kajita, M., Niwa, T., Takeda, N., Yoshizumi, H., Tatematsu, A., Watanabe, K. and Nagatsu, T.
Presence of N-methyl-dopamine in parkinsonian and normal human brains 613(1993)1
- Kajita, M., Niwa, T. and Watanabe, K.
Analysis of urinary organic acids by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 622(1993)263
- Takehi, K., see Honda, S. 608(1992)289
- Takehi, K., Ueda, M., Suzuki, S. and Honda, S.
Determination of hyaluronic acid by high-performance liquid chromatography of the oligosaccharides derived therefrom as 1-(4-methoxy)phenyl-3-methyl-5-pyrazolone derivatives 630(1993)141
- Kakihana, H., see Oi, T. 627(1992)187
- Kalafsky, G., Smith, H. T. and Choc, M. G.
High-performance liquid chromatographic method for the determination of fluvastatin in human plasma 614(1993)307
- Kalghatgi, K., Fellegvári, I. and Horváth, C.
Rapid displacement chromatography of melittin on micropellicular octadecyl-silica 604(1992)47
- Kaliszan, A., see Kaliszan, R. 609(1992)69
- Kaliszan, A., see Kaliszan, R. 615(1993)281
- Kaliszan, R., see Gami-Yilinkou, R. 633(1993)57
- Kaliszan, R., Kaliszan, A., Noctor, T. A. G., Purcell, W. P. and Wainer, I. W.
Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69
- Kaliszan, R., Kaliszan, A. and Wainer, I. W.
Prediction of drug binding to melanin using a melanin-based high-performance liquid chromatographic stationary phase and chemometric analysis of the chromatographic data 615(1993)281
- Kaljurand, M., see Smit, H. C. 642(1993)53
- Kaltenbrunner, O., Tauer, C., Brunner, J. and Jungbauer, A.
Isoprotein analysis by ion-exchange chromatography using a linear pH gradient combined with a salt gradient 639(1993)41
- Kamata, K., see Motohashi, N. 643(1993)1
- Kamerling, J. P., see Kragten, E. A. 623(1992)49
- Kami, H., see Ogawa, S. 643(1993)221
- Kaminski, Y. L., see Kudelin, B. K. 636(1993)243
- Kanazawa, H., Nagata, Y., Kurosaki, E., Matsushima, Y. and Takai, N.
Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79
- Kanazawa, H., Nagata, Y., Matsushima, Y., Takai, N., Uchiyama, H., Nishimura, R. and Takeuchi, A.
Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215
- Kanazawa, H., Nagata, Y., Matsushima, Y., Tomoda, M. and Takai, N.
Determination of acidic saponins in crude drugs by high-performance liquid chromatography on octadecylsilyl porous glass 630(1993)408
- Kandyba, E. I., see Chlenov, M. A. 631(1993)261
- Kanemoto, A., see Kataoka, H. 633(1993)311
- Kaneta, T., Tanaka, S., Taga, M. and Yoshida, H.
Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369
- Kaniansky, D., Marák, J., Madajová, V. and Šimuničová, E.
Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137
- Kaniansky, D., see Reijenga, J. C. 638(1993)195
- Kaniansky, D. and Zelenský, I.
Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper (II) ions 638(1993)225
- Kannan, N., Petrick, G., Schultz-Bull, D. E. and Duinker, J. C.
Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425
- Kano, I., see Suzuki, T. 643(1993)173
- Kapembwa, M. S., see Fleming, S. C. 640(1993)293
- Kapila, S., see Liu, M. H. 639(1993)151
- Kaplan, D. L., see Akkara, J. A. 604(1992)247
- Kaplan, M., see Jenkins, T. J. 626(1992)53
- Karas, M., see Schlüter, H. 625(1992)3
- Karg, F. P. M.
Determination of phenylurea pesticides in water by derivatization with heptafluorobutyric anhydride and gas chromatography-mass spectrometry 634(1993)87
- Karger, B. L., see Foret, F. 608(1992)3
- Karidas, T., see Avgerinos, A. 619(1993)324
- Karlaganis, G., see Frost, P. 643(1993)379
- Karlish, S. J. D., see Tal, D. M. 646(1993)153
- Karlsson, A., see Marle, I. 604(1992)185
- Karlsson, K. -E.
Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography-mass spectrometry 647(1993)31
- Karlsson, K. -E., see Witte, D. T. 641(1993)39
- Karoutis, A. I., Tyler, R. T. and Slater, G. P.
Analysis of legume oligosaccharides by high-resolution gas chromatography 623(1992)186
- Karovičová, J., Polonský, J., Drdák, M., Šimko, P. and Vollek, V.
Capillary isotachopheresis of organic acids produced by selected microorganisms during lactic acid fermentation 638(1993)241
- Kartnig, T. and Göbel, I.
Determination of hypericin and pseudohypericin by thin-layer chromatography-densitometry 609(1992)423

- Kasai, K.
Immobilized affinity ligand techniques (by G. T. Hermanson, A. K. Mallia and P. K. Smith (Book Review) 616(1993)355
- Kasai, K.
Size-dependent chromatographic separation of nucleic acids (Review) 618(1993)203
- Kashiwa, R., see Saitoh, K. 609(1992)341
- Kašička, V., Prusik, Z. and Pospišek, J.
Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13
- Kaštelan-Macan, M., see Petrović, M. 607(1992)163
- Kaster, J. A., De Oliveira, W., Glasser, W. G. and Velandar, W. H.
Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79
- Kastner, M. and Neubert, D.
Purification of cytochromes P-450 derived from liver microsomes of untreated and 2,3,7,8-tetrachlorodibenzo-*p*-dioxin-treated marmoset monkeys 625(1992)55
- Kasumi, T., see Mulholland, F. 636(1993)63
- Kataoka, H., Hirabayashi, N. and Makita, M.
Analysis of lipoic acid in biological samples by gas chromatography with flame photometric detection 615(1993)197
- Kataoka, H., Nagao, K., Nabeshima, N., Kiyama, M. and Makita, M.
Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239
- Kataoka, H., Nakai, K. and Makita, M.
Identification of O-phosphoamino acids in urine hydrolysate by gas chromatography-mass spectrometry 615(1993)136
- Kataoka, H., Ohru, S., Kanemoto, A. and Makita, M.
Determination of ammonia as its benzenesulphonyldimethylaminomethylene derivative in environmental water samples by gas chromatography with flame photometric detection 633(1993)311
- Katayama, M., Masuda, Y. and Taniguchi, H.
Determination of corticosteroids in plasma by high-performance liquid chromatography after pre-column derivatization with 2-(4-carboxyphenyl)-5,6-dimethylbenzimidazole 612(1993)33
- Katayama, M. and Taniguchi, H.
Determination of estrogens in plasma by high-performance liquid chromatography after pre-column derivatization with 2-(4-carboxyphenyl)-5,6-dimethylbenzimidazole 616(1993)317
- Katlein, R., see Rissler, K. 612(1993)150
- Kato, T., see Chikuma, T. 635(1993)81
- Kato, Y., see Niwa, T. 613(1993)9
- Kato, Y., Shimokawa, M., Yokoyama, T. and Mohri, K.
Simultaneous determination of amfenac sodium and its metabolite (7-benzoyl-2-oxindole) in human plasma by high-performance liquid chromatography 616(1993)67
- Katona, T., see White, G. 625(1992)157
- Katti, A. M.
Preparative and process scale liquid chromatography (edited by G. Subramanian) (Book Review) 605(1992)149
- Katunuma, N., see Ohshita, T. 633(1993)281
- Katz, S. E. and Siewierski, M.
Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403
- Kauert, G., Herrle, I. and Wermeille, M.
Quantification of dimethindene in plasma by gas chromatography-mass fragmentography using ammonia chemical ionization 617(1993)318
- Kaufmann, C. C., see Schleyer, E. 614(1993)275
- Kaufmann, I., see Weinmann, W. 628(1993)111
- Kaufmann, M., Schwarz, T. and Bartholmes, P.
Continuous buffer exchange of column chromatographic eluates using a hollow-fibre membrane module 639(1993)33
- Kaufmann, T., see Caslavská, J. 638(1993)205
- Kauvar, L. M., see Benedek, K. 627(1992)51
- Kawabata, K., see Takasaki, W. 613(1993)67
- Kawahara, N., see Wada, K. 644(1993)43
- Kawahara, Y., see Kondo, J. 645(1993)75
- Kawasaki, S., Nagumo, F., Ueda, H., Tajima, Y., Sano, M. and Tadano, J.
Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61
- Kawasaki, T., see Kondo, J. 645(1993)75
- Kawashima, Y., see Ito, S. 626(1992)187
- Kawazumi, H., see Williams, S. J. 636(1993)39
- Kazlauskas, R., see Lisi, A. M. 617(1993)265
- Kažoka, H. A. and Shatz, V. D.
High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181
- Kearney, G. A., see Glennon, J. D. 626(1992)277
- Keating, J., Dratcu, L., Lader, M. and Sherwood, R. A.
Measurement of plasma serotonin by high-performance liquid chromatography with electrochemical detection as an index of the *in vivo* activity of fluvoxamine 615(1993)237
- Keating, K. M., Rogers, B. L., Weber, L., Morgenstern, J. P., Klapper, D. G. and Kuo, M.
Immunoaffinity chromatography of recombinant *Amb a I* in the presence of a denaturing agent 631(1993)269
- Keegan, J., see Allender, W. J. 609(1992)315
- Keegstra, J. R., see Haagsma, N. 615(1993)289
- Keen, J. N., see Jones, A. T. 646(1993)207
- Keever, J. T., see Straub, R. 627(1992)173
- Keita, D., see Pouliquen, H. 627(1992)287
- Keizer, H. J., see Kaijser, G. P. 614(1993)253
- Keller, H. R., see Bourguignon, B. 628(1993)171
- Keller, H. R., Kiechle, P., Erni, F., Massart, D. L. and Excoffier, J. L.
Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

- Keller, I., see Renaud, J. M. 604(1992)243
- Kelly, J. F. and Greenblatt, D. J.
Rapid and sensitive gas chromatographic determination of estazolam 621(1993)102
- Kelly, J. W., He, L. and Stewart, J. T.
High-performance liquid chromatographic separation of ondansetron enantiomers in serum using a cellulose-derivatized stationary phase and solid-phase extraction 622(1993)291
- Kelly, M. J., Chambers, J. and MacNicol, A. D.
Simple and rapid method for the determination of the diastereomers of difenacoum in blood and liver using high-performance liquid chromatography with fluorescence detection 620(1993)105
- Kelly, R. G., see Nash, B. K. 602(1992)135
- Kelly, R. G., see Scully, H. S. 640(1993)345
- Keltjens, J. T., see Van Alebeek, G.-J. W. M. 606(1992)65
- Kema, I. P., Meiborg, G., Nagel, G. T., Stob, G. J. and Muskiet, F. A. J.
Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181
- Kemper, A., see Hartleb, J. 622(1993)161
- Kenndler, E. and Friedl, W.
Adjustment of resolution and analysis time in capillary zone electrophoresis by varying the pH of the buffer 608(1992)161
- Kenndler, E., see Futschik, K. 644(1993)389
- Kenndler, E., see Schützner, W. 639(1993)375
- Kennedy, D. G., see Hewitt, S. A. 639(1993)185
- Kennedy, S. W. and James, C. A.
Improved method to extract and concentrate porphyrins from liver tissue for analysis by high-performance liquid chromatography 619(1993)127
- Kennedy Keller, R. and Thompson, R.
Rapid synthesis of isoprenoid diphosphates and their isolation in one step using either thin layer or flash chromatography 645(1993)161
- Kenney, W. C., see Watson, E. 606(1992)165
- Kéri, G., see Idei, M. 648(1993)251
- Kernoghan, N. J., see Andrew, M. 640(1993)111
- Kerns, E. H., see Liu, J. 632(1993)45
- Kerr, L. A., see Cessna, A. J. 642(1993)417
- Khaledi, M. G., see Kord, A. S. 631(1993)125
- Khaledi, M. G., see Rodgers, A. H. 636(1993)203
- Khaledi, M. G., see Smith, S. C. 632(1993)177
- Khalifa, M., see Molnár-Perl, I. 632(1993)57
- Khan, I., see Feste, A. S. 607(1992)7
- Khan, I., see Feste, A. S. 630(1993)129
- Khan, M. A. M., see Mohammad, A. 642(1993)455
- Khanna, S., see Chaudhary, R. S. 614(1993)180
- Khoo, B. J., see Bishop, S. M. 646(1993)345
- Khrapunov, S., see Zagariya, A. 648(1993)275
- Khuhawar, M. Y., Sarafraz-Yazdi, A. and Uden, P. C.
Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271
- Khuhawar, M. Y. and Soomro, A. I.
Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371
- Kiba, N., Goto, Y. and Furusawa, M.
Simultaneous determination of glucose and 1-deoxyglucose in serum by anion-exchange chromatography with an immobilized pyranose oxidase reactor 620(1993)9
- Kiba, N., Itoi, M. and Furusawa, M.
Post-column immobilized tyrosinase reactor for determination of L-3,4-dihydroxyphenylalanine and L-tyrosine by high-performance liquid chromatography with fluorescence detection 648(1993)481
- Kibbey, C. E. and Meyerhoff, M. E.
Shape-selective separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography on tetraphenylporphyrin-based stationary phases 641(1993)49
- Kiechle, P., see Keller, H. R. 641(1993)1
- Kienhuis, P. G. M.
Radiofrequency-only daughter scan mode to provide more spectral information in liquid chromatography-thermospray tandem mass spectrometry 647(1993)39
- Kienhuis, P.G.M., see Geerdink, R.B. 647(1993)329
- Kientz, C. E., Verweij, A., De Jong, G. J. and Brinkman, U. A. T.
Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59
- Kientz, C. E., Verweij, A., De Jong, G. J. and Brinkman, U. A. T.
Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71
- Kihara, K., see Rokushika, S. 630(1993)195
- Kilár, F. and Hjertén, S.
Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269
- Kilár, F., see Westerberg, G. 645(1993)319
- Kim, D., see Youn, D. Y. 607(1992)69
- Kim, J.-H., see Kim, K.-R. 605(1992)241
- Kim, K., see Hong, J. 639(1993)261
- Kim, K.-R., Kim, J.-H., Oh, C.-H. and Mabry, T. J.
Capillary gas chromatography of protein amino acids as N(O,S)-isobutyloxycarbonyl *tert*.-butyldimethylsilyl derivatives in aqueous samples 605(1992)241
- Kim, K.-R., Shim, W.-H., Shin, Y.-J., Park, J., Myung, S. and Hong, J.
Capillary gas chromatography of acidic non-steroidal antiinflammatory drugs as *tert*.-butyldimethylsilyl derivatives 641(1993)319
- Kim, K.-R., see Youn, D. Y. 607(1992)69
- Kim, N. J., see Lee, K.-J. 608(1992)243
- Kim, T., see Hong, J. 639(1993)261
- Kim, Y., see Fu, P. P. 642(1993)107
- Kimata, K., see Hosoya, K. 625(1992)121
- Kimball, B. A. and Mishalanie, E. A.
Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

- Kimura, K., see Ito, S. 617(1993)119
- Kimura, M., see Satomura, Y. 625(1992)372
- Kimura, N., see Sakakura, H. 621(1993)123
- Kindt, E. K., see Hariharan, M. 613(1993)195
- King, C. V., see McIntyre, I. M. 621(1993)215
- King, J.-K. and Pinto, N. G.
Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61
- Kinoshita, H., see Hosoya, K. 625(1992)121
- Kinoshita, T., see Iwaki, K. 625(1992)353
- Kintz, P., see Tracqui, A. 616(1993)95
- Kirby, D. A., Miller, C. L. and Rivier, J. E.
Separation of neuropeptide Y diastereomers by high-performance liquid chromatography and capillary zone electrophoresis 648(1993)257
- Kircheggner, M., see Eder, K. 607(1992)55
- Kirchherr, H.
Determination of hydrazine in human plasma by high-performance liquid chromatography 617(1993)157
- Kirchmann, E. and Welch, L. E.
High-performance liquid chromatographic separation and electrochemical detection of penicillins 633(1993)111
- Kirk, O., Damhus, T. and Christensen, M. W.
Determination of peroxycarboxylic acids by high-performance liquid chromatography with electrochemical detection 606(1992)49
- Kirkland, J. J., Dilks Jr., C. H. and DeStefano, J. J.
Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19
- Kirkland, J. J., see Yau, W. W. 630(1993)69
- Kirkwood, J. A., see Hamilton, C. L. 613(1993)365
- Kishi, K., see Iida, R. 622(1993)9
- Kiso, Y., see Hirokawa, T. 628(1993)283
- Kiso, Y., see Hirokawa, T. 633(1993)251
- Kiso, Y., see Hirokawa, T. 633(1993)261
- Kiso, Y., see Hirokawa, T. 634(1993)101
- Kiso, Y., see Hirokawa, T. 638(1993)215
- Kissa, E.
Determination of 3-chloropropanediol and related dioxolanes by gas chromatography 605(1992)134
- Kissinger, P. T., see Linhares, M. C. 615(1993)327
- Kita, H., see Ogawa, S. 643(1993)221
- Kita, M., see Tanishima, K. 613(1993)275
- Kitagawa, T., see Matsuura, A. 617(1993)339
- Kitahara, H., see Ōi, N. 631(1993)177
- Kitamoto, D., see Shinbo, T. 625(1992)101
- Kitamura, E., see Kura, G. 628(1993)241
- Kitani, M., Miyamoto, G. and Odomi, M.
Stereoselective high-performance liquid chromatographic assay for the determination of OPC-18790 enantiomers in human plasma and urine 620(1993)97
- Kitts, D. D., see Aoyama, R. G. 626(1992)271
- Kitts, D. D., see Gentleman, M. S. 633(1993)105
- Kiyama, M., see Kataoka, H. 626(1992)239
- Kiyohara, C., see Saitoh, K. 603(1992)231
- Kiyohara, C., see Saitoh, K. 609(1992)341
- Kiyohara, C., Saitoh, K. and Suzuki, N.
Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes 646(1993)397
- Klancke, J. W.
Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63
- Klapper, D. G., see Keating, K. M. 631(1993)269
- Klebovich, I., see Ūrmös, I. 617(1993)168
- Kleef, U. W., Proost, J. H., Roggeveld, J. and Wierda, J. M. K. H.
Determination of rocuronium and its putative metabolites in body fluids and tissue homogenates 621(1993)65
- Kleiböhmer, W., Cammann, K., Robert, J. and Mussenbrock, E.
Determination of explosives residues in soils by micellar electrokinetic capillary chromatography and high-performance liquid chromatography. A comparative study 638(1993)349
- Klein, C. B., see Frenkel, K. 618(1993)289
- Klein, H. and Leubolt, R.
Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259
- Klein, H., see Leubolt, R. 640(1993)271
- Klein, I., Welink, J. and Van der Vijgh, W. J. F.
Determination of Elsamitruicin (BMV-28090) in plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)249
- Klein, L., see O'Brien, T. 613(1993)239
- Klein, R. F. X., see Moore, J. M. 645(1993)273
- Klepárník, K., Fanali, S. and Boček, P.
Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol 638(1993)283
- Klepárník, K., see Šlais, K. 605(1992)167
- Klerer, C. P., see Moore, D. J. 612(1993)310
- Klesper, E., see Hütz, A. 607(1992)79
- Klesper, E., see Küppers, S. 629(1993)345
- Klingenberg, A. and Seubert, A.
Comparison of silica-based and polymer-based cation exchangers for the ion chromatographic separation of transition metals 640(1993)167
- Klink, F., see Bartig, D. 606(1992)43
- Klohr, S. E., see Liu, J. 632(1993)45
- Kloudová, M., see Schneiderka, P. 614(1993)221
- Klus, H., see Pachinger, A. 620(1993)55
- Knipping, B. and Türck, F.
Quantitative analysis of fluid inclusions in evaporites by ion chromatography 640(1993)279
- Knize, M. G., Felton, J. S. and Gross, G. A.
Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253
- Knize, M. G., see Murray, S. 616(1993)211
- Knock, S. L., see Kurosky, A. 631(1993)281
- Knuts, H., see Duchateau, A. L. L. 623(1992)237
- Kobayashi, H., see Magara, H. 617(1993)59
- Kobayashi, H., Ohyama, K., Tomiyama, N., Jimbo, Y., Matano, O. and Goto, S.
Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197
- Kobayashi, K., see Chiba, H. 613(1993)132
- Kobayashi, N., see Yoshida, T. 613(1993)185

- Kobayashi, S., see Magara, H. 617(1993)59
Kobayashi, T., see Tojo, H. 605(1992)205
Koberda, M., Konkowski, M., Youngberg, P., Jones, W. R. and Weston, A.
Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235
Koch, H., see Guggisberg, D. 624(1992)425
Kocova El-Arini, S., see Carlin, A. S. 614(1993)324
Koda, R. T., see Li, W. Y. 619(1993)148
Kodama, M., see Sano, A. 621(1993)157
Koedijk, D. G. A. M., see Welling-Wester, S. 646(1993)37
Koel, M., see Nebinger, P. 619(1993)342
Koh, E. V., Bissell, M. G. and Ito, R. K.
Measurement of vitamin C by capillary electrophoresis in biological fluids and fruit beverages using a stereoisomer as an internal standard 633(1993)245
Kohashi, K., see Tsuruta, Y. 617(1993)213
Kohn, E. C., see Holmes, K. A. 613(1993)317
Kohne, B., see Kraus, A. 609(1992)277
Kohno, T., see Kuwata, K. 643(1993)25
Koishi, M., see Honda, F. 609(1992)49
Koistinen, J., see Sinkkonen, S. 641(1993)309
Koivisto, P., see Kostiaainen, R. 647(1993)91
Kojima, E., Kai, M. and Ohkura, Y.
Determination of tryptophan in human serum by high-performance liquid chromatography with pre-column fluorescence derivatization using phenylglyoxal 612(1993)187
Kok, W. T., see Van Asten, A. C. 644(1993)83
Kokatsu, J., see Suwa, T. 617(1993)105
Kokko, M.
Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231
Kokko, M.
Gas chromatographic screening for neostigmine and physostigmine using temperature-programmed retention indices 648(1993)501
Kokue, E., see Shin, H.-C. 620(1993)39
Kolehmainen, E., see Sinkkonen, S. 641(1993)309
Kolic, T. M., see Thompson, T. S. 648(1993)213
Kollie, T. O., see Abraham, M. H. 646(1993)351
Komatsu, H., Yoshii, K., Ishimitsu, S., Okada, S. and Takahata, T.
Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17
Komenda, J., see Ritter, S. 625(1992)21
Kondo, J., Imaoka, T., Kawasaki, T., Nakanishi, A. and Kawahara, Y.
Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75
Kondo, M., see Yokoyama, Y. 643(1993)169
Konečný, K., see Koutek, B. 626(1992)215
König, A., see Schoene, K. 605(1992)257
König, W. A., see Bornscheuer, U. 606(1992)288
König, W. A., see Granville, C. P. 622(1993)21
Koning, M. M., see Boomsma, F. 621(1993)82
Konishi, H., Neff, W. E. and Mounts, T. L.
Correlation of reversed-phase high-performance liquid chromatography and gas-liquid chromatography for fatty acid compositions of some vegetable oils 629(1993)237
Konkol, R. J., see Murphey, L. J. 613(1993)330
Konkowski, M., see Koberda, M. 602(1992)235
Konrat, H., see Reymond, P. 616(1993)221
Kontsas, H., Rosenberg, C., Jäppinen, P. and Riekkola, M.-L.
Glass fibre prefilter-XAD-2 sampling and gas chromatographic determination of airborne chlorophenols 636(1993)255
Konwalinka, G., see Stuppner, H. 609(1992)375
Koons, J., see Lantz, R. J. 614(1993)175
Koopman, F. J., see Burger, D. M. 622(1993)235
Køppen, B.
Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168
Koppenhoefer, B., see Lohmiller, K. 634(1993)65
Kord, A. S. and Khaledi, M. G.
Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125
Korfmacher, W. A., see Abián, J. 629(1993)267
Korfmacher, W. A., see Hansen, Jr., E. B. 603(1992)157
Kořínková, V., see Buzinkaiová, T. 638(1993)231
Korman, M., Vindevogel, J. and Sandra, P.
Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366
Korpela, T., see Paavilainen, S. 634(1993)273
Korte, W. D.
Determination of hydroxylamine in aqueous solutions of pyridinium aldoximes by high-performance liquid chromatography with UV and fluorometric detection 603(1992)145
Kostiainen, R., Bruins, A. P. and Häkkinen, V. M. A.
Identification of degradation products of some chemical warfare agents by capillary electrophoresis-ionspray mass spectrometry 634(1993)113
Kostiainen, R., Franssen, E. J. F. and Bruins, A. P.
Capillary zone electrophoresis-ionspray mass spectrometry of a synthetic drug-protein conjugate mixture 647(1993)361
Kostiainen, R., Koivisto, P. and Peltonen, K.
Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 647(1993)91
Kostic, D., see Barua, A. B. 617(1993)257
Koswig, S., see Molnar, I. 605(1992)49
Kottke, B. A., see O'Brien, T. 613(1993)239
Kotz, R., see Mader, R. M. 613(1993)311
Kouno, Y., Ishikura, C., Homma, M. and Oka, K.
Simple and accurate high-performance liquid chromatographic method for the measurement of three antiepileptics in therapeutic drug monitoring 622(1993)47

- Koutek, B., Hoskovec, M., Konečný, K. and Vrkoč, J.
Gas chromatographic determination of vapour pressures of pheromone-like acetates 626(1992)215
- Kovačičová, J., see Tekel', J. 643(1993)291
- Kováts, E., see Fóti, G. 630(1993)1
- Kováts, E., see Reddy, K. S. 609(1992)229
- Koyama, J., Nomura, J., Shiojima, Y., Ohtsu, Y. and Horii, I.
Effect of column length and elution mechanism on the separation of proteins by reversed-phase high-performance liquid chromatography 625(1992)217
- Kozekov, I. D., see Palamareva, M. D. 606(1992)113
- Kozelka, J., see Gonnet, F. 648(1993)279
- Kozik, A. and Rapala-Kozik, M.
Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349
- Kraak, J. C., see Busch, S. 635(1993)119
- Kraak, J. C., Busch, S. and Poppe, H.
Study of protein-drug binding using capillary zone electrophoresis 608(1992)257
- Kraak, J. C., see Stegeman, G. 634(1993)149
- Krachak, A. N., see Dolgonosov, A. M. 640(1993)351
- Kraft, K., see Gebhardt, S. 638(1993)235
- Kragten, E. A., Kamerling, J. P. and Vliegthart, J. F. G.
Composition analysis of carboxymethylcellulose by high-pH anion-exchange chromatography with pulsed amperometric detection 623(1992)49
- Krähenbühl, S., see Hasler, F. 620(1993)73
- Krahn, M. M., Ylitalo, G. M., Buzitis, J., Chan, S.-L. and Varanasi, U.
Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15
- Kram, T. C., see Moore, J. M. 645(1993)273
- Kramer Nielsen, K. and Brøsen, K.
High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87
- Krapf, R., see Hasler, F. 620(1993)73
- Kraus, A., Schumann, U., Kraus, G., Kohne, B. and Praefcke, K.
Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277
- Kraus, A., see Soják, L. 609(1992)283
- Kraus, G., see Kraus, A. 609(1992)277
- Kraus, G., see Soják, L. 609(1992)283
- Krauwinkel, W. J. J., Volkens-Kamermans, N. J. and Van Zijtveld, J.
Determination of amoxicillin in human plasma by high-performance liquid chromatography and solid phase extraction 617(1993)334
- Kreek, M. J., see Chou, J. Z. 613(1993)359
- Kreis, W., see Gaus, H.-J. 635(1993)319
- Krejčí, M., see Horká, M. 637(1993)96
- Křen, V., see Kysilka, R. 630(1993)415
- Kresin, L., see Kunitani, M. 632(1993)19
- Kriaris, M. S., see Ingalls, S. T. 619(1993)9
- Kristensen, H. K. and Hansen, S. H.
Separation of polymyxins by micellar electrokinetic capillary chromatography 628(1993)309
- Křivánková, L., Gebauer, P., Thormann, W., Mosher, R. A. and Boček, P.
Options in electrolyte systems in combined capillary isotachopheresis and capillary zone electrophoresis 638(1993)119
- Krivoy, N., see Schlüter, H. 625(1992)3
- Krock, K. A., Raganathan, N. and Wilkins, C. L.
Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153
- Kroczek, R. A.
Southern and Northern analysis (Review) 618(1993)133
- Krogh, M., Christophersen, A. S. and Rasmussen, K. E.
Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41
- Krogh, S. K., see Bauer, J. F. 648(1993)175
- Krol, J., Alden, P. G., Morawski, J. and Jackson, P. E.
Ion chromatography of alkylamines and alkanolamines using conductivity detection 626(1992)165
- Krol, J., see Romano, J. P. 602(1992)205
- Krol, J., see Romano, J. P. 640(1993)403
- Kroviarski, Y., Cochet, S., Martineau, P., Cartron, J. P. and Bertrand, O.
Evaluation of several affinity chromatographic supports for the purification of maltose-binding protein from *Escherichia coli* 633(1993)273
- Krstulović, A. M., see Lesellier, E. 641(1993)137
- Krstulovic, A. M., see Lesellier, E. 645(1993)29
- Krüger, M., see Czichocki, G. 604(1992)213
- Kruger, P. B., De V. Albrecht, C. F. and Van Jaarsveld, P. P.
Use of guanidine hydrochloride and ammonium sulfate in comprehensive in-line sorption enrichment of xenobiotics in biological fluids by high-performance liquid chromatography 612(1993)191
- Kruger, P. B., see Seifart, H. I. 619(1993)285
- Krull, I. S., see Lurie, I. S. 629(1993)143
- Krull, I. S., see Magiera, D. J. 606(1992)264
- Krull, I. S., see Mazzeo, J. R. 606(1992)291
- Krull, I. S., see Zhou, F.-X. 609(1992)103
- Krull, I. S., see Zhou, F.-X. 619(1993)93
- Krull, I. S., see Zhou, F.-X. 648(1993)357
- Kryger, S., see Olsen, L. 636(1993)231
- Krysén, B., see Bergqvist, Y. 615(1993)297
- Kubinec, R., see Soják, L. 609(1992)283
- Kucharczyk, N.
Estimation of the lower limit of quantitation, a method detection performance parameter for biomedical assays, from calibration curves 612(1993)71
- Kucharczyk, N., see Jacala, A. 614(1993)285
- Kucharczyk, N., see Romanyshyn, L. A. 622(1993)223
- Kucharczyk, N., see Romanyshyn, L. A. 622(1993)229

- Kučová, D., Maryšková, D., Davidková, P. and Gasparič, J.
High-performance liquid chromatographic determination of methoxsalen in plasma after liquid–solid extraction 614(1993)340
- Küçükislamoglu, M., see Özden, S. 609(1992)402
- Kudelin, B. K., Gavrilina, L. V. and Kaminski, Y. L.
Isotope effects in liquid chromatography of imipramine and desmethylimipramine 636(1993)243
- Kudo, K., see Ito, S. 617(1993)119
- Kuehl, D. W., see Serrano, J. 615(1993)203
- Kuhn, A. O., see Huynh, T. K. X. 626(1992)301
- Kühn, I., see Valenta, H. 613(1993)295
- Kuhr, S., see Finger, A. 624(1992)293
- Kuijpers, P. H., Gerding, T. K. and De Jong, G. J.
Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223
- Kuksis, A.
Advances in lipid methodology (edited by W. W. Christie) (Book Review) 630(1993)447
- Kulasek, G. W., see Puchala, R. 623(1992)63
- Kulshrestha, G., see Singh, S. B. 637(1993)109
- Kunath, A., Henkel, B. and Wagner, J.
Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119
- Kung, Jr., L., see Geiser, F. O. 631(1993)1
- Kunitani, M. and Kresin, L.
High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19
- Kunnas, A. V. and Jauhiainen, T.-P.
Separation and identification of free amino acid enantiomers in peat by capillary gas chromatography 628(1993)269
- Künstner, P., see Chollet, D. 629(1993)89
- Kunze, H. and Bohn, E.
Separation and analysis of amino alcohol-containing diacylglycerophospholipids and their hydrolytic metabolites 636(1993)221
- Künzi, H.-P., see Rissler, K. 635(1993)89
- Kuo, J.-S., see Cheng, F.-C. 615(1993)225
- Kuo, J.-S., see Cheng, F.-C. 617(1993)227
- Kuo, M., see Keating, K. M. 631(1993)269
- Kupchik, E. J.
Structure–gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223
- Kupchik, E. J.
Structure–gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182
- Küppers, S., Grosse-Ophoff, M. and Klesper, E.
Influence of linear velocity and multigradient programming in supercritical fluid chromatography 629(1993)345
- Kuppusamy, M., see George, N. 604(1992)285
- Kura, G.
Anion-exchange selectivity of cyclic phosphate oligomers 644(1993)198
- Kura, G., Kitamura, E. and Baba, Y.
Temperature dependence of the anion-exchange chromatographic behaviour of cyclic phosphate oligomers and their anion-exchange separation 628(1993)241
- Kurenbin, O. I., see Belenkii, B. G. 645(1993)1
- Kuroda, N., see Nakashima, K. 619(1993)1
- Kurosaki, E., see Kanazawa, H. 632(1993)79
- Kurosawa, K., see Hayakawa, K. 620(1993)25
- Kurosawa, T., see Chiba, H. 613(1993)132
- Kurosky, A., Miller, B. T. and Knock, S. L.
Kinetic analysis of biotinylation of specific residues of peptides by high-performance liquid chromatography 631(1993)281
- Kusaka, T. and Ikeda, M.
Liquid chromatography–mass spectrometry of fatty acids including hydroxy and hydroperoxy acids as their 3-methyl-7-methoxy-1,4-benzoxazin-2-one derivatives 639(1993)165
- Kussak, A., Andersson, B. and Andersson, K.
Automated sample clean-up with solid-phase extraction for the determination of aflatoxins in urine by liquid chromatography 616(1993)235
- Küstners, E., see Drewe, J. 609(1992)395
- Kutlar, F. and Huisman, T. H. J.
New ultra-micro high-performance liquid chromatographic method for determining the γ chain composition of hemoglobin F in normal adults 620(1993)183
- Kutsuna, H., Ohtsu, Y. and Yamaguchi, M.
Synthesis and characterization of highly stable polymer-coated aminosilica packing material for high-performance liquid chromatography 635(1993)187
- Kuwamoto, T., see Hirayama, N. 639(1993)333
- Kuwano, M., see Matsuura, K. 621(1993)173
- Kuwata, K., see Tsujino, Y. 642(1993)383
- Kuwata, K., Yamashita, Y., Nakashima, S., Nakato, Y., Kohno, T., Tanaka, S., Okumura, T. and Yamaguchi, Y.
Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25
- Kuwatsuka, S., see Spitzer, T. 643(1993)305
- Kuypers, A. W. H. M., Willems, P. M. W., Van der Schans, M. J., Linssen, P. C. M., Wessels, H. M. C., De Bruijn, C. H. M. M., Everaerts, F. M. and Mensink, E. J. B. M.
Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149
- Kvernheim, A. L., see Wesén, C. 625(1992)257
- Kwakkenbos, G. T. C., see Van Leuken, R. G. J. 626(1992)81
- Kwakkenbos, G. T. C., see Van Leuken, R. G. J. 647(1993)131
- Kyle, D. J., see Chen, X. B. 617(1993)241
- Kynaston, J. A., see Fleming, S. C. 640(1993)293
- Kysilka, R. and Křen, V.
Determination of Lovastatin (mevinolin) and mevinolinic acid in fermentation liquids 630(1993)415

L

- LaCreta, F. P., see Brennan, J. M. 620(1993)121
- Lacroix, C., Wojciechowski, F. and Danger, P.
Monitoring of benzodiazepines (clobazam, diazepam and their main active metabolites) in human plasma by column-switching high-performance liquid chromatography 617(1993)285
- Lacroix, G., see Page, B. D. 648(1993)199
- Lader, M., see Keating, J. 615(1993)237
- Laethem, M. E., Rosseel, M. T., Wijnant, P. and Belpaire, F. M.
Chiral high-performance liquid chromatographic determination of oxprenolol in plasma 621(1993)225
- Lafosse, M., see Brossard, S. 623(1992)323
- Lafosse, M., Marinier, P., Joseph, B. and Dreux, M.
Study of amphiphilic behaviour of alkylglycoside surfactants using reversed-phase liquid chromatography 623(1992)277
- Legendijk, J., see Ubink, J. B. 620(1993)254
- Lagerström, P.-O., see Andersen, C. 615(1993)159
- Lagerström, P.-O., see Andersson, T. 619(1993)291
- Lagerström, P.-O., see Balmér, K. 631(1993)191
- Lagu, A. L., see Strega, M. A. 630(1993)337
- Lahtiperä, M., see Sinkkonen, S. 641(1993)309
- Lai, F. and Sheehan, T.
Enhancement of detection sensitivity and cleanup selectivity for tobramycin through pre-column derivatization 609(1992)173
- Lai, J.-S., see Cheng, F.-C. 615(1993)225
- Lai, J.-S., see Cheng, F.-C. 617(1993)227
- Lai, J. Y. K., Matisová, E., He, D., Singer, E. and Niki, H.
Evaluation of capillary gas chromatography for the measurement of C₂-C₁₀ hydrocarbons in urban air samples for air pollution research 643(1993)77
- Lai, Y.-H., Ang, S.-G. and Li, H.-C.
High-performance liquid chromatographic study of acenaphthaleno[1,2-*e*]pyrene, phenanthro[9,10-*e*]pyrene and their dihydro derivatives 606(1992)251
- Lajunen, L. H. J., see Virtanen, V. 617(1993)291
- Laker, M. F., see Fleming, S. C. 640(1993)293
- Lakke, J. P. W. F., see Wolthers, B. G. 622(1993)33
- Laksana, S. and Haddad, P. R.
Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57
- Laksana, S., see Haddad, P. R. 640(1993)135
- Lalande, M., see Brent Miller, R. 614(1993)293
- Lam, S., see Zhang, Z. 603(1992)279
- Lam, T.-H., see Lam, Y. W. F. 612(1993)166
- Lam, Y. W. F., Chan, D. C. N., Rodriguez, S. Y., Lintakoon, J. H. and Lam, T.-H.
Sensitive high-performance liquid chromatographic assay for the determination of chlorhexidine in saliva 612(1993)166
- Lamard, M., see Verne-Mismer, J. 645(1993)251
- Lamb, J. D.
Foreword 602(1992)1
- Lamb, J. D., Smith, R. G. and Jagodzinski, J.
Anion chromatography with a crown ether-based stationary phase and an organic modifier in the eluent 640(1993)33
- Lamb, J. D. and Ye, Y. K.
Separation of nucleotides and nucleosides by gradient macrocycle-based ion chromatography 602(1992)189
- Lambert, D., Adjalla, C., Felden, F., Benhayoun, S., Nicolas, J. P. and Guéant, J. L.
Identification of vitamin B₁₂ and analogues by high-performance capillary electrophoresis and comparison with high-performance liquid chromatography 608(1992)311
- Lambert, S., see Reymond, P. 616(1993)221
- Lamiable, D., see Trenque, T. 615(1993)343
- Lamiable, D., Vistelle, R., Trenque, T., Fay, R., Millart, H. and Choisy, H.
Sensitive high-performance liquid chromatographic method for the determination of coumarin in plasma 620(1993)273
- Lammi-Keefe, C., see Ma, Y. 616(1993)31
- Lamparter, E.
High-performance liquid chromatographic determination of mexiletine in film-coated tablets using a new polymeric stationary phase 635(1993)155
- Lamparter, E., see Hampe, T. R. E. 634(1993)205
- Land, S. L., see Woodcock, E. A. 619(1993)121
- Landers, J. P., Schuchard, M. D., Subramaniam, M., Sismelich, T. P. and Spelsberg, T. C.
High-performance capillary electrophoretic analysis of chloramphenicol acetyl transferase activity 603(1992)247
- Landuyt, J., see Delbeke, F. T. 621(1993)209
- Langenfeld, J. J., see Hawthorne, S. B. 642(1993)301
- Langenhuizen, M. H. J. M. and Janssen, P. S. L.
Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311
- Langer, S. H., see Deng, Z. 626(1992)159
- Langseth, W. and Clasen, P.-E.
Automation of a clean-up procedure for determination of trichothecenes in cereals using a charcoal-alumina column 603(1992)290
- Långström, B., see Westerberg, G. 645(1993)319
- Lantz, R. J., Farid, K. Z., Koons, J., Tenbarge, J. B. and Bopp, R. J.
Determination of fluoxetine and norfluoxetine in human plasma by capillary gas chromatography with electron-capture detection 614(1993)175
- Lapicque, F., see Muller, N. 616(1993)261
- Larguier, R., see Desarnaud, F. 603(1992)95
- Larsen, R., see Altmayer, P. 612(1993)326
- Larson, J. R., see Cortes, H. J. 607(1992)131
- Larsson, L., see Elmroth, I. 628(1993)93
- Larsson, L., see Mielniczuk, Z. 623(1992)115
- Larsson, M., see Göhlin, K. 634(1993)31
- Larsson, M., see Göhlin, K. 645(1993)41
- Larsson, P., see Wesén, C. 625(1992)257
- Larsson, S., see Balmér, K. 631(1993)191

- Lartigue-Mattei, C., Lauro-Marty, C., Bastide, M., Berger, J. A., Chabard, J. L., Goutay, E. and Aiache, J. M.
Determination of phloroglucinol in human plasma by gas chromatography-mass spectrometry 617(1993)140
- Latham, V., see Nichols, P. D. 643(1993)189
- La Torre, F., see Gallinella, B. 639(1993)193
- La Torre, F., see Gasparrini, F. 633(1993)81
- Lau, E. and Bacic, A.
Capillary gas chromatography of partially methylated alditol acetates on a high-polarity, cross-linked, fused-silica BPX70 column 637(1993)100
- Lau, S.-L. and Stenstrom, M. K.
Discussion on "Alternatives to methanol-water elution of solid-phase extraction columns for the fractionation of high log K_{ow} organic compounds in aqueous environmental samples" by Durhan *et al.*, 646(1993)439
- Lauber, J. W., see Degen, P. H. 623(1992)191
- Laurent, J. L., see Van Nifterik, L. 640(1993)335
- Laurent, T. C.
History of a theory 633(1993)1
- Lauro-Marty, C., see Lartigue-Mattei, C. 617(1993)140
- Lausecker, B. B., see Ranalder, U. B. 617(1993)129
- Lavagnini, I., see Pastore, P. 634(1993)47
- Lawrence, J. F., see Janeček, M. 644(1993)321
- Lawson, A. M., see Davies, M. J. 646(1993)317
- Lawson, D., see Zaromb, S. 643(1993)107
- Layet, S., see Bihoreau, N. 612(1993)49
- Layton, J., see Nice, E. 646(1993)159
- Leathard, D. A., see Allen, D. W. 629(1993)283
- Lebert, A., see Lesellier, E. 633(1993)9
- Lebl, M.
Observation of a conformational effect in peptide molecule by reversed-phase high-performance liquid chromatography 644(1993)285
- Leblanc, Y., Gilbert, R., Duval, M. and Hubert, J.
Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185
- Lebuhn, M. and Hartmann, A.
Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255
- Lechevrel, C., see Cren, H. 615(1993)23
- Lecoq, A.-F., Di Biase, S. and Montanarella, L.
Fraction collection after an optimized micellar electrokinetic capillary chromatographic separation of nucleic acid constituents 638(1993)363
- Le Corre, P., see Le Guévello, P. 622(1993)284
- Lederer, F., see Bridonneau, P. 616(1993)197
- Lederer, M.
Adsorption chromatography on cellulose. VII. Chiral separations on cellulose with aqueous solvents 604(1992)55
- Lederer, M., see Huynh, T. K. X. 626(1992)301
- Lederer, M., see Huynh, T. K. X. 645(1993)185
- Lederer, M., see Xuan, H. T. K. 635(1993)346
- Lee, A. L., see O'Keefe, D. O. 627(1992)137
- Lee, B. L., see Liau, L. S. 612(1993)63
- Lee, B. L., Ong, H. Y., Shi, C. Y. and Ong, C. N.
Simultaneous determination of hydroquinone, catechol and phenol in urine using high-performance liquid chromatography with fluorimetric detection 619(1993)259
- Lee, E. J. D., see Ching, C. B. 634(1993)215
- Lee, H.-B., Peart, T. E. and Hong-You, R. L.
In situ extraction and derivatization of pentachlorophenol and related compounds from soils using a supercritical fluid extraction system 605(1992)109
- Lee, H.-B., Peart, T. E. and Hong-You, R. L.
Determination of phenolics from sediments of pulp mill origin by *in situ* supercritical carbon dioxide extraction and derivatization 636(1993)263
- Lee, H. K., see Ng, C. L. 632(1993)165
- Lee, H. K., see Yao, Y. J. 637(1993)195
- Lee, H. S. and Hong, V.
Chromatographic analysis of anthocyanins (Review) 624(1992)221
- Lee, K.-J., Heo, G. S., Kim, N. J. and Moon, D. C.
Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243
- Lee, K.-J., Jin Lee, J. and Cheul Moon, D.
Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135
- Lee, K. S., see Han, S. H. 648(1993)283
- Lee, M. L., see Raynie, D. E. 638(1993)75
- Lee, M. S., see Liu, J. 632(1993)45
- Lee, S. H., Berthod, A. and Armstrong, D. W.
Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83
- Lee, S. T., see Cui, Y. 625(1992)131
- Lee, W.-C.
Plate-height equation for non-linear chromatography 606(1992)153
- Lee, Y.-T., see Hsu, M.-C. 609(1992)181
- Leehey, D. J., see Reid, R. W. 614(1993)117
- Leeming, R., see Nichols, P. D. 643(1993)189
- Leenheers, L. H., Engel, R., Spruit, W. E. T., Meuling, W. J. A. and Jongen, M. J. M.
Determination of methyl 5-hydroxy-2-benzimidazole carbamate in urine by high-performance liquid chromatography with electrochemical detection 613(1993)89
- Lefrançois, L. and Gaudreau, P.
Basal and stimulated cyclic adenosine 3',5'-monophosphate production in rat adenopituitary homogenates: direct determination by high-performance liquid chromatography 619(1993)116
- Legrand, M., De Angelis, M. and Maupetit, F.
Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

- Legrand, R., Falconnet, J.-B., Prevost, D., Schoot, B. and Devaux, P.
Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3
- Le Guévello, P., Le Corre, P., Chevanne, F. and Le Verge, R.
High-performance liquid chromatographic determination of bupivacaine in plasma samples for biopharmaceutical studies and application to seven other local anaesthetics 622(1993)284
- Lehmann, J., see Lütkemeyer, D. 639(1993)57
- Leibl, H., Erber, W., Eibl, M. M. and Mannhalter, J. W.
Separation of polysaccharide-specific human immunoglobulin G subclasses using a Protein A Superose column with a pH gradient elution system 639(1993)51
- Lemaire, D., see Gonnet, F. 648(1993)279
- Lemière, F., Esmans, E. L., Van Dongen, W., Van den Eeckhout, E. and Van Onckelen, H.
Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211
- Lemko, C. H., Caillé, G. and Foster, R. T.
Stereospecific high-performance liquid chromatographic assay of ibuprofen: improved sensitivity and sample processing efficiency 619(1993)330
- Lemmens, P. J. M. R., see Van Haaster, C. M. C. J. 617(1993)233
- Lemmo, A. V. and Jorgenson, J. W.
Two-dimensional protein separation by microcolumn size-exclusion chromatography-capillary zone electrophoresis 633(1993)213
- Lemnge, M. M., Rønn, A., Flachs, H. and Bygbjerg, I. C.
Simultaneous determination of dapsone, monoacetyldapsone and pyrimethamine in whole blood and plasma by high-performance liquid chromatography 613(1993)340
- Le Moing, J. P., Edouard, S. and Levron, J. C.
Determination of risperidone and 9-hydroxyrisperidone in human plasma by high-performance liquid chromatography with electrochemical detection 614(1993)333
- Lemoisson, E., see Cren, H. 615(1993)23
- Lenoir, A., see Bouliou, R. 615(1993)352
- Lenti, L., see Previti, M. 605(1992)221
- Leonard, S. A., Wong, S. C. and Nyce, J. W.
Quantitation of 5-methylcytosine by one-dimensional high-performance thin-layer chromatography 645(1993)189
- Lepoutre, L. G., see Van Hoof, V. O. 646(1993)235
- Lepper, H., see Schmitz, G. 620(1993)158
- Lepschy von Gleissenthall, J., see Schewes, R. 641(1993)89
- Le Quéré, J.-L., see Lübke, M. 646(1993)307
- Lercker, G., see Bortolomeazzi, R. 626(1992)109
- Le Roux, M., see Burger, B. V. 642(1993)117
- Lesage, S.
Methods for the analysis of hazardous wastes (Review) 642(1993)65
- Lesage, S., see Xu, H. 607(1992)139
- Lesellier, E., Krstulović, A. M. and Tchaplá, A.
Specific effects of modifiers in subcritical fluid chromatography of carotenoid pigments 641(1993)137
- Lesellier, E., Tchaplá, A. and Krstulovic, A. M.
Use of carotenoids in the characterization of octadecylsilane bonded columns and mechanism of retention of carotenoids on monomeric and polymeric stationary phases 645(1993)29
- Lesellier, E., Tchaplá, A., Marty, C. and Lebert, A.
Analysis of carotenoids by high-performance liquid chromatography and supercritical fluid chromatography (Review) 633(1993)9
- Lesko, J., Jakubik, T. and Michalkova, A.
Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294
- Leubolt, R., see Klein, H. 640(1993)259
- Leubolt, R. and Klein, H.
Determination of sulphite and ascorbic acid by high-performance liquid chromatography with electrochemical detection 640(1993)271
- Le Verge, R., see Le Guévello, P. 622(1993)284
- Levesque, J., see Rey, J.-P. 605(1992)124
- Levesque, J., see Rey, J.-P. 641(1993)180
- Levin, G., see Bromberg, L. 634(1993)183
- Levin, J.-O., see Lindahl, R. 643(1993)35
- Levine, M. L., Cabezas, Jr., H. and Bier, M.
Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113
- Levron, J. C., see Le Moing, J. P. 614(1993)333
- Levsen, K., see Sollinger, S. 609(1992)297
- Levsen, K., see Volmer, D. 647(1993)235
- Levy, R. S., see Miller, J. J. 627(1992)153
- Lewis, D. M., see Burkinshaw, S. M. 640(1993)413
- Lewis, J. R. E., Morley, J. S. and Venn, R. F.
Analysis of human β -endorphin 28-31 (melanotropin potentiating factor) and analogues by high-performance liquid chromatography of their 9-fluorenylmethoxycarbonyl derivatives 615(1993)37
- Li, C. M., see Hutchens, T. W. 604(1992)125
- Li, F., Bi, H., Côté, M. and Cooper, S.
Identification and determination of the enantiomers of moprolool and their metabolites in human urine by high-performance liquid chromatography and gas chromatography-mass spectrometry 622(1993)187
- Li, H., see Wang, H. 609(1992)414
- Li, H.-C., see Lai, Y.-H. 606(1992)251
- Li, J., see Caldwell, K. D. 604(1992)63
- Li, J.-T., see Caldwell, K. D. 604(1992)63
- Li, S. and Purdy, W. C.
Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109
- Li, S. F. Y., see Ng, C. L. 632(1993)165
- Li, S. F. Y., see Yao, Y. J. 637(1993)195
- Li, W., Moussa, A. and Giese, R. W.
Capillary electrophoresis of fluorescein-ethylenediamine-5'-deoxynucleotides 608(1992)171

- Li, W., Moussa, A. and Giese, R. W.
Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315
- Li, W., see Tao, L. 607(1992)19
- Li, W., see Yeung, E. S. 608(1992)73
- Li, W. Y., Seah, S. K. L. and Koda, R. T.
Determination of mitomycin C in human aqueous humor and serum by high-performance liquid chromatography 619(1993)148
- Li, X.-Y., see Zhang, C.-X. 612(1993)287
- Li, Z., see Zhao, Q. 635(1993)342
- Liang, G., see Jacob III, P. 619(1993)49
- Liapis, A. I., see McCoy, M. A. 644(1993)1
- Liau, J.-K., see Yu, H.-Y. 615(1993)77
- Liau, L. S., Lee, B. L., New, A. L. and Ong, C. N.
Determination of plasma ascorbic acid by high-performance liquid chromatography with ultraviolet and electrochemical detection 612(1993)63
- Libertucci, D., see Silvestro, L. 647(1993)261
- Liboni, M., see Davi, M. L. 644(1993)345
- Lichon, M. J.
Sample preparation for chromatographic analysis of food (Review) 624(1992)3
- Liebich, H. M., Gesele, E., Wahl, H. G., Wirth, C., Wöll, J. and Hušek, P.
Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289
- Liefting, A. J. M., see Van Gijn, R. 614(1993)299
- Lie Ken Jie, M. S. F. and Choi, Y. C.
Gas chromatography-mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271
- Liem, A. K. D., Baumann, R. A., De Jong, A. P. J. M., Van der Velde, E. G. and Van Zoonen, P.
Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317
- Liem, A. K. D., see De Jong, A. P. J. M. 643(1993)91
- Liem, A. K. D., see Van der Velde, E. G. 626(1992)135
- Lien, M.-H., Huang, B.-C. and Hsu, M.-C.
Determination of ascorbyl dipalmitate in cosmetic whitening powders by liquid chromatography 645(1993)362
- Lienhard, S., see Caslavská, J. 638(1993)335
- Lienhard, S., see Thormann, W. 636(1993)137
- Lim, B. G., see Ching, C. B. 634(1993)215
- Lim, K. B., see Yau, W. W. 630(1993)69
- Lin, C.-J., see Jen, J.-F. 629(1993)394
- Lin, C.-W., see Jen, J.-F. 629(1993)394
- Lin, J.-Y., see Yang, M.-H. 631(1993)165
- Lin, J.-Y. and Yang, M.-H.
High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277
- Lin, L. A.
Detection of alkaloids in foods with a multi-detector high-performance liquid chromatographic system 632(1993)69
- Lin, L.-C., see Peng, Y.-T. 617(1993)87
- Lin, S.-K., see Chung, M.-C. 613(1993)168
- Lin, S.-X., see Jin, J.-Z. 614(1993)159
- Lin, Y. Y., Ng, K. J. and Yang, S.
Characterization of flavonoids by liquid chromatography-tandem mass spectrometry 629(1993)389
- Lindahl, R., Levin, J.-O. and Andersson, K.
Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35
- Lindberg, U., see Jansson, M. 626(1992)310
- Linde, S., Welinder, B. S. and Nielsen, J. H.
Analysis of proinsulin and its conversion products by reversed-phase high-performance liquid chromatography (Review) 614(1993)185
- Lindeberg, G., see Hansen, P. 627(1992)125
- Linden, G., see Schmitt, M. 640(1993)419
- Lindner, H., Helliger, W., Dirschlmaier, A., Talasz, H., Wurm, M., Sarg, B., Jaquemar, M. and Puschendorf, B.
Separation of phosphorylated histone H1 variants by high-performance capillary electrophoresis 608(1992)211
- Lindner, W., see Seidel, V. 635(1993)227
- Lindner, W., see Seidel, V. 642(1993)253
- Lindon, J. C., see Wilson, I. D. 617(1993)324
- Ling, C. F., Melian, G. P., Jiminez-Conde, F. and Revilla, E.
High-performance liquid chromatographic analysis of carbofuran residues in tomatoes grown in hydroponics 643(1993)351
- Ling, D., see Dang, Q.- 603(1992)259
- Ling, D., see Dang, Q.- 630(1993)363
- Ling, D. H., see Lu, D. S. 623(1992)55
- Ling, D.-K., see Zhang, C.-X. 612(1993)287
- Ling, D.-K., see Zhang, C.-X. 627(1992)281
- Lingeman, H., see Debets, A. J. J. 608(1992)151
- Lingeman, H., see Slobodnik, J. 642(1993)359
- Lingeman, H., see Steijger, O. M. 615(1993)97
- Lingeman, H., see Van der Hage, E. R. E. 634(1993)263
- Linhares, M. C. and Kissinger, P. T.
Pharmacokinetic studies using micellar electrokinetic capillary chromatography with *in vivo* capillary ultrafiltration probes 615(1993)327
- Link, R., see Bouissel, S. 630(1993)307
- Linssen, P. C. M., see Kuypers, A. W. H. M. 621(1993)149
- Lintakoon, J. H., see Lam, Y. W. F. 612(1993)166
- Liotta, L. A., see Holmes, K. A. 613(1993)317
- Lisi, A. M., Kazlauskas, R. and Trout, G. J.
Gas chromatographic-mass spectrometric quantitation of urinary 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid after derivatization by direct extractive alkylation 617(1993)265
- Lisichkin, G. V., see Mingalyov, P. G. 646(1993)267
- Little, J. L., see Wilder, D. R. 635(1993)221
- Liu, C., see Robbat, Jr., A. 625(1992)277
- Liu, C.-Y., see Yeh, C.-F. 630(1993)275
- Liu, D., see Han, S. H. 648(1993)283
- Liu, G., see Djordjevic, N. M. 629(1993)135
- Liu, G., Svenson, L., Djordjevic, N. and Erni, F.
Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

- Liu, G., see Zhang, R. 646(1993)45
- Liu, H., Delgado, M., Forman, L. J., Eggers, C. M. and Montoya, J. L.
Simultaneous determination of carbamazepine, phenytoin, phenobarbital, primidone and their principal metabolites by high-performance liquid chromatography with photodiode-array detection 616(1993)105
- Liu, J., Volk, K. J., Kerns, E. H., Klohr, S. E., Lee, M. S. and Rosenberg, I. E.
Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45
- Liu, J., see Wang, H. 609(1992)414
- Liu, L., see Evans, P. C. 614(1993)148
- Liu, M. H., Kapila, S., Nam, K. S. and Elseewi, A. A.
Tandem supercritical fluid extraction and liquid chromatography system for determination of chlorinated phenols in solid matrices 639(1993)151
- Liu, T.-Y., see Robbat, Jr., A. 625(1992)277
- Liu, X., see Lou, X. 605(1992)103
- Liu, X., see Lou, X. 626(1992)231
- Liu, X., see Lou, X. 634(1993)281
- Liu, X., see Lou, X. 634(1993)345
- Liu, X.-C., see Adamek, V. 625(1992)91
- Liu, Y. and Wang, Q.
Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73
- Liu, Y.-M. and Sheu, S.-J.
Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196
- Liu, Y.-M. and Sheu, S.-J.
Determination of quaternary alkaloids from *Phellodendri Cortex* by capillary electrophoresis 634(1993)329
- Liu, Y.-M. and Sheu, S.-J.
Determination of ephedrine and pseudoephedrine in Chinese herbal preparations by capillary electrophoresis 637(1993)219
- Liu, Y.-M. and Sheu, S.-J.
Determination of coptisine, berberine and palmatine in traditional Chinese medicinal preparations by capillary electrophoresis 639(1993)323
- Lladó, I., Palou, A. and Pons, A.
Combined enzymic and chromatographic techniques to determine specific radioactivity in free and triglyceride fatty acid plasma fractions 619(1993)21
- Lobell, M. and Schneider, M. P.
2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287
- Lode, H., see Borner, K. 615(1993)174
- Lode, H. N., see Gebhardt, S. 638(1993)235
- Lohmann, R., see Schleyer, E. 614(1993)275
- Lohmiller, K., Bayer, E. and Koppenhoefer, B.
Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65
- Lombard, C., see Desarnaud, F. 603(1992)95
- Long, A. R., see Barker, S. A. 629(1993)23
- Long, T., see Bier, M. 604(1992)73
- Longo, A., see Bruno, G. 619(1993)167
- Loos, W., see Schellens, J. H. M. 615(1993)309
- Lopez, L. M., see Rutledge, D. R. 615(1993)111
- Lopez, M. I., see Del Nozal, M. J. 607(1992)183
- López-Barea, J., see Martínez-Lara, E. 609(1992)141
- López-Pérez, M. J., see Pascual, M. L. 617(1993)51
- López-Roca, J. M., see Almela, L. 607(1992)215
- Loran, J. S., see Penn, S. G. 636(1993)149
- Lorenzo, R. A., see Rubí, E. 605(1992)69
- Lores, M., see Cela, R. 626(1992)117
- Lorkin, P., see Ross, G. A. 636(1993)69
- Lorusso, V., see Guerrieri, A. 617(1993)71
- Lott, H. M., see Walker, C. C. 642(1993)225
- Lotter, H., see Antus, S. 603(1992)133
- Lottspeich, F., see Schwer, C. 623(1992)345
- Lou, X., Liu, X., Sheng, Y. and Zhou, L.
Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103
- Lou, X., Liu, X. and Zhou, L.
Series-coupled capillary columns for the separation of N,(O)-trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281
- Lou, X., Liu, X. and Zhou, L.
Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345
- Lou, X., Liu, X., Zhu, D., Wang, Q. and Zhou, L.
Investigation of the effect of acylation on the enantiomeric separation of amino acid isopropyl esters by gas chromatography 626(1992)231
- Louie, P. K., see Hawthorne, S. B. 642(1993)301
- Louwerse, D. J. and Smit, H. C.
Indirect introduction of liquid samples in gas correlation chromatography 639(1993)207
- Lovdahl, M., Steury, J., Russlie, H. and Canafax, D. M.
Determination of ciprofloxacin levels in chinchilla middle ear effusion and plasma by high-performance liquid chromatography with fluorescence detection 617(1993)329
- Lovdahl, M. J. and Pietrzyk, D. J.
Liquid chromatography and postcolumn indirect detection of glyphosate 602(1992)197
- Lövgren, S., see Bhikhabhai, R. 604(1992)157
- Lövgren, S., see Bhikhabhai, R. 639(1993)67
- Low, G. K. -C.
Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227
- Lowe, C., see Tuncel, A. 634(1993)161
- Lowe, C. R., see McCreath, G. E. 629(1993)201
- Lowe, C. R., see Stewart, D. J. 623(1992)1
- Lu, D. S., Feng, W. Y., Ling, D. H. and Hua, W. Z.
Determination of hydroxy acids as their copper(II) complexes by reversed-phase liquid chromatography with UV detection 623(1992)55

- Lu, F.-L., see Wen, K.-C. 631(1993)241
- Lu, H. H., see Tsai, E. W. 626(1992)245
- Lu, H. S., see Clogston, C. L. 637(1993)55
- Lu, P., see Chen, N. 603(1992)35
- Lu, P., see Chen, N. 606(1992)1
- Lu, P., see Chen, N. 633(1993)31
- Lu, P., see Zou, H. 625(1992)169
- Lu, P., see Zou, H. 644(1993)269
- Lu, W., Cassidy, R. M. and Baranski, A. S.
End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433
- Lualdi, G., see Benfenati, E. 605(1992)129
- Lübke, M., Le Quéré, J.-L. and Barron, D.
Retention behaviour of volatile compounds in normal-phase high-performance liquid chromatography on a diol column 646(1993)307
- Lucas, C., see Bakes, D. M. 615(1993)117
- Lucas, D., Berthou, F., Girre, C., Poitrenaud, F. and Ménez, J.-F.
High-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in serum: a tool for indirect evaluation of cytochrome P4502E1 activity in humans 622(1993)79
- Lucchini, G., see Bortolotti, A. 617(1993)313
- Luckas, B.
Phycotoxins in seafood — toxicological and chromatographic aspects (Review) 624(1992)439
- Ludmir, J., see Alvarez, J. G. 615(1993)142
- Luehr, G., see Jinno, K. 648(1993)71
- Luehrs, D. C., Chesney, D. J. and Godbole, K. A.
Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37
- Lukácsová, M., see Veningerová, M. 622(1993)274
- Lukasewycz, M., see Durhan, E. 629(1993)67
- Lukkari, P., Jumppanen, J., Holma, T., Sirén, H., Jinno, K., Elo, H. and Riekkola, M.-L.
Effect of the buffer solution on the elution order and separation of bis(amidinohydrazones) by micellar electrokinetic capillary chromatography 608(1992)317
- Lukkari, P., see Sirén, H. 632(1993)215
- Lukkari, P., Sirén, H., Pansar, M. and Riekkola, M.-L.
Determination of ten β -blockers in urine by micellar electrokinetic capillary chromatography 632(1993)143
- Lumbsch, H. T., see Feige, G. B. 646(1993)417
- Lund, K., see Hagel, L. 641(1993)63
- Lundahl, P., Watanabe, Y. and Takagi, T.
High-performance hydroxyapatite chromatography of integral membrane proteins and water-soluble proteins in complex with sodium dodecyl sulphate 604(1992)95
- Lundanes, E., see Jablonska, A. 647(1993)341
- Lundell, N.
Implementation and use of gradient predictions for optimization of reversed-phase liquid chromatography of peptides. Practical considerations 639(1993)97
- Lundell, N., see Malmquist, G. 627(1992)107
- Lundell, N. and Markides, K.
Optimization strategy for reversed-phase liquid chromatography of peptides 639(1993)117
- Lundell, N., see Petersson, P. 623(1992)129
- Lundh, T. and Åkesson, B.
Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191
- Lundmark, B.-O., see Bengård, A. 630(1993)287
- Lundqvist, H., see Westerberg, G. 645(1993)319
- Lunina, E. V., see Mingalyov, P. G. 646(1993)267
- Lunte, C. E., see O'Shea, T. J. 608(1992)189
- Lunte, S. M., see O'Shea, T. J. 608(1992)189
- Luo, H., see Seaton, M. J. 621(1993)49
- Luquin, M., see Garcia-Barceló, M. 617(1993)299
- Lurie, I. S.
Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269
- Lurie, I. S.
The analysis of drugs of abuse (edited by T. A. Gough) (Book Review) 623(1992)205
- Lurie, I. S., Cooper, D. A. and Krull, I. S.
High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143
- Lütkemeyer, D., Bretschneider, M., Büntemeyer, H. and Lehmann, J.
Membrane chromatography for rapid purification of recombinant antithrombin III and monoclonal antibodies from cell culture supernatant 639(1993)57
- Lynch, A. M., see Murray, S. 616(1993)211
- Lynch, T. P., see Andrew, M. 640(1993)111
- Lytle, F. E., see Miller, K. J. 648(1993)245

M

- Ma, W., see Bitsch, F. 615(1993)273
- Ma, Y., Wu, Z., Furr, H. C., Lammi-Keefe, C. and Craft, N. E.
Fast minimicroassay of serum retinol (vitamin A) by capillary zone electrophoresis with laser-excited fluorescence detection 616(1993)31
- Ma, Y. and Zhang, R.
Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341
- Ma, Y., Zhang, R. and Cooper, C. L.
Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

- Ma, Z. and Guiochon, G.
Comparison between the hodograph transform method and frontal chromatography for the measurement of binary competitive adsorption isotherms 603(1992)13
- Ma, Z. and Guiochon, G.
Shock layer thickness in the case of wide bands of single components and binary mixtures in non-linear liquid chromatography 609(1992)19
- Mabry, T. J., see Kim, K.-R. 605(1992)241
- MacCrehan, W. A., see Emery, A. P. 606(1992)221
- Macdonald, F., see Bitsch, F. 615(1993)273
- MacDonald, S., see Sharman, M. 603(1992)285
- Macek, K.
HPLC methods in drug analysis (by M. K. Ghosh) (Book Review) 612(1993)340
- Machielsen, P.A.G.M., see VanSommeren, A.P.G. 639(1993)23
- Macka, M. and Borák, J.
Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101
- Mackison, R., see Andrew, M. 640(1993)111
- MacNicoll, A. D., see Kelly, M. J. 620(1993)105
- Macomber, J., see Burford, M. D. 648(1993)445
- MacPhail, R. C., see Raymer, J. H. 619(1993)223
- MacRobert, A. J., see Bishop, S. M. 646(1993)345
- Madajová, V., see Kaniansky, D. 638(1993)137
- Mader, R. M., Rizovski, B., Steger, G. G., Rainer, H., Proppentner, R. and Kotz, R.
Determination of methotrexate in human urine at nanomolar levels by high-performance liquid chromatography with column switching 613(1993)311
- Maderich, A. B. and Sugita, E. T.
Size-exclusion chromatographic determination of dextran sulfate in rat serum 620(1993)137
- Maderich, A. B. and Sugita, E. T.
Determination of polyanionic macromolecules by size-exclusion chromatography 622(1993)278
- Maeda, M., see Ohta, H. 607(1992)154
- Maeda, M., see Sakakura, H. 621(1993)123
- Maes, R. A. A., see Wafelman, A. R. 622(1993)71
- Maesen, L. W., see Duchateau, A. L. L. 603(1992)151
- Magara, H., Kobayashi, H. and Kobayashi, S.
Determination of benidipine hydrochloride in human plasma by capillary column gas chromatography-negative ion chemical ionization mass spectrometry 617(1993)59
- Mägert, A., see Frost, P. 643(1993)379
- Magiera, D. J. and Krull, I. S.
Determination of alkaline phosphatase aggregation by size exclusion high-performance liquid chromatography with low-angle laser light scattering detection 606(1992)264
- Magyar, K., see Forgács, E. 631(1993)207
- Magyar, K., see Guttman, A. 608(1992)175
- Mahanama, K. R. R., see Gundel, L. A. 629(1993)75
- Mahara, R., see Chiba, H. 613(1993)132
- Mahuzier, G., see Baillet, A. 616(1993)311
- Mahuzier, G., see Pianetti, G. A. 630(1993)371
- Mahuzier, G., see Traoré, F. 648(1993)111
- Maidl, F. X., see Schewes, R. 641(1993)89
- Maignial, L., Pibarot, P., Bonetti, G., Chaintreau, A. and Marion, J. P.
Simultaneous distillation-extraction under static vacuum: isolation of volatile compounds at room temperature 606(1992)87
- Maillard, C., see Crespin, F. 644(1993)404
- Maillard, M., see Wolfender, J. L. 647(1993)183
- Maillard, M. P. and Hostettmann, K.
Determination of saponins in crude plant extracts by liquid chromatography-thermospray mass spectrometry 647(1993)137
- Maillard, M. P., Wolfender, J.-L. and Hostettmann, K.
Use of liquid chromatography-thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147
- Majid Khan, M. A., see Mohammad, A. 642(1993)445
- Makino, K., see Murakami, A. 648(1993)157
- Makita, M., see Kataoka, H. 615(1993)136
- Makita, M., see Kataoka, H. 615(1993)197
- Makita, M., see Kataoka, H. 626(1992)239
- Makita, M., see Kataoka, H. 633(1993)311
- Makwana, J. V., see Altria, K. D. 641(1993)147
- Malamataris, S., see Avgerinos, A. 619(1993)324
- Malchova, I. I., see Belenkii, B. G. 609(1992)355
- Malfatto, M. G., see Davi, M. L. 644(1993)345
- Malhautier, L., see Schmitt, M. 640(1993)419
- Malick, A. W., see Guzman, N. A. 608(1992)197
- Malikin, G., see Zhang, Z. 603(1992)279
- Malin, E. L., see Strange, E. D. 624(1992)81
- Malissa, H., see Buchberger, W. 602(1992)51
- Mallet, A. I., see Raza, S. K. 620(1993)243
- Mallinger, A. G., Yao, J. K., Brown, A. S. and Dippold, C. S.
Analysis of complex mixtures of phospholipid classes from cell membranes using two-dimensional thin-layer chromatography and scanning laser densitometry 614(1993)67
- Malmquist, G. and Lundell, N.
Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107
- Maloň, P., see Plešek, J. 626(1992)197
- Mal'tsev, V. G., see Belenkii, B. G. 645(1993)1
- Manabe, M., see Naohara, J. 603(1992)139
- Manceau, F., see Fliniaux, M.-A. 644(1993)193
- Mandjiny, S. and Vijayalakshmi, M. A.
Quantitation of adsorption capacity of immunoglobulin G on histidine-aminohexyl Sepharose and determination of affinity constant 616(1993)189
- Mandrup, G.
Rugged method for the determination of deamidation products in insulin solutions by free zone capillary electrophoresis using an untreated fused-silica capillary 604(1992)267
- Mañes, J., see Font, G. 642(1993)135
- Mañes, J., Font, G. and Picó, Y.
Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195
- Mangia, A., see Careri, M. 647(1993)79
- Mangin, P., see Tracqui, A. 616(1993)95
- Manini, P., see Careri, M. 647(1993)79
- Man in 't Veld, A. J., see Boomsma, F. 621(1993)82

- Manjini, S., see El-Kak, A. 604(1992)29
- Manjón, A., see Castellar, M. R. 648(1993)187
- Mannhalter, J. W., see Leibl, H. 639(1993)51
- Mannhold, R., see Dross, K. 639(1993)287
- Mano, N., Oda, Y., Asakawa, N., Yoshida, Y., Sato, T. and Miwa, T.
Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221
- Mano, N., Oda, Y., Miwa, T., Asakawa, N., Yoshida, Y. and Sato, T.
Conalbumin-conjugated silica gel, a new chiral stationary phase for high-performance liquid chromatography 603(1992)105
- Mansoor, M. A., see Demoz, A. 635(1993)251
- Mansor, S. M., see Ramanathan, S. 615(1993)303
- Mansour, T. S., see Di Marco, M. P. 645(1993)107
- Mant, C. T., see Sereida, T. J. 646(1993)17
- Manville, J. F., see Slater, G. P. 648(1993)433
- Mao, Q. M., Prince, I. G. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81
- Mao, Q. M., Stockmann, R., Prince, I. G. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67
- Mao, Y.-L., see Fu, P. P. 642(1993)107
- Maradeix, V., see Fernandez, C. 617(1993)271
- Marais, J. P., see Escott-Watson, P. L. 604(1992)290
- Marák, J., see Kaniansky, D. 638(1993)137
- Marasas, W. F. O., see Shephard, G. S. 641(1993)95
- Marcé, R. M., see Calull, M. 607(1992)339
- Marcelo-Curto, M. J., see Brites, M. J. 641(1993)199
- Marcenac, F., see Bourguignon, B. 628(1993)171
- Marchal, R., see Davila, A. M. 648(1993)139
- Marchese, S., see Di Corcia, A. 642(1993)163
- Marchese, S., see Di Corcia, A. 642(1993)175
- Marchetti, R., see Colli, M. 643(1993)51
- Marco, M.-P., Sánchez-Baeza, F. J., Camps, F. and Coll, J.
Phytoecdysteroid analysis by high-performance liquid chromatography-thermospray mass spectrometry 641(1993)81
- Marcomini, A., Di Corcia, A., Samperi, R. and Capri, S.
Reversed-phase high-performance liquid chromatographic determination of linear alkylbenzene sulphonates, nonylphenol polyethoxylates and their carboxylic biotransformation products 644(1993)59
- Marengo, E., see Baiocchi, C. 644(1993)259
- Margaron, P., Gaspard, S. and Van Lier, J. E.
Chromatographic analysis of asymmetric sulphophthalocyanines using a diode-array detector 634(1993)57
- Mariani, R., see Candito, M. 617(1993)304
- Marie, J., see Desarnaud, F. 603(1992)95
- Marigo, M., see Tagliaro, F. 638(1993)303
- Marina, M. L., see Garcia, M. A. 646(1993)297
- Marina, M. L., see Valle, A. I. 607(1992)207
- Marinier, P., see Lafosse, M. 623(1992)277
- Marino, M. T., Peggins, J. O. and Brewer, T. G.
High-performance liquid chromatographic method for the determination of a candidate 8-aminoquinoline antimalarial drug (WR 242511) using oxidative electrochemical detection 616(1993)338
- Marion, J. P., see Maignial, L. 606(1992)87
- Mariotti, F., see Rondelli, I. 612(1993)95
- Maris, F. A., see Vervoort, R. J. M. 623(1992)207
- Marka, C., see Jourdil, N. 613(1993)59
- Markell, C. G., see Schmidt, L. 641(1993)57
- Markides, K., see Lundell, N. 639(1993)117
- Markides, K. E., see Pettersson, P. 623(1992)129
- Markides, K. E., see Raynie, D. E. 638(1993)75
- Marko-Varga, G.
Chemical analysis in complex matrices (edited by M. R. Smyth) (Book Review) 639(1993)379
- Markovič, O., Mislovičová, D., Biely, P. and Heinrichová, K.
Chromogenic substrate for *endo*-polygalacturonase detection in gels 603(1992)243
- Markowski, W.
Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283
- Markowski, W. and Matysik, G.
Analysis of plant extracts by multiple development thin-layer chromatography 646(1993)434
- Markowski, W. and Soczewiński, E.
Computer-aided optimization of gradient multiple-development thin-layer chromatography. I. Two-stage development 623(1992)139
- Marle, I., Jönsson, S., Isaksson, R., Pettersson, C. and Pettersson, G.
Chiral stationary phases based on intact and fragmented cellobiohydrolase I immobilized on silica 648(1993)333
- Marle, I., Karlsson, A. and Pettersson, C.
Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185
- Marshall, D. L., see Greaney, M. D. 622(1993)125
- Martens, J. and Banditt, P.
Validation of the analysis of carbamazepine and its 10,11-epoxide metabolite by high-performance liquid chromatography from plasma: comparison with gas chromatography and the enzyme-multiplied immunoassay technique 620(1993)169
- Marti, E., see Giddings, L. D. 603(1992)205
- Martin, F., Verdejo, T. and González-Vila, F. J.
Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377
- Martin, M. W. and Giacomeli, R. A.
Ultratrace anion analysis of high-purity water. A column comparison 644(1993)333
- Martin, P. J., see Hauss, D. J. 613(1993)336
- Martin Alvarez, P. J., see Sánchez Muñoz, G. 623(1992)43
- Martineau, P., see Krovjarski, Y. 633(1993)273
- Martínez, M., see Aguilar, M. 635(1993)127
- Martínez-Castro, J., see García-Raso, A. 607(1992)221

- Martínez-Lara, E., Pascual, P., Toribio, F., López-Barea, J. and Bárcena, J. A.
Rapid method for the determination of glutathione transferase isoenzymes in crude extracts 609(1992)141
- Martínez Navascués, M. C., see Ormad Melero, M. P. 607(1992)311
- Martín Juárez, J., see Bernal, J. L. 607(1992)175
- Martinou, A., Kafetzopoulos, D. and Bouriotis, V.
Isolation of chitin deacetylase from *Mucor rouxii* by immunoaffinity chromatography 644(1993)35
- Martire, D. E., see Zhang, X. 603(1992)193
- Marty, C., see Lesellier, E. 633(1993)9
- Maruo, M., see Hirayama, N. 639(1993)333
- Maruta, H., see Fabri, L. 646(1993)213
- Maruya, S., see Hosoya, K. 625(1992)121
- Maruyama, Y., see Ikarashi, Y. 616(1993)323
- Maruyama, Y., see Ikarashi, Y. 645(1993)219
- Maryšková, D., see Kučová, D. 614(1993)340
- Marzo, A., see Bruno, G. 619(1993)167
- Massart, D. L., see Bourguignon, B. 628(1993)171
- Massart, D. L., see Hamoir, T. 633(1993)43
- Massart, D. L., see Jimidar, M. 636(1993)179
- Massart, D. L., see Keller, H. R. 641(1993)1
- Massart, D. L., see Vandenbosch, C. 612(1993)77
- Masuda, Y., see Katayama, M. 612(1993)33
- Masuyama, A., see Tanaka, M. 648(1993)469
- Matano, O., see Kobayashi, H. 643(1993)197
- Matano, O., see Shiga, N. 643(1993)311
- Mateos, J. L., see Estrella Legaz, M. 607(1992)245
- Mathieu, J., see Van Nifferik, L. 609(1993)335
- Mathôt, R. A. A., Appel, S., Van Schaick, E. A., Soudijn, W., IJzerman, A. P. and Danhof, M.
High-performance liquid chromatography of the adenosine A₁ agonist N⁶-cyclopentyladenosine and the A₁ antagonist 8-cyclopentyltheophylline and its application in a pharmacokinetic study in rats 620(1993)113
- Matisová, E., see Lai, J. Y. K. 643(1993)77
- Matisová, E., Vodný, Š., Škrabáková, S. and Onderová, M.
Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography-mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309
- Matsubara, N., see Terabe, S. 608(1992)23
- Matsui, H., see Ohhira, S. 622(1993)173
- Matsuki, Y., see Suzuki, E. 617(1993)221
- Matsumoto, I., see Ogawa, H. K. 612(1993)145
- Matsumoto, K., Nagata, S., Hattori, H. and Tsuge, S.
Development of directly coupled supercritical fluid chromatography with packed capillary column-mass spectrometry with atmospheric pressure chemical ionization 605(1992)87
- Matsumura, G., see Shimada, E. 627(1992)43
- Matsumura, R., see Asakura, M. 614(1993)135
- Matsunaga, A., see Yamamoto, A. 627(1992)17
- Matsunaga, A., see Yamamoto, A. 644(1993)183
- Matsuno, K., see Chiba, H. 613(1993)132
- Matsushima, Y., see Kanazawa, H. 630(1993)408
- Matsushima, Y., see Kanazawa, H. 631(1993)215
- Matsushima, Y., see Kanazawa, H. 632(1993)79
- Matsuura, A., Nagayama, T. and Kitagawa, T.
Automated high-performance liquid chromatographic method for determination of furosemide in dog plasma 617(1993)339
- Matsuura, K., Kuwano, M. and Takashina, H.
Determination of pilocarpine in aqueous humour by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 621(1993)173
- Matsuura, K. and Takashina, H.
Gas chromatographic-mass spectrometric determination of tiopronin in human blood using acrylic acid esters as a derivatization reagent for the thiol group 616(1993)229
- Matsuzaki, S., see Niitsu, M. 641(1993)115
- Matsuzaki, Y., see Yoshida, T. 613(1993)185
- Mattammal, M. B., Chung, H. D., Strong, R. and Hsu, F.-F.
Confirmation of a dopamine metabolite in parkinsonian brain tissue by gas chromatography-mass spectrometry 614(1993)205
- Matthiesen, U., see Schmidt, T. J. 634(1993)350
- Mattiasson, B., see Galaev, I. Y. 648(1993)367
- Mattson, B. M., see Gjerde, D. T. 640(1993)73
- Matuška, R., Preisler, L. and Sedlář, J.
Determination of the polymeric light stabilizer Chimassorb 944 in polyolefins by isocratic high-performance liquid chromatography 606(1992)136
- Matsysik, G., see Markowski, W. 646(1993)434
- Maugle, P. D., see De Antonis, K. M. 632(1993)91
- Maulik, N., see Cordis, G. A. 632(1993)97
- Maupetit, F., see Legrand, M. 640(1993)251
- Maurer, H. H.
Toxicological analysis (edited by R. K. Müller) (Book Review) 616(1993)353
- Mauri, P., see Pietta, P. 638(1993)357
- May, W. E., see Wise, S. A. 642(1993)329
- Maynar, J., see Imaz, C. 631(1993)201
- Mazereeuw, M., see Debets, A. J. J. 608(1992)151
- Mazzeo, J. R. and Krull, I. S.
Improvements in the method developed for performing isoelectric focusing in uncoated capillaries 606(1992)291
- McAdams, S. A. and Cordeiro, M. L.
Simple selected ion monitoring capillary gas chromatographic-mass spectrometric method for the determination of cotinine in serum, urine and oral samples 615(1993)148
- McArdle, J. V., see McCrossen, S. D. 623(1992)229
- McCalley, D. V.
Evaluation of reversed-phase columns for the analysis of very basic compounds by high-performance liquid chromatography. Application to the determination of the tobacco alkaloids 636(1993)213
- McCarney, C. C., see Niessen, W. M. A. 647(1993)107
- McCaughy, W. J., see Hewitt, S. A. 639(1993)185
- McConnell, J. P. and Anderson, D. J.
Determination of fibrinogen in plasma by high-performance immunoaffinity chromatography 615(1993)67
- McCord, B. R., see Hargadon, K. A. 602(1992)241
- McCoy, M. A., Liapis, A. I. and Unger, K. K.
Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1

- McCreath, G. E., Chase, H. A., Purvis, D. R. and Lowe, C. R.
Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201
- McCrossen, S. D., Giles, R. G., Oxley, P. W. and McArdle, J. V.
High-performance liquid chromatography procedure for the determination of purity of di-N-n-propylamine 623(1992)229
- McDonnell, T., Rosenfeld, J. and Rais-Firouz, A.
Solid-phase sample preparation of natural waters with reversed-phase disks 629(1993)41
- McEachern, P. R. and Foster, G. D.
Supercritical fluid extraction of synthetic organochlorine compounds in submerged aquatic plants 632(1993)119
- McErlane, K. M., see Aoyama, R. G. 626(1992)271
- McErlane, K. M., see Gentleman, M. S. 633(1993)105
- McGarvey, B. D.
High-performance liquid chromatographic methods for the determination of N-methylcarbamate pesticides in water, soil, plants and air (Review) 642(1993)89
- McGarvey, G. B., see Jürgensen, A. 602(1992)173
- McGhie, T. K.
Analysis of sugarcane flavonoids by capillary zone electrophoresis 634(1993)107
- McGowan, G. M., see Cortes, H. J. 607(1992)131
- McGuffin, V. L., see Yoo, J. S. 627(1992)87
- McIntyre, I. M., see Gerostamoulos, J. 617(1993)152
- McIntyre, I. M., King, C. V., Skafidis, S. and Drummer, O. H.
Dual ultraviolet wavelength high-performance liquid chromatographic method for the forensic or clinical analysis of seventeen antidepressants and some selected metabolites 621(1993)215
- McKinnon, G. E., see Schramm, T. M. 616(1993)39
- McLean, M., see Teffera, Y. 620(1993)89
- McLoughlin, D. A., see Fox, A. R. 631(1993)255
- McNally, J. J., see Shaw, C. J. 631(1993)173
- McNulty, H., McPartlin, J., Weir, D. and Scott, J.
Reversed-phase high-performance liquid chromatographic method for the quantitation of endogenous folate catabolites in rat urine 614(1993)59
- McPartlin, J., see McNulty, H. 614(1993)59
- Mealor, D., see Andrew, M. 640(1993)111
- Meaney, M., see Dunne, C. 629(1993)229
- Mearini, M., see Cui, Y. 625(1992)131
- Medin, A., see Muszyńska, G. 604(1992)19
- Medin, A. S., see Chaga, G. S. 604(1992)177
- Medina, M. B. and Nagdy, N.
Improved thin-layer chromatographic detection of diethylstilbestrol and zeranol in plasma and tissues isolated with alumina and ion-exchange membrane columns in tandem 614(1993)315
- Medina-Hernández, M. J., see Torres-Lapasió, J. R. 639(1993)87
- Meenhorst, P. L., see Burger, D. M. 622(1993)235
- Meguro, H., see Akasaka, K. 617(1993)205
- Meguro, H., see Akasaka, K. 622(1993)153
- Meguro, H., see Akasaka, K. 628(1993)31
- Mehta, M. S., see Dubin, P. L. 635(1993)51
- Mehta, S. C., see Hauss, D. J. 613(1993)336
- Meiborg, G., see Kema, I. P. 617(1993)181
- Meier, B., see Hasler, A. 605(1992)41
- Meier, B., see Mütsch-Eckner, M. 625(1992)183
- Meier, U. and Trepp, C.
Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361
- Meier-Augenstein, W., Hoffmann, G. F., Holmes, B., Jones, J. L., Nyhan, W. L. and Sweetman, L.
Use of a thick-film capillary column for the analysis of organic acids in body fluids 615(1993)127
- Meijer, A. H., De Waal, A. and Verpoorte, R.
Purification of the cytochrome P-450 enzyme geraniol 10-hydroxylase from cell cultures of *Catharanthus roseus* 635(1993)237
- Meiring, H. D., Den Engelsman, G. and De Jong, A. P. J. M.
Determination of polar pesticides by phase-transfer catalysed derivatization and negative-ion chemical ionization gas chromatography-mass spectrometry 644(1993)357
- Meisen, A., see Dawodu, O. F. 629(1993)297
- Meklati, B. Y., see Chrétien, J. R. 609(1992)261
- Melenevskaya, E. U., see Belenkii, B. G. 609(1992)355
- Melian, G. P., see Ling, C. F. 643(1993)351
- Melrose, J. and Ghosh, P.
Determination of the average molecular size of glycosaminoglycans by fast protein liquid chromatography 637(1993)91
- Melzi d'Eril, G. V., see Achilli, G. 632(1993)111
- Melzi d'Eril, G. V., see Colli, M. 643(1993)51
- Menet, J.-M. and Ito, Y.
Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. II. Path and acceleration of coils and comparison with type J coil planet centrifuge 644(1993)231
- Menet, J.-M., see Shinomiya, K. 644(1993)215
- Menet, J.-M., Shinomiya, K. and Ito, Y.
Studies on new cross-axis coil planet centrifuge for performing counter-current chromatography. III. Speculations on the hydrodynamic mechanism in stationary phase retention 644(1993)239
- Ménez, J.-F., see Lucas, D. 622(1993)79
- Meng, Q. C., Durand, J., Chen, Y.-F. and Oparil, S.
Simplified method for quantitation of angiotensin peptides in tissue 614(1993)19
- Menichelli, A., see Del Principe, D. 638(1993)277
- Mensink, C. K., see Wieling, J. 629(1993)181
- Mensink, E. J. B. M., see Kuypers, A. W. H. M. 621(1993)149
- Mentasti, E., see Hajos, P. 640(1993)15
- Mentasti, E., see Sarzanini, C. 620(1993)268
- Mentasti, E., see Sarzanini, C. 626(1992)151
- Mentasti, E., see Sarzanini, C. 640(1993)127
- Mentasti, E., see Sarzanini, C. 640(1993)179
- Mercer, R. S., see Thompson, T. S. 648(1993)213
- Merfort, I., see Schmidt, T. J. 634(1993)350
- Merion, M., see Swartz, M. E. 632(1993)209
- Merkler, D. J., see Consalvo, A. P. 607(1992)25
- Merkus, F. W. H. M., see Reeuwijk, H. J. E. M. 614(1993)95
- Merrill, E. W., see Sagar, A. D. 635(1993)132

- Messina, A., see Canepari, S. 616(1993)25
- Messina, A., see Castellani, L. 602(1992)21
- Metcalfe, A. C., see Moore, T. D. 619(1993)172
- Metori, A., Ogamo, A. and Nakagawa, Y.
Quantitation of monohydroxy fatty acids by high-performance liquid chromatography with fluorescence detection 622(1993)147
- Metting, H. J., see Coenegracht, P. M. J. 631(1993)145
- Metwally, M. E.-S. and Belal, F. F.
Application of high-performance liquid chromatography in the kinetic study of α -methyl dopa 623(1992)75
- Meuling, W. J. A., see Leenheers, L. H. 613(1993)89
- Meyer, M. T., Mills, M. S. and Thurman, E. M.
Automated solid-phase extraction of herbicides from water for gas chromatographic-mass spectrometric analysis 629(1993)55
- Meyer, P., see Boege, F. 625(1992)67
- Meyer, R., see Motohashi, N. 643(1993)1
- Meyer, T., Harms, D. and Gmehling, J.
Analysis of polyethylene glycols with respect to their oligomer distribution by high-performance liquid chromatography 645(1993)135
- Meyer, V. R.
High-performance liquid chromatography (by S. Lindsay) (Book Review) 609(1992)432
- Meyer, V. R.
Use of chromatographic peak-heights ratios for quantitative analysis: application to the separation of enantiomers 623(1992)371
- Meyer, V. R. and Palamareva, M. D.
New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391
- Meyerhoff, M. E., see Kibbey, C. E. 641(1993)49
- Mező, I., see Idei, M. 648(1993)251
- Michaelsen, S., see Bjerregaard, C. 608(1992)403
- Michaelsen, S., Møller, P. and Sørensen, H.
Factors influencing the separation and quantitation of intact glucosinolates and desulphoglucosinolates by micellar electrokinetic capillary chromatography 608(1992)363
- Michalkova, A., see Lesko, J. 603(1992)294
- Michalsky, M., see Romanello, M. 616(1993)167
- Micheli, L., see Cerretani, D. 614(1993)103
- Michigami, Y. and Yamamoto, Y.
Behaviour of the system peak in ion chromatography with indirect ultraviolet absorption detection and trimellitate as eluent 623(1992)148
- Mico, B. A., see Szuna, A. J. 616(1993)297
- Middaugh, L. D., see Patrick, K. S. 621(1993)89
- Midgley, J. M., see Zhou, P. 617(1993)11
- Mielniczuk, E., see Mielniczuk, Z. 623(1992)115
- Mielniczuk, Z., Alugupalli, S., Mielniczuk, E. and Larsson, L.
Gas chromatography-mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives 623(1992)115
- Mikšik, I., Gabriel, J. and Deyl, Z.
Capillary electrophoresis of *o*-phenylenediamine derivatives (quinoxalines) of dicarbonyl sugars 638(1993)343
- Mikšik, I., Hodný, Z. and Deyl, Z.
Chromatographic separation of glycosylated nucleotides 612(1993)57
- Milan, C., see Bignami, S. 644(1993)341
- Milan, C., see Davi, M. L. 644(1993)345
- Miljević, D., see Vučković, G. 609(1992)427
- Millart, H., see Lamiable, D. 620(1993)273
- Millart, H., see Trenque, T. 615(1993)343
- Miller, B. T., see Kurosky, A. 631(1993)281
- Miller, C. L., see Kirby, D. A. 648(1993)257
- Miller, D. J., see Burford, M. D. 609(1992)321
- Miller, D. J., see Burford, M. D. 648(1993)445
- Miller, D. J., see Hawthorne, S. B. 603(1992)185
- Miller, D. J., see Hawthorne, S. B. 642(1993)301
- Miller, D. J., see Paschke, T. 609(1992)333
- Miller, J., see Zhao, J. Y. 608(1992)239
- Miller, J. J., Changaris, D. G. and Levy, R. S.
Purification, subunit structure and inhibitor profile of cathepsin A 627(1992)153
- Miller, K. J. and Lytle, F. E.
Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245
- Miller, L. and Bergeron, R.
Analytical and preparative resolution of enantiomers of verapamil and norverapamil using a cellulose-based chiral stationary phase in the reversed-phase mode 648(1993)381
- Miller, R. B.
High-performance liquid chromatographic determination of diclofenac in human plasma using automated column switching 616(1993)283
- Miller, S. R., see Patrick, K. S. 621(1993)89
- Miller-Stein, C., see Boppana, V. K. 631(1993)251
- Miller-Stein, C., Hwang, B. Y.-H., Rhodes, G. R. and Boppana, V. K.
Column-switching high-performance liquid chromatographic method for the determination of SK&F 106203 in human plasma after fluorescence derivatization with 9-anthryldiazomethane 631(1993)233
- Milley, J. R. and Sweeley, J. C.
High-performance liquid chromatographic measurement of leucine and α -ketoisocaproate in whole blood: application to fetal protein metabolism 613(1993)23
- Millien, C., see Sinniger, V. 615(1993)215
- Millier, B., see Aue, W. A. 606(1992)73
- Mills, A. G. and Jefferies, T. M.
Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409
- Mills, G. A., see Stansbridge, E. M. 621(1993)7
- Mills, M. S., see Meyer, M. T. 629(1993)55
- Mills, M. S. and Thurman, E. M.
Foreword 629(1993)1
- Mills, M.S., Thurman, E.M. and Pedersen, M.J.
Application of mixed-mode, solid-phase extraction in environmental and clinical chemistry. Combining hydrogen-bonding, cation-exchange and Van der Waals interactions 629(1993)11
- Milojković, D. M., see Janjić, T. J. 609(1992)419
- Miners, J. O., see Andersson, T. 619(1993)291

- Miners, J. O., see Tassaneyakul, W. 616(1993)73
- Mingalyov, P. G., Fadeev, A. Y., Staroverov, S. M., Lisichkin, G. V. and Lunina, E. V.
Nitroxide radicals in studies of the fine bonded layer structure of modified silicas 646(1993)267
- Mingorance, M. D., see Tienstra, P. A. 608(1992)357
- Mínguez-Mosquera, M. I., Gallardo-Guerrero, L. and Gandul-Rojas, B.
Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295
- Minguillón, C., see Oliveros, L. 606(1992)9
- Minkler, P. E. and Hoppel, C. L.
Quantification of carnitine and specific acylcarnitines by high-performance liquid chromatography: application to normal human urine and urine from patients with methylmalonic aciduria, isovaleric acidemia or medium-chain acyl-CoA dehydrogenase deficiency 613(1993)203
- Minton, T. A., see Morrow, J. D. 612(1993)179
- Mishalanie, E. A., see Kimball, B. A. 634(1993)289
- Misiti, D., see Gasparrini, F. 633(1993)81
- Mislovičová, D., see Markovič, O. 603(1992)243
- Mislovičová, D., Petro, M. and Berek, D.
Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411
- Misra, S., see Sharma, S. D. 606(1992)121
- Mitchell, L., see Hoffmann, G. F. 617(1993)1
- Mitra, S. and Yun, C.
Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415
- Mitrovic, V., see Husseini, H. 620(1993)164
- Mitsuhashi, T.
Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339
- Miwa, T., see Mano, N. 603(1992)105
- Miwa, T., see Mano, N. 623(1992)221
- Miyai, M., see Yamazaki, T. 615(1993)180
- Miyake, K., see Nishikata, M. 612(1993)239
- Miyakoshi, M., see Okada, T. 604(1992)219
- Miyamoto, G., see Kitani, M. 620(1993)97
- Miyanabe, M., see Okada, T. 604(1992)219
- Miyano, S., see Oi, S. 645(1993)17
- Miyashita, Y., see Terabe, S. 636(1993)47
- Miyauchi, N., see Yashima, E. 603(1992)111
- Miyazaki, H., see Yoshida, T. 613(1993)185
- Miyazaki, K., see Nishikata, M. 612(1993)239
- Miyazaki, M., see Yamamoto, A. 627(1992)17
- Miyazaki, M., see Yamamoto, A. 644(1993)183
- Miyazaki, T., see Yoshioka, M. 603(1992)223
- Miyazawa, T., see Saeki, R. 606(1992)187
- Mizobe, M., see Suzuki, T. 619(1993)267
- Mizobe, M., see Tagawa, K. 617(1993)95
- Mizuguchi, T., see Shimada, K. 606(1992)133
- Mizukami, E., see Yamamoto, A. 627(1992)17
- Mizukami, E., see Yamamoto, A. 644(1993)183
- Mizuno, K., see Takagi, K. 628(1993)122
- Mňuk, P., Smolková-Keulemansová, E. and Felzl, L.
Gas chromatographic study of the inclusion properties of dibenzo-24-crown-8 ether 623(1992)297
- Moats, W. A., see Shaikh, B. 643(1993)369
- Mock, K., Hail, M., Mylchreest, I., Zhou, J., Johnson, K. and Jardine, I.
Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169
- Modin, R., see Castledine, J. B. 626(1992)127
- Modlin, R. F., see Alred, P. A. 628(1993)205
- Moffat, J. B., see Jürgensen, A. 602(1992)173
- Mohammad, A., Fatima, N., Ahmad, J. and Majid Khan, M. A.
Planar layer chromatography in the analysis of inorganic pollutants (Review) 642(1993)445
- Mohammad, A. and Khan, M. A. M.
New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455
- Mohammad, J., see Hjertén, S. 646(1993)121
- Mohammad, J., see Valtcheva, L. 638(1993)263
- Mohri, K., see Kato, Y. 616(1993)67
- Mokashi, A. A., see Wagh, J. S. 646(1993)428
- Mol, H. G. J., Staniewski, J., Janssen, H.-G., Cramers, C. A., Ghijsen, R. T. and Brinkman, U. A. T.
Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201
- Moliner, R., see Diaz, M. 607(1992)353
- Møller, P., see Michaelsen, S. 608(1992)363
- Møller, S. E.
Quantification of physiological amino acids by gradient ion-exchange high-performance liquid chromatography 613(1993)223
- Mollerup, J., see Staby, A. 648(1993)221
- Molnar, I. and Koswig, S.
Investigation of γ -irradiation of α -tocopherol and its related derivatives by high-performance liquid chromatography using a rapid scanning spectrophotometer 605(1992)49
- Molnár-Perl, I., Pintér-Szakács, M. and Khalifa, M.
High-performance liquid chromatography of tryptophan and other amino acids in hydrochloric acid hydrolysates 632(1993)57
- Molteni, S. and Thormann, W.
Experimental aspects of capillary isoelectric focusing with electroosmotic zone displacement 638(1993)187
- Moltó, J. C., see Font, G. 642(1993)135
- Moltrasio, D., see Da Col, R. 647(1993)289
- Mondini, R., see De Paoli, M. 626(1992)145
- Mong, S., see Hanson, G. D. 622(1993)61
- Monge, C. A., see Reid, III, G. L. 633(1993)135
- Monin, N., see Davila, A. M. 648(1993)139
- Monkarsh, S. P., Russoman, E. A. and Roy, S. K.
Separation of interleukins by a preparative chromatofocusing-like method 631(1993)277
- Monkman, S. C., see Ellis, J. S. 621(1993)95
- Monot, C., see Muller, N. 616(1993)261
- Montanarella, L., see Lecoq, A.-F. 638(1993)363
- Montijano, H., see Castellar, M. R. 648(1993)187
- Montoya, J. L., see Liu, H. 616(1993)105
- Moon, D. C., see Lee, K.-J. 608(1992)243

- Moore, D. J., Perrino, P. J., Klerer, C. P. and Robertson, P.
High-performance liquid chromatographic assay for two rifamycin-derived hypocholesterolemic agents in liver and biological fluids 612(1993)310
- Moore, J. M., Cooper, D. A., Kram, T. C. and Klein, R. F. X.
Sensitive detection of nicotine after its novel perfluoroacylation and analysis using capillary gas chromatography-electron-capture detection 645(1993)273
- Moore, T. D., Metcalf, A. C., Swagzdis, J. E. and Doyle, E.
High-performance liquid chromatographic determination of concentrations of the reversible H⁺/K⁺ ATPase inhibitor SK&F 97574 in plasma 619(1993)172
- Mooser, A. E., see Guggisberg, D. 624(1992)425
- Morano Okuno, C., see González-Esquivel, D. F. 613(1993)174
- Morawski, J., Alden, P. and Sims, A.
Analysis of cationic nutrients from foods by ion chromatography 640(1993)359
- Morawski, J., see Krol, J. 626(1992)165
- Moreau, J., see Naline, E. 604(1992)203
- Moretti, G., Betto, P., Cammarata, P., Fracassi, F., Giambenedetti, M. and Borghese, A.
Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291
- Moretti, M., see Bignami, S. 644(1993)341
- Moretti, P., see Castello, G. 635(1993)103
- Morgan, D. J., see Huang, J. L. 620(1993)278
- Morgan, E. D., see Shim, J.-H. 639(1993)281
- Morgan, S. L., see Cornwell, P. E. 617(1993)136
- Morgenstern, J. P., see Keating, K. M. 631(1993)269
- Mori, G., see Careri, M. 634(1993)143
- Mori, S.
Design of a differential pressure detector for use in the size-exclusion chromatography of polymers 637(1993)129
- Morin, P., Villard, F. and Dreux, M.
Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. I. Separation of flavonoid-7-O-glycosides differing in their flavonoid aglycone 628(1993)153
- Morin, P., Villard, F., Dreux, M. and André, P.
Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. II. Separation of flavonoid-3-O-glycosides differing in their sugar moiety 628(1993)161
- Morita, I. and Sawada, J.
Capillary electrophoresis with on-line sample pretreatment for the analysis of biological samples with direct injection 641(1993)375
- Morley, J. A., see Elrod, Jr., L. 625(1992)362
- Morley, J. S., see Lewis, J. R. E. 615(1993)37
- Moro, L., see Romanello, M. 616(1993)167
- Morris, J. and Fritz, J. S.
Ion chromatography of metal cations on carboxylic acid resins 602(1992)111
- Morris, M. J. and Hsieh, J. Y. -K.
Determination of tris(hydroxymethyl)aminomethane (tromethamine) in human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)87
- Morrow, J. D., see Awad, J. A. 617(1993)124
- Morrow, J. D. and Minton, T. A.
Improved assay for the quantification of 11-dehydrothromboxane B₂ by gas chromatography-mass spectrometry 612(1993)179
- Mosandl, A.
Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267
- Mosca, A., see Zecca, L. 615(1993)169
- Moschera, J., see Guzman, N. A. 608(1992)197
- Mosher, R. A., Gebauer, P. and Thormann, W.
Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155
- Mosher, R. A., see Křivánková, L. 638(1993)119
- Motohashi, M., see Okuda, T. 612(1993)263
- Motohashi, M., see Yamashita, K. 616(1993)144
- Motohashi, N., Kamata, K. and Meyer, R.
Chromatographic techniques used to determine benz[c]acridines in environmental samples (Review) 643(1993)1
- Mou, S., Wang, H. and Sun, Q.
Simultaneous determination of the three main inorganic forms of nitrogen by ion chromatography 640(1993)161
- Mougos, S., see Aguilar, M. I. 646(1993)53
- Mouiel, J., see Candito, M. 614(1993)164
- Moult, P. E. G., see Niessen, W. M. A. 647(1993)107
- Mouly, P., Gaydou, E. M. and Estienne, J.
Column liquid chromatographic determination of flavanone glycosides in *Citrus* Application to grapefruit and sour orange juice adulterations 634(1993)129
- Mounts, T. L., see Abidi, S. L. 639(1993)175
- Mounts, T. L., see Konishi, H. 629(1993)237
- Moussa, A., see Li, W. 608(1992)171
- Moussa, A., see Li, W. 633(1993)315
- Movahedi, S., see Mulholland, F. 636(1993)63
- Moyano, E., see Galceran, M. T. 607(1992)287
- Mráz, J., Jheeta, P., Gescher, A. and Threadgill, M. D.
Unusual deuterium isotope effect on the retention of formamides in gas-liquid chromatography 641(1993)194
- Mross, K., see Hüttmann, A. 620(1993)233
- Mu, H., see Wesén, C. 625(1992)257
- Mu, N., see Varady, L. 631(1993)107
- Much, H., see Pasch, H. 623(1992)315
- Muijselaar, W. G. H. M., De Bruijn, C. H. M. M. and Everaerts, F. M.
Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115
- Muindi, J. R. F., Young, C. W. and Shih, C.
Specific and sensitive high-performance liquid chromatographic method with fluorescence detection for measurement of lometrexol and its polyglutamates in biologic samples 621(1993)55

- Muñoz-Blanco, T., see Pascual, M. L. 617(1993)51
- Mulder, J. W., see Burger, D. M. 622(1993)235
- Mulholland, F., Movahedi, S., Hague, G. R. and Kasumi, T.
Monitoring tripeptidase activity using capillary electrophoresis. Comparison with the ninhydrin assay 636(1993)63
- Mulholland, M., Haddad, P. R. and Hibbert, D. B.
Expert system for ion chromatographic methods using dynamically coated ion-interaction separation 602(1992)9
- Mülleder, E., see Buchberger, W. 602(1992)51
- Müllen, K., see Gügel, A. 628(1993)23
- Muller, D., see Sinniger, V. 615(1993)215
- Müller, H., see Huhn, G. 640(1993)57
- Müller, M., see Boege, F. 625(1992)67
- Muller, N., Lapicque, F., Drelon, E., Gillet, P., Monot, C., Poletto, B. and Netter, P.
Direct high-performance liquid chromatographic resolution of the enantiomers of tiaprofenic acid using immobilized human serum albumin 616(1993)261
- Müller, P., see Czichocki, G. 604(1992)213
- Mulligan, T. E., see Szuna, A. J. 616(1993)297
- Münchow, V., see Steudel, R. 623(1992)174
- Múnera-Jaramillo, M. I. and Botero-Garcés, S.
Determination of tenoxicam in plasma by high-performance liquid chromatography 616(1993)349
- Munro, P. D., Winzor, D. J. and Cann, J. R.
Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3
- Murakami, A., Tamura, Y., Ide, H. and Makino, K.
Optimization of the separation of oligodeoxyribonucleoside phosphoramidates and their characterization by circular dichroism spectroscopy 648(1993)157
- Murakami, T., see Tsukioka, T. 642(1993)395
- Muralidhara, S., see Chen, X. M. 612(1993)199
- Muramatsu, H., see Fabri, L. 646(1993)213
- Muramatsu, S., see Takasaki, W. 613(1993)67
- Muramatsu, T., see Fabri, L. 646(1993)213
- Murashima, T., see Haginaka, J. 620(1993)199
- Murashima, T., see Haginaka, J. 631(1993)183
- Murayama, K., see Gamache, P. 614(1993)213
- Murone, M., see Grazioli, V. 615(1993)59
- Murphey, L. J., Olsen, G. D. and Konkol, R. J.
Quantitation of benzoynoregonine and other cocaine metabolites in meconium by high-performance liquid chromatography 613(1993)330
- Murphy, D. M., Garbarino, J. R., Taylor, H. E., Hart, B. T. and Beckett, R.
Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459
- Murray, P. G., see Pirkle, W. H. 641(1993)11
- Murray, P. G., see Pirkle, W. H. 641(1993)21
- Murray, S., Lynch, A. M., Knize, M. G. and Gooderham, N. J.
Quantification of the carcinogens 2-amino-3,8-dimethyl- and 2-amino-3,4,8-trimethylimidazo[4,5-f]quinoxaline and 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine in food using a combined assay based on gas chromatography-negative ion mass spectrometry 616(1993)211
- Murty, R. B., see Gogineni, P. V. 620(1993)83
- Murugaverl, B., Voorhees, K. J. and DeLuca, S. J.
Utilization of a benchtop mass spectrometer with capillary supercritical fluid chromatography 633(1993)195
- Muschik, G. M., see Chan, K. C. 622(1993)269
- Muskiet, F. A. J., see Kema, I. P. 617(1993)181
- Muskiet, F. A. J., see Winter, C. H. 616(1993)9
- Mussenbrock, E., see Kleiböhmer, W. 638(1993)349
- Musshoff, F., Daldrup, T. and Bonte, W.
Gas chromatographic-mass spectrometric screening procedure for the identification of formaldehyde-derived tetrahydro- β -carboline in human urine 614(1993)1
- Musshoff, F., Daldrup, T. and Bonte, W.
Gas chromatographic-mass spectrometric screening procedure for the identification of formaldehyde-derived tetrahydroisoquinolines in human urine 619(1993)235
- Muszyńska, G., Dobrowolska, G., Medin, A., Ekman, P. and Porath, J. O.
Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19
- Mütsch-Eckner, M., Sticher, O. and Meier, B.
Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulphoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(trans-1-propenyl)-L-cysteine 625(1992)183
- Mutton, I. M., see Bevan, C. D. 636(1993)113
- Mutuberría Cortabitarte, M. S., see Ormad Melero, M. P. 607(1992)311
- Muzquiz, M., Rey, C., Cuadrado, C. and Fenwick, G. R.
Effect of germination on the oligosaccharide content of lupin species 607(1992)349
- Mylchreest, I., see Mock, K. 646(1993)169
- Myung, S., see Kim, K.-R. 641(1993)319

N

- Naaranlahti, T., see Tóth, Z. A. 630(1993)423
- Nabeshima, N., see Kataoka, H. 626(1992)239
- Nachev, C., see Apostolova, M. 620(1993)191

- Nachilobe, P., Boison, J. O., Cassidy, R. M. and Fesser, A. C. E.
Determination of trimethoprim in bovine serum by high-performance liquid chromatography with confirmation by thermospray liquid chromatography-mass spectrometry 616(1993)243
- Nadal, T., see Ventura, R. 647(1993)203
- Nadano, D., see Iida, R. 622(1993)9
- Nadotti, S., see Gerbino, T. C. 623(1992)123
- Naemura, T., see Inoue, H. 645(1993)259
- Naga, S., see Hariharan, M. 613(1993)195
- Naga, S., see Hariharan, M. 621(1993)15
- Nagai, T.
Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33
- Nagakura, A., see Asakura, M. 614(1993)135
- Nagao, K., see Kataoka, H. 626(1992)239
- Nagashima, H., see Jinno, K. 648(1993)71
- Nagata, S., see Matsumoto, K. 605(1992)87
- Nagata, S., see Sakakura, H. 621(1993)123
- Nagata, T., see Ito, S. 617(1993)119
- Nagata, Y., see Kanazawa, H. 630(1993)408
- Nagata, Y., see Kanazawa, H. 631(1993)215
- Nagata, Y., see Kanazawa, H. 632(1993)79
- Nagatkina, M., see Zukowski, J. 629(1993)169
- Nagatsu, T., see Kajita, M. 613(1993)1
- Nagatsuka, A., see Onodera, S. 642(1993)185
- Nagayama, T., see Matsuura, A. 617(1993)339
- Nagdy, N., see Medina, M. B. 614(1993)315
- Nagel, G. T., see Kema, I. P. 617(1993)181
- Nagel, J., see Hampe, T. R. E. 634(1993)205
- Naggi, A., see Da Col, R. 647(1993)289
- Nagornaya, L. V., see Chlenov, M. A. 631(1993)261
- Nagumo, F., see Kawasaki, S. 620(1993)61
- Nair, J. B. and Izzo, C. G.
Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445
- Nair, L., see Saari-Nordhaus, R. 602(1992)127
- Nair, L. M., Saari-Nordhaus, R. and Anderson, Jr., J. M.
Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41
- Nair, N. K., see Ramanathan, S. 615(1993)303
- Naito, K., Watanabe, Y. and Takei, S.
Mixed retention mechanism in gas-liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225
- Nakabayashi, Y., see Okada, T. 604(1992)219
- Nakagawa, Y., see Metori, A. 622(1993)147
- Nakai, A., see Nishikata, M. 612(1993)239
- Nakai, H., see Yamazaki, T. 615(1993)180
- Nakai, K., see Kataoka, H. 615(1993)136
- Nakajima, M., Wakabayashi, H., Yamato, S. and Shimada, K.
New labelling agent, 2-[2-(isocyanate)ethyl]-3-methyl-1,4-naphthoquinone, for high-performance liquid chromatography of hydroxysteroids with electrochemical detection 641(1993)176
- Nakamura, K., see Hirokawa, T. 638(1993)215
- Nakanishi, A., see Kondo, J. 645(1993)75
- Nakano, M., see Yoshioka, M. 603(1992)223
- Nakashima, K., see Akiyama, S. 626(1992)266
- Nakashima, K., Taguchi, Y., Kuroda, N., Akiyama, S. and Duan, G.
2-(4-Hydrazinocarbonylphenyl)-4,5-diphenylimidazole as a versatile fluorescent derivatization reagent for the high-performance liquid chromatographic analysis of free fatty acids 619(1993)1
- Nakashima, S., see Kuwata, K. 643(1993)25
- Nakato, Y., see Kuwata, K. 643(1993)25
- Nakatsuji, Y., see Tanaka, M. 648(1993)469
- Nakazato, K., see Hjertén, S. 646(1993)121
- Nakazato, T. and Yoza, N.
Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221
- Nakazawa, H., see Furuta, R. 625(1992)231
- Naline, E., Palette-Pays, C., Moreau, J., Advenier, C. and Pays, M.
Reversed-phase liquid chromatography using monoalkylammonium compounds in the mobile phase. Effects of monoalkylammonium chain length on the efficiency, selectivity and separation of xanthine and uric acid derivatives 604(1992)203
- Nam, K. S., see Liu, M. H. 639(1993)151
- Nambara, T., see Suzuki, E. 617(1993)221
- Nann, A. and Simon, W.
On-column detection in capillary zone electrophoresis with ion-selective microelectrodes in conical capillary apertures 633(1993)207
- Naohara, J. and Manabe, M.
Separation of oligogalacturonic acids by high-performance gel filtration chromatography on silica gel with diol radical 603(1992)139
- Napolitano, G. E., see Shantha, N. C. 624(1992)37
- Nardi, A., Eliseev, A., Boček, P. and Fanali, S.
Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247
- Nasal, A., see Gami-Yilinkou, R. 633(1993)57
- Nash, B. K. and Kelly, R. G.
Application of ion chromatography to corrosion studies 602(1992)135
- Nashabeh, W. and El Rassi, Z.
Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157
- Nasledov, D. G., see Belenkii, B. G. 645(1993)1
- Natangelo, M., see Benfenati, E. 605(1992)129
- Nathakarnkitkool, S., see Oefner, P. J. 625(1992)331
- Naumann, S., see Serrano, J. 615(1993)203
- Navajas, R., see Imaz, C. 631(1993)201
- Navaratnam, V., see Ramanathan, S. 615(1993)303
- Navarra, F., see Bignami, S. 644(1993)341
- Naylor, S., see Tomlinson, A. J. 621(1993)239
- Nebinger, P. and Koel, M.
Determination of acyclovir by ultrafiltration and high-performance liquid chromatography 619(1993)342

- Neff, W. E., see Konishi, H. 629(1993)237
- Neidlein, R., Heitzmann, T., Strein, K. and Volland, C.
Conventional and enantioselective determination of a new
blood glucose-lowering agent in biological fluids using
liquid-liquid extraction and high-performance liquid
chromatography 616(1993)129
- Neilson, A. H., see Hynning, P.-Å. 643(1993)439
- Nelson, R. W., see Hutchens, T. W. 604(1992)125
- Nelson, T. J.
Rapid isoelectric focusing of proteins in hydrolytically
stable capillaries 623(1992)357
- Nerva, M., see Sarzanini, C. 620(1993)328
- Nesi, M., see Bello, M. S. 625(1992)323
- Nesi, M., see Chiari, M. 645(1993)197
- Nesi, M., see Righetti, P. G. 638(1993)165
- Nesterenko, P. N.
Application of amino acid-bonded silicas as ion
exchangers for the separation of anions by single-column
ion chromatography 605(1992)199
- Nesterenko, P. N.
New developments in ion exchange —materials,
fundamentals and applications (edited by M. Abe, T.
Kataoka and T. Suzuki) (Book Review) 626(1992)315
- Netteland, B., see Demoz, A. 635(1993)251
- Netter, P., see Muller, N. 616(1993)261
- Neubert, D., see Kastner, M. 625(1992)55
- Neumann, W. C., see Wilson, T. D. 641(1993)241
- New, A. L., see Liau, L. S. 612(1993)63
- Newman, K. L., see Bell, R. G. 632(1993)87
- Ng, C. L., Lee, H. K. and Li, S. F. Y.
Determination of sulphonamides in pharmaceuticals by
capillary electrophoresis 632(1993)165
- Ng, K. J., see Lin, Y. Y. 629(1993)389
- Ng, K. W., see Bobbitt, D. R. 624(1992)153
- Ng, L.-K. and Hupé, M.
Simple gas chromatographic method for the assay of salts
of carboxylic acids as their trimethylsilyl derivatives
637(1993)104
- Ng, S. C., see Ching, C. B. 634(1993)215
- Nguyen, T. S., Hu, S.-G. and Do, D. D.
Batch dynamic adsorption of dipeptides onto reversed-
phase silica gel 603(1992)27
- Nguyen, T. T., see O'Brien, T. 613(1993)239
- Nguyen, V. D. and Rossbach, M.
Ion chromatographic investigation of brown algae (*Fucus
vesiculosus*) of the German Environmental Specimen
Bank 643(1993)427
- Nguyen-Ba, N., see Di Marco, M. P. 645(1993)107
- Ni, D.-R., see Cheng, F.-C. 615(1993)225
- Nice, E., Layton, J., Fabri, L., Hellman, U., Engstrom, A.,
Persson, B. and Burgess, A. W.
Mapping of the antibody- and receptor-binding domains
of granulocyte colony-stimulating factor using an optical
biosensor. Comparison with enzyme-linked
immunosorbent assay competition studies 646(1993)159
- Nice, E. C., see Fabri, L. 646(1993)213
- Nichols, P. D., Leeming, R., Rayner, M. S., Latham, V.,
Ashbolt, N. J. and Turner, C.
Comparison of the abundance of the fecal sterol
coprostanol and fecal bacterial groups in inner-shelf
waters and sediments near Sydney, Australia
643(1993)189
- Nicholson, J. K., see Wilson, I. D. 617(1993)324
- Nickless, G., see O'Doherty, S. J. 630(1993)265
- Nickless, G., see Sturrock, G. A. 648(1993)423
- Nicolas, J. P., see Lambert, D. 608(1992)311
- Nicolas, P., see Prevot, M. 605(1992)33
- Nicot, T., see Simon, P. 620(1993)47
- Nieder, M., see Bitsch, F. 615(1993)273
- Nielen, M. W. F.
Indirect time-resolved luminescence detection in capillary
zone electrophoresis 608(1992)85
- Nielen, M. W. F.
Separation of phenylenediamine isomers by capillary zone
electrophoresis 625(1992)387
- Nielen, M. W. F.
(Enantio-)separation of phenoxy acid herbicides using
capillary zone electrophoresis 637(1993)81
- Nielsen, J. H., see Linde, S. 614(1993)185
- Nierenberg, D. W., see Edmonds, B. K. 614(1993)169
- Niessen, W. M. A.
Mass spectral and GC data of drugs, poisons, pesticides,
pollutants and their metabolites (by K. Pflieger, H. H.
Maurer and A. Weber) (Book Review) 617(1993)344
- Niessen, W. M. A., see Hugener, M. 647(1993)375
- Niessen, W. M. A., McCarney, C. C., Moul, P. E. G., Tjaden,
U. R. and Van der Greef, J.
Liquid chromatography-mass spectrometry for the
identification of minor components in benzothiazole
derivatives 647(1993)107
- Niessen, W. M. A., see Reinhoud, N. J. 627(1992)263
- Niessen, W. M. A., see Tinke, A. P. 647(1993)63
- Niessen, W. M. A., see Tinke, A. P. 647(1993)279
- Niessen, W. M. A., Tjaden, U. R. and Van der Greef, J.
Capillary electrophoresis—mass spectrometry (Review)
636(1993)3
- Niessen, W. M. A., see Van der Hoeven, R. A. M.
627(1992)63
- Niessen, W. M. A., Van der Hoeven, R. A. M., Van der
Greef, J., Schols, H. A., Voragen, A. G. J. and Bruggink,
C.
Recent progress in high-performance anion-exchange
chromatography-thermospray mass spectrometry of
oligosaccharides 647(1993)319
- Niethammer, D., see Bruchelt, G. 618(1993)57
- Niethammer, D., see Gebhardt, S. 638(1993)235
- Nieto, S., see Speisky, H. 612(1993)315
- Nihei, K., see Hayakawa, K. 620(1993)25
- Niitsu, M., Samejima, K., Matsuzaki, S. and Hamana, K.
Systematic analysis of naturally occurring linear and
branched polyamines by gas chromatography and gas
chromatography-mass spectrometry 641(1993)115
- Niki, H., see Lai, J. Y. K. 643(1993)77
- Nikolova-Damyanova, B., Herslof, B. G. and Christie, W. W.
Silver ion high-performance liquid chromatography of
derivatives of isomeric fatty acids 609(1992)133

- Nilsson, C.-A., see Sunesson, A.-L. 623(1992)93
- Nimura, N., see Iwaki, K. 625(1992)353
- Ninčáková, A., see Šipoš, J. 638(1993)108
- Nishi, H., Fujimura, N., Yamaguchi, H. and Fukuyama, T.
Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)89
- Nishihira, Y., see Itagaki, T. 620(1993)149
- Nishikata, M., Nakai, A., Fushida, H., Miyake, K., Arita, T., Iseki, K., Miyazaki, K. and Nomura, A.
Enantioselective pharmacokinetics of homochlorcyclizine. III. Simultaneous determination of (+)- and (-)-homochlorcyclizine in human urine by high-performance liquid chromatography 612(1993)239
- Nishimura, K., see Takagi, T. 629(1993)385
- Nishimura, R., see Kanazawa, H. 631(1993)215
- Nishiyama, F., see Hirokawa, T. 633(1993)261
- Nishiyama, F., see Hirokawa, T. 638(1993)215
- Nisticó, G., see Corasaniti, M. T. 643(1993)419
- Niwa, T., see Kajita, M. 613(1993)1
- Niwa, T., see Kajita, M. 622(1993)263
- Niwa, T., Tohyama, K. and Kato, Y.
Analysis of polyols in uremic serum by liquid chromatography combined with atmospheric pressure chemical ionization mass spectrometry 613(1993)9
- Nixon, P. F., see Booth, C. K. 609(1992)83
- Noble, A.
Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3
- Nocca, G., see Castagnola, M. 638(1993)327
- Noctor, T. A. G., see Kaliszan, R. 609(1992)69
- Noda, K., see Suzuki, A. 617(1993)279
- Noda, K., see Suzuki, T. 619(1993)267
- Noda, K., see Tagawa, K. 617(1993)95
- Nogata, Y., see Ohta, H. 607(1992)154
- Nogata, Y., see Ohta, H. 628(1993)199
- Nohta, H., see Kai, M. 621(1993)181
- Nolan, J. A., see Guttman, A. 632(1993)171
- Nomura, A., see Nishikata, M. 612(1993)239
- Nomura, J., see Koyama, J. 625(1992)217
- Noorduyn, A. J., see Duchateau, A. L. L. 637(1993)29
- Nordin, J., see Hermansson, J. 631(1993)79
- Norén, K. and Sjövall, J.
Liquid-gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243
- Norén, K., see Westrand, C. 630(1993)179
- Normann, J., see Deppert, W. R. 625(1992)13
- North, D. H., see Janeček, M. 619(1993)63
- Nortier, Y. L. M., see Wafelman, A. R. 622(1993)71
- Nott, R., see Sundaram, K. M. S. 627(1992)300
- Novelli, G., see Del Principe, D. 638(1993)277
- Novotny, M. V., see Soini, H. 608(1992)265
- Nowakowski, R., see Sybińska, D. 625(1992)349
- Nowotnik, D. P., Feld, T. and Nunn, A. D.
Examination of some reversed-phase high-performance liquid chromatography systems for the determination of lipophilicity 630(1993)105
- Nozaki, M., see Tojo, H. 605(1992)205
- Nuñez-Vergara, L. J., see Speisky, H. 612(1993)315
- Nunn, A. D., see Nowotnik, D. P. 630(1993)105
- Nürnberg, P., see Brdička, R. 618(1993)167
- Nyce, J. W., see Leonard, S. A. 645(1993)189
- Nyhan, W. L., see Hoffmann, G. F. 617(1993)1
- Nyhan, W. L., see Meier-Augenstein, W. 615(1993)127
- Nyysönen, K., Seppänen, K. and Salonen, J. T.
High-performance liquid chromatographic assay of platelet-produced thromboxane B₂ 612(1993)27
- O'Brien, T., Buithieu, J., Nguyen, T. T., Klein, L., Bren, N., Wentworth, M., Hallaway, B. J. and Kottke, B. A.
Separation of high-density lipoproteins into apolipoprotein E-poor and apolipoprotein E-rich subfractions by fast protein liquid chromatography using a heparin affinity column 613(1993)239
- O'Connor, J., see Osman, S. F. 606(1992)285
- Oda, T., see Yoshimura, Y. 613(1993)43
- Oda, Y., see Mano, N. 603(1992)105
- Oda, Y., see Mano, N. 623(1992)221
- Oddeze, C., see Rop, P. P. 612(1993)302
- Odin, F., see Polverelli, M. 613(1993)257
- O'Doherty, S. J., Simmonds, P. G., Nickless, G. and Betz, W. R.
Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265
- Odomi, M., see Kitani, M. 620(1993)97
- O'Dwyer, P. J., see Brennan, J. M. 620(1993)121
- Oefner, P. J., Bonn, G. K., Huber, C. G. and Nathakarnkitkool, S.
Comparative study of capillary zone electrophoresis and high-performance liquid chromatography in the analysis of oligonucleotides and DNA 625(1992)331
- Oesch, F., see Schaumann, C. 646(1993)227
- Ogamo, A., see Metori, A. 622(1993)147
- O'Gara, F., see Shanahan, P. 606(1992)171
- Ogata, K., see Sugiyama, K. 619(1993)306
- Ogawa, H. K., Takeuchi, Y., Uchibori, H., Matsumoto, I. and Seno, N.
Determination of N-acetylneuraminic acid and N-glycolylneuraminic acid in glycoproteins by high-performance liquid chromatography without derivatization 612(1993)145
- Ogawa, S., see Fukui, S. 630(1993)187
- Ogawa, S., Kita, H., Hanasaki, Y., Fukui, S. and Kami, H.
Determination of the potent mutagen 3-chloro-4-dichloromethyl-5-hydroxy-2(5*H*)-frانونe (MX) in water by gas chromatography with electron-capture detection 643(1993)221

- Ogoraka, J., Schwinger, G., Bruat, G. and Seidel, V.
On-line coupled reversed-phase high-performance liquid chromatography-gas chromatography-mass spectrometry. A powerful tool for the identification of unknown impurities in pharmaceutical products 626(1992)87
- Ogunbona, F. A., see Babalola, C. P. 616(1993)151
- Ogunbona, F. A., see Bolaji, O. O. 622(1993)93
- Ogungbamila, F. O., see Bolaji, O. O. 622(1993)93
- Ogunlana, E. O., see Bolaji, O. O. 622(1993)93
- Oh, C.-H., see Kim, K.-R. 605(1992)241
- O'Hara, K., see Parker, C. E. 616(1993)45
- Ohashi, M., see Sano, A. 621(1993)157
- Ohhira, S. and Matsui, H.
Gas chromatographic determination of inorganic tin in rat urine after a single oral administration of stannous chloride and mono-, di-, and triphenyltin chloride 622(1993)173
- Ohkubo, T., Shimoyama, R. and Sugawara, K.
Determination of chlorpromazine in human breast milk and serum by high-performance liquid chromatography 614(1993)328
- Ohkura, Y., see Kai, M. 621(1993)181
- Ohkura, Y., see Kojima, E. 612(1993)187
- Ohkura, Y., see Yonekura, S. 641(1993)235
- Ohmori, A., see Hirokawa, T. 634(1993)101
- Ohnishi, K., see Yoshimura, Y. 613(1993)43
- Ohno, T., see Tani, Y. 617(1993)249
- Ohruai, H., see Akasaka, K. 617(1993)205
- Ohruai, H., see Akasaka, K. 622(1993)153
- Ohruai, H., see Akasaka, K. 628(1993)31
- Ohruai, S., see Kataoka, H. 633(1993)311
- Ohsawa, K., see Hashimoto, K. 623(1992)386
- Ohsawa, Y., see Tanikawa, M. 617(1993)163
- Ohshita, T. and Katunuma, N.
Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281
- Ohta, H., Fong, C. H., Berhow, M. and Hasegawa, S.
Thin-layer and high-performance liquid chromatographic analyses of limonoids and limonoid glucosides in *Citrus* seeds 639(1993)295
- Ohta, H., see Jinno, K. 648(1993)71
- Ohta, H., Nogata, Y., Yoza, K.-I. and Maeda, M.
Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154
- Ohta, H., Takeda, Y., Yoza, K.-I. and Nogata, Y.
High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199
- Ohta, T., see Hirokawa, T. 638(1993)215
- Ohta, T., Ishimura, K. and Takitani, S.
Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35
- Ohtaki, N., see Inoue, S. 645(1993)57
- Ohtsu, Y., see Koyama, J. 625(1992)217
- Ohtsu, Y., see Kutsuna, H. 635(1993)187
- Ohyama, K., see Kobayashi, H. 643(1993)197
- Öi, N., Kitahara, H. and Aoki, F.
Enantiomer separation by high-performance liquid chromatography with copper(II) complexes of Schiff bases as chiral stationary phases 631(1993)177
- Oi, S., Shijo, M., Tanaka, H., Miyano, S. and Yamashita, J.
Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17
- Oi, T., Imai, T. and Kakihana, H.
Lithium isotope effects in water-dimethyl sulphoxide mixed-solvent ion-exchange chromatography 627(1992)187
- Oizumi, J. and Hayakawa, K.
Biocytin synthetase activity in human milk as assessed by high-performance liquid chromatography 612(1993)156
- Oizumi, J., see Hayakawa, K. 617(1993)29
- Oka, K., see Kouno, Y. 622(1993)47
- Okada, S., see Komatsu, H. 644(1993)17
- Okada, T.
Simultaneous cation and reversed-phase chromatography 607(1992)135
- Okada, T.
Automated analyses of non-ionic surfactants in terms of hydrophobic and polyoxyethylated chain lengths 609(1992)213
- Okada, T., Miyakoshi, M., Inoue, M., Miyanabe, M., Ueno, Y. and Nakabayashi, Y.
Differential elution from a Sephadex G-15 column of sodium and phosphate ions of sodium phosphate with sodium or potassium phosphate buffer 604(1992)219
- Okada, Y., see Terabe, S. 608(1992)23
- Okahara, M., see Tanaka, M. 648(1993)469
- Okamoto, M., see Tojo, H. 605(1992)205
- Okamoto, Y., see Hargitai, T. 628(1993)11
- Okamoto, Y., see Kaida, Y. 641(1993)267
- Okamura, N., Yagi, A., Haraguchi, H. and Hashimoto, K.
Simultaneous high-performance liquid chromatographic determination of altersolanol A, B, C, D, E and F 630(1993)418
- Okatan, A., see Özden, S. 609(1992)402
- O'Keefe, D. O., Lee, A. L. and Yamazaki, S.
Use of monobromobimane to resolve two recombinant proteins by reversed-phase high-performance liquid chromatography based on their cysteine content 627(1992)137
- Okuda, T., Aoki, I., Motohashi, M. and Yashiki, T.
Sensitive high-performance liquid chromatographic determination of 2,2'-[(2-aminoethyl)imino]diethanol bis-(butylcarbamate) and its metabolites in human serum following pre-column derivatization with *o*-phthalaldehyde and stabilization of the derivatives 612(1993)263
- Okumura, N., see Iwaki, K. 619(1993)319
- Okumura, N., see Iwaki, K. 623(1992)153
- Okumura, T., see Kuwata, K. 643(1993)25
- Okuyama, T., see Tomita, M. 621(1993)249

- Olesen, O. V. and Poulsen, B.
On-line fully automated determination of clozapine and desmethylclozapine in human serum by solid-phase extraction on exchangeable cartridges and liquid chromatography using a methanol buffer mobile phase on unmodified silica 622(1993)39
- Olesik, S. V., see Cui, Y. 625(1992)131
- Olesik, S. V., see Giddings, L. D. 603(1992)205
- Olieman, C., see Tienstra, P. A. 608(1992)357
- Oliver, Jr., G. W., see Steinberg, J. J. 612(1993)277
- Oliveros, L., Minguillón, C., Desmazières, B. and Desbène, P.-L.
Chiral-bonded silica gel stationary phases obtained from chiral silanes for high-performance liquid chromatography. Comparison of performance with that of stationary phases obtained from γ -aminopropylsilica gel 606(1992)9
- Ollagnier, M., see Gaillard, Y. 619(1993)310
- Ollagnier, M., see Gaillard, Y. 622(1993)197
- Ollivier, E., see Crespín, F. 644(1993)404
- Olsen, B. A., Baertschi, S. W. and Riggín, R. M.
Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165
- Olsen, G. D., see Murphey, L. J. 613(1993)330
- Olsen, L., Brønnum-Hansen, K., Helboe, P., Jørgensen, G. H. and Kryger, S.
Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231
- Olson, J. A., see Barua, A. B. 617(1993)257
- Olsson, N. U.
Advances in planar chromatography for the separation of food lipids (Review) 624(1992)11
- O'Mahony, T. K. P., Cox, A. P. and Roberts, D. J.
Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1
- Omichi, H., see Itagaki, T. 620(1993)149
- Onabe, F., see Hasegawa, M. 635(1993)334
- Onderová, M., see Matisová, E. 629(1993)309
- O'Neil, C. A. and Schwartz, S. J.
Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235
- Ong, C. N., see Lee, B. L. 619(1993)259
- Ong, C. N., see Liau, L. S. 612(1993)63
- Ong, H. Y., see Lee, B. L. 619(1993)259
- Onodera, S., Nagatsuka, A., Rokuhara, T., Asakura, T., Hirayama, N. and Suzuki, S.
Re-evaluation of solid-phase adsorption and desorption techniques for isolation of trace organic pollutants from chlorinated water 642(1993)185
- Onyeji, C. O., see Bolaji, O. O. 622(1993)93
- Oosterkamp, A. J., see Irth, H. 633(1993)65
- Oparil, S., see Meng, Q. C. 614(1993)19
- Orlova, I. L., see Chlenov, M. A. 631(1993)261
- Ormad Melero, M. P., Sarasa Alonso, J., Puig Infante, A., Martínez Navascués, M. C., Cebrián Guajardo, N., Mutuberría Cortabitarte, M. S. and Ovelleiro Narvió, J. L.
Identification by gas chromatography–electron-capture detection and gas chromatography–mass spectrometry of the ozonation products in wastewater from dicofol and tetradifon manufacturing 607(1992)311
- Ørskov, E. R., see Chen, X. B. 617(1993)241
- Osborn, B. L., see Holmes, K. A. 613(1993)317
- O'Shea, T. J., Weber, P. L., Bammel, B. P., Lunte, C. E., Lunte, S. M. and Smyth, M. R.
Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis–electrochemistry 608(1992)189
- Osland, A., see Vefring, H. K. 635(1993)329
- Osman, S. F. and O'Connor, J.
Gas chromatography–mass spectrometry method for the determination of the reducing end of oligo- and polysaccharides 606(1992)285
- Ostacoli, G., see Zerbinati, O. 640(1993)231
- Östermark, U., see Ramnäs, O. 638(1993)65
- Ostrovský, I., see Soják, L. 609(1992)283
- Osuga, T., see Yoshida, T. 613(1993)185
- Ota, A., see Ito, S. 626(1992)187
- Ota, T., see Takagi, T. 629(1993)385
- Otto, A. and Birkenmeier, G.
Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25
- Otvos-Papp, E., see Gorbics, L. 637(1993)43
- Otvos Jr., L., see Gorbics, L. 637(1993)43
- Ou, Q., see Wan, H. 644(1993)202
- Ouwerkerk, J. C., see Scheepers, P. T. J. 619(1993)215
- Ovelleiro Narvió, J. L., see Ormad Melero, M. P. 607(1992)311
- Overgaard, J., see Bergholdt, A. 644(1993)412
- Overklift, G. T., see Damm, J. B. L. 608(1992)297
- Oxley, P. W., see McCrossen, S. D. 623(1992)229
- Ozawa, H.
Gas chromatographic–mass spectrometric determination of halogenated acetic acids in water after direct derivatization 644(1993)375
- Ozawa, H., see Tsukioka, T. 642(1993)395
- Ozawa, K., see Yoshida, T. 613(1993)185
- Özden, S., Özden, T., Attila, I., Küçükislamoglu, M. and Okatan, A.
Isolation and identification via high-performance liquid chromatography and thin-layer chromatography of benzoxazolinone precursors from *Consolida orientalis* flowers 609(1992)402
- Özden, T., see Özden, S. 609(1992)402
- Ozols, R. F., see Brennan, J. M. 620(1993)121

P

- Paavilainen, S. and Korpela, T.
Comparison of high-performance liquid and gas chromatography in the determination of organic acids in culture media of alkaliphilic bacteria 634(1993)273

- Pacáková, V., see Schneiderka, P. 614(1993)221
- Pacheco, F., see Barnes, C. S. 613(1993)281
- Pachinger, A., Begutter, H., Ultsch, I. and Klus, H.
Determination of 4-(methylnitrosamino)-4-(3-pyridyl) butyric acid in tobacco, tobacco smoke and the urine of rats and smokers 620(1993)55
- Pacifici, R., Pichini, S., Altieri, I., Rosa, M., Bacosi, A., Caronna, A. and Zuccaro, P.
Determination of nicotine and two major metabolites in serum by solid-phase extraction and high-performance liquid chromatography, and high-performance liquid chromatography-particle beam mass spectrometry 612(1993)209
- Pacifici, R., see Zuccaro, P. 621(1993)257
- Paddle, B. M. and Dowling, M. H.
Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373
- Padilla, S., see Raymer, J. H. 619(1993)223
- Paesen, J., Claeys, P., Roets, E. and Hoogmartens, J.
Evaluation of silanol-deactivated silica-based reversed phases for liquid chromatography of erythromycin 630(1993)117
- Páez, M. I., see García-Raso, A. 607(1992)221
- Page, B. D. and Lacroix, G.
Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199
- Pagella, P. G., see Zecca, L. 615(1993)169
- Palamareva, M. D. and Kozekov, I. D.
Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113
- Palamareva, M. D., see Meyer, V. R. 641(1993)391
- Palette-Pays, C., see Naline, E. 604(1992)203
- Paliwal, J. K., Gupta, R. C. and Grover, P. K.
Simultaneous determination of a new antimalarial agent, CDRI compound 80/53, and its metabolite primaquine in serum by high-performance liquid chromatography 616(1993)155
- Pallavicini, M., Villa, L. and Cesarotti, E.
High-performance liquid chromatographic determination of the enantiomeric excess of 1,3-glycerol diethers obtained by stereoselective catalytic reduction 604(1992)197
- Pallucca, E., see Benfenati, E. 605(1992)129
- Palmisano, F., see Guerrieri, A. 617(1993)71
- Palou, A., see Lladó, I. 619(1993)21
- Pampliega, A., see Del Nozal, M. J. 607(1992)183
- Pan, F.-M. and Chang, W.-C.
Purification of growth hormones by reversed-phase high-performance liquid chromatography 613(1993)326
- Pankow, J. F., see Rounds, S. A. 629(1993)321
- Panteix, G., see Guichard, J. 612(1993)269
- Pantsar, M., see Lukkari, P. 632(1993)143
- Paolantonacci, P., see Bihoreau, N. 612(1993)49
- Paolillo, M., Preda, S., Corona, G. L. and Schinelli, S.
Measurement of 5-hydroxytryptamine and 5-hydroxyindoleacetic acid in cultured rat mesencephalic neurons by high-performance liquid chromatography with electrochemical detection 613(1993)231
- Papageorgiou, V. P., see Bakola-Christianopoulou, M. N. 645(1993)293
- Paphassarang, S., see Girin, M. A. 637(1993)206
- Paquot, M., see Razafindralambo, H. 639(1993)81
- Parbus, S., see Velleman, M. 625(1992)41
- Parisot, F., see Candito, M. 614(1993)164
- Park, J., see Kim, K.-R. 641(1993)319
- Park, S. A., see Shaw, C. J. 631(1993)173
- Parker, C. E., Perkins, J. R., Tomer, K. B., Shida, Y. and O'Hara, K.
Nanoscale packed capillary liquid chromatography-electrospray ionization mass spectrometry: analysis of penicillins and cepheps 616(1993)45
- Parkin, D. P., see Seifart, H. I. 619(1993)285
- Parkin, J. E.
Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75
- Parra, P., see Rosell, G. 619(1993)87
- Parrish, C. C., Bodennec, G. and Gentien, P.
Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97
- Parsons, W. R., see Bright, G. M. 621(1993)1
- Parvoli, G., see Sturaro, A. 628(1993)316
- Parvoli, G., see Sturaro, A. 643(1993)435
- Pasch, H., Brinkmann, C., Much, H. and Just, U.
Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide-block-propylene oxide) 623(1992)315
- Paschke, T., Hawthorne, S. B., Miller, D. J. and Wenclawiak, B.
Supercritical fluid extraction of nitrated polycyclic aromatic hydrocarbons and polycyclic aromatic hydrocarbons from diesel exhaust particulate matter 609(1992)333
- Pascual, M. L., Muiño-Blanco, T., Cebrián-Pérez, J. A. and López-Pérez, M. J.
Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system 617(1993)51
- Pascual, P., see Martínez-Lara, E. 609(1992)141
- Pasquier, M.-C., Sabbagh, L., Vallot, T. and Vatiez, J.
Molecular fractionation of gastric mucus component by high-performance liquid chromatography: application to pig gastric mucus *in vitro* and to human gastric mucus collected by aspiration during gastric endoscopy 614(1993)27
- Passa, A. R., see Zuccaro, P. 621(1993)257
- Pastor, J. C., see Del Nozal, M. J. 607(1992)183
- Pastor, M. D., Sanchez, J., Barceló, D. and Albaigés, J.
Determination of coplanar polychlorobiphenyl congeners in biota samples 629(1993)329

- Pastore, P., Lavagnini, I. and Versini, G.
Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47
- Pasutto, F. M., see Freitag, D. G. 616(1993)253
- Patrick, K. S., Boggan, W. O., Miller, S. R. and Middaugh, L. D.
Gas chromatographic-mass spectrometric determination of plasma and brain cocaine in mice 621(1993)89
- Pawliszyn, J., see Hawthorne, S. B. 603(1992)185
- Pawliszyn, J., see Potter, D. W. 625(1992)247
- Pawliszyn, J., see Wu, J. 608(1992)121
- Pawlowska, M., Chen, S. and Armstrong, D. W.
Enantiomeric separation of fluorescent, 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate, tagged amino acids 641(1993)257
- Pawlowska, M., see Zukowski, J. 623(1992)33
- Pawlowska, M., see Zukowski, J. 629(1993)169
- Payne, K. M., see Raynie, D. E. 638(1993)75
- Pays, M., see Houzé, P. 619(1993)251
- Pays, M., see Naline, E. 604(1992)203
- Pchelkin, V. P. and Vereshchagin, A. G.
Reversed-phase thin-layer chromatography of diacylglycerols in the presence of silver ions 603(1992)213
- Pearson, A. D. J., see Fleming, S. C. 640(1993)293
- Pearson, K. S., see Simon, V. A. 643(1993)317
- Peart, T. E., see Lee, H.-B. 605(1992)109
- Peart, T. E., see Lee, H.-B. 636(1993)263
- Pecorari, P., see Vampa, G. 604(1992)261
- Pedersen, J., Pedersen, M., Søbørg, H. and Biedermann, K.
Separation of isoforms of *Serratia marcescens* nuclease by capillary electrophoresis 645(1993)353
- Pedersen, M., see Pedersen, J. 645(1993)353
- Pedersen, M. J., see Mills, M. S. 629(1993)111
- Pedrosa, M. M., see Estrella Legaz, M. 607(1992)245
- Peggins, J. O., see Marino, M. T. 616(1993)338
- Pekay, L. A., see Giddings, L. D. 603(1992)205
- Pellegrino, G., see Bicchi, C. 609(1992)305
- Peltonen, K., Canella, K. and Dipple, A.
High-performance liquid chromatographic separation of purine deoxyribonucleoside monophosphate-benzo[a]pyrene adducts 623(1992)247
- Peltonen, K., see Kostianen, R. 647(1993)91
- Peña-Heras, A., see De la Colina, C. 607(1992)203
- Peng, Y.-T., Shum, A. Y.-C., Tsai, T.-H., Lin, L.-C. and Chen, C.-F.
High-performance liquid chromatography of the quinazolinocarboline alkaloid dehydroevodiamine 617(1993)87
- Penn, S. G., Goodall, D. M. and Loran, J. S.
Differential binding of tioconazole enantiomers to hydroxypropyl- β -cyclodextrin studied by capillary electrophoresis 636(1993)149
- Pentzke, G., see Furton, K. G. 642(1993)33
- Perez, J. A., see Chicharro, M. 622(1993)103
- Pérez-Jiménez, F., see Ruiz-Gutiérrez, V. 622(1993)117
- Pérez Coello, M. S., see Sánchez Muñoz, G. 623(1992)43
- Pérez Giménez, F., see Soler Roca, R. M. 607(1992)91
- Perkins, J. R., see Parker, C. E. 616(1993)45
- Perrett, D., see Grune, T. 636(1993)105
- Perrett, D., see James, I. 612(1993)41
- Perrett, D., see Ross, G. A. 636(1993)69
- Perrino, P. J., see Moore, D. J. 612(1993)310
- Perrut, M., see Fuchs, G. 623(1992)329
- Perry, R. L., see Tindall, G. W. 633(1993)227
- Perry, R. L., see Tindall, G. W. 641(1993)163
- Persson, B., see Nice, E. 646(1993)159
- Persson, B.-A., see Balmér, K. 631(1993)191
- Persson, P., see Dalene, M. 626(1992)284
- Pesek, J. J., Sandoval, J. E. and Su, M.
New alumina-based stationary phases for high-performance liquid chromatography. Synthesis by olefin hydrosilation on a silicon hydride-modified alumina intermediate 630(1993)95
- Pesliakas, H., see Žutautas, V. 606(1992)55
- Peters, K., Fittkau, S., Steinert, A. and Ströhl, D.
Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91
- Petersen, J., see Vinther, A. 608(1992)205
- Peterson, E. A., see Torres, A. R. 604(1992)39
- Peterson, T. E.
Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353
- Peterson, T. E. and Trowbridge, D.
Quantitation of *l*-epinephrine and determination of the *d*-/*l*-epinephrine enantiomer ratio in a pharmaceutical formulation by capillary electrophoresis 603(1992)298
- Petersson, G., see Barrefors, G. 643(1993)71
- Petersson, G., see Ramnäs, O. 638(1993)65
- Petersson, P., Lundell, N. and Markides, K. E.
Chiral separations in supercritical fluid chromatography: a multivariate optimization method 623(1992)129
- Petitjean, O., see Prevot, M. 605(1992)33
- Petrick, G., see Kannan, N. 642(1993)425
- Petro, M., see Mislavičová, D. 646(1993)411
- Petrović, M., Kaštalan-Macan, M. and Horvat, A. J. M.
Thin-layer chromatographic behaviour of substituted phenolic compounds on silica gel layers impregnated with Al(III) and Cu(II) 607(1992)163
- Petrukhin, O. M., see Timerbaev, A. R. 648(1993)307
- Pettersson, C., see Bergqvist, Y. 620(1993)217
- Pettersson, C., see Marle, I. 604(1992)185
- Pettersson, C., see Marle, I. 648(1993)333
- Pettersson, G., see Marle, I. 648(1993)333
- Pettersson, G., see Valtcheva, L. 638(1993)263
- Pettersson, T., see Zhang, Z. 604(1992)143
- Pettinati, U., see Gerbino, T. C. 634(1993)338
- Pezzoni, A., see De Paoli, M. 626(1992)145
- Pfeifer, M., see Belsner, K. 629(1993)123
- Philippon, F., see Fiset, C. 612(1993)231
- Phillips, A. C., see Gross, A. S. 621(1993)115
- Phillips, D., see Bishop, S. M. 646(1993)345
- Phinney, C. S., see Eganhouse, R. P. 628(1993)81
- Pianetti, G. A., see Baillet, A. 616(1993)311
- Pianetti, G. A., Taverna, M., Baillet, A., Mahuzier, G. and Baylocq-Ferrier, D.
Determination of alkylphosphonic acids by capillary zone electrophoresis using indirect UV detection 630(1993)371
- Pianezzola, E., see Breda, M. 620(1993)225
- Pibarot, P., see Maignial, L. 606(1992)87

- Pichini, S., see Pacifici, R. 612(1993)209
 Pichini, S., see Zuccaro, P. 621(1993)257
 Pickard, K., see Scislowski, P. W. D. 619(1993)299
 Picó, Y., see Font, G. 642(1993)135
 Picó, Y., see Mañes, J. 642(1993)195
 Pierce, J. J., see Berry, M. J. 629(1993)161
 Pierini, M., see Gasparrini, F. 633(1993)81
 Pietrzyk, D. J., see Lovdahl, M. J. 602(1992)197
 Pietrzyk, D. J., see Simonson, P. G. 640(1993)379
 Pietsch, C., see Georgi, G. 613(1993)35
 Pietta, P., Mauri, P., Bruno, A. and Zini, L.
 High-performance liquid chromatography and micellar electrokinetic chromatography of flavonol glycosides from *Tilia* 638(1993)357
 Pikus, S., see Choma, I. 641(1993)205
 Pinault, L., see Pouliquen, H. 627(1992)287
 Pinedo, H. M., see Beijnen, J. H. 617(1993)111
 Pinedo, H. M., see Van Gijn, R. 614(1993)299
 Pinilla, C., see Büttner, K. 625(1992)191
 Pinkston, J. D., Venkatramani, C. J., Tulich, L. J., Bowling, D. J. and Wehmeyer, K. R.
 Evaluation of capillary supercritical fluid chromatography with mass spectrometric detection for the analysis of a drug (mebeverine) in a dog plasma matrix 622(1993)209
 Pintér-Szakács, M., see Molnár-Perl, I. 632(1993)57
 Pinteur, B., see Jourdil, N. 613(1993)59
 Pinto, N. G., see King, J.-K. 609(1992)61
 Piór, H., see Puchała, R. 623(1992)63
 Pipe, A. J., see Bevan, C. D. 636(1993)113
 Pirkle, W. H. and Murray, P. G.
 Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11
 Pirkle, W. H., Murray, P. G. and Burke, J. A.
 Use of homologous series of analytes as mechanistic probes to investigate the origins of enantioselectivity on two chiral stationary phases 641(1993)21
 Pirkle, W. H., see Welch, C. J. 609(1992)89
 Pirkle, W. H., Welch, C. J. and Hyun, M. H.
 Concerning the role of face-to-edge π - π interactions in chiral recognition 607(1992)126
 Pirkle, W. H., Welch, C. J. and Yang, Q.
 Comments on a report of the separation of the enantiomers of π -donor analytes on π -donor chiral stationary phases 639(1993)329
 Pirkle, W. H., Welch, C. J. and Zych, A. J.
 Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101
 Piskin, E., see Tuncel, A. 634(1993)161
 Pitard, B., see Billot, P. 623(1992)305
 Pitts, J. M., see Stewart, D. J. 623(1992)1
 Pizzale, L., see Bortolomeazzi, R. 626(1992)109
 Pleasance, S., see Hogge, L. R. 623(1992)255
 Plešek, J., Grüner, B. and Maloň, P.
 Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197
 Plešek, J., Grüner, B., Vaněk, T. and Votavová, H.
 Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73
 Plomp, T. A. and Buijs, M. J. H.
 High-performance liquid chromatographic method for the simultaneous determination of pentisomide and its major metabolite N-desisopropylpentisomide in plasma, urine and tissues using solid-phase extraction 612(1993)123
 Po, R., see Guarini, A. 647(1993)311
 Pobozy, E., Sweryda-Krawiec, B. and Trojanowicz, M.
 Ion interaction chromatography with nonylamine reagent for the determination of nitrite and nitrate in natural waters 633(1993)305
 Podkladenko, A. M., see Belenkii, B. G. 645(1993)1
 Poe, D. P.
 Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299
 Poglits, E., see Seidel, V. 635(1993)227
 Pohl, C. A., see Jensen, D. 640(1993)65
 Pohl, C. A., see Siriraks, A. 602(1992)89
 Poesi, C., see Tagliaro, F. 638(1993)303
 Poitrenaud, F., see Lucas, D. 622(1993)79
 Pokrajac, L. A., see Barkley, D. J. 606(1992)195
 Polesello, S., see Rizzolo, A. 624(1992)103
 Poletto, B., see Muller, N. 616(1993)261
 Poliakoff, M., see Jenkins, T. J. 626(1992)53
 Politano, S., see Candito, M. 617(1993)304
 Polonský, J., see Buzinkaiová, T. 638(1993)231
 Polonský, J., see Karovičová, J. 638(1993)241
 Polverelli, M., Berger, M., Odin, F. and Cadet, J.
 Simple chromatographic systems permitting both DNA purification and separation of 2'-deoxyribonucleoside 3'-monophosphates as substrates for 32 P-postlabelling studies 613(1993)257
 Polymeropoulos, C. E., see Qian, J. 609(1992)269
 Pons, A., see Lladó, I. 619(1993)21
 Pontieri, G. M., see Previti, M. 605(1992)221
 Poole, C. F., see Abraham, M. H. 646(1993)351
 Poole, C. F., see Erney, D. R. 638(1993)57
 Poole, C. F., see Jayatilaka, A. 617(1993)19
 Poon, G. K., Griggs, L. J., Edwards, C., Beattie, K. A. and Codd, G. A.
 Liquid chromatography-electrospray ionization-mass spectrometry of cyanobacterial toxins 628(1993)215
 Popiel, E. J., see Chen Jr., E. N. 637(1993)181
 Popov, S., see Bankova, V. 607(1992)150
 Popović, T., Brzin, J., Ritonja, A., Svetić, B. and Turk, V.
 Rapid affinity chromatographic method for the isolation of human cathepsin H 615(1993)243
 Poppe, H., see Bruin, G. J. M. 608(1992)97
 Poppe, H., see Busch, S. 635(1993)119
 Poppe, H., see Kraak, J. C. 608(1992)257
 Poppe, H., see Stegeman, G. 634(1993)149
 Poppe, H., see Van Asten, A. C. 644(1993)83
 Porath, J., see Brena, B. M. 604(1992)109
 Porath, J., see Chaga, G. 627(1992)163
 Porath, J., see Walenius, M. 604(1992)5
 Porath, J. O., see Chaga, G. S. 604(1992)177
 Porath, J. O., see Muszyńska, G. 604(1992)19

- Porretta, S.
Chromatographic analysis of Maillard reaction products (Review) 624(1992)211
- Portnoy, J., see Barnes, C. S. 613(1993)281
- Portsmouth, M. J., see Altria, K. D. 641(1993)147
- Pospichal, J., Deml, M. and Boček, P.
Electrically controlled electrofocusing of ampholytes between two zones of modified electrolyte with two different values of pH 638(1993)179
- Pospíšek, J., see Kašička, V. 608(1992)13
- Postaire, E., see Regnault, C. 607(1992)159
- Potaman, V. N., Chernov, I. P. and Demidov, V. V.
High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151
- Pothier, J., Galand, N. and Viel, C.
Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356
- Potschka, M.
Foreword 648(1993)1
- Potschka, M.
Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41
- Potter, D. W. and Pawliszyn, J.
Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography-ion trap mass spectrometry 625(1992)247
- Pouliquen, H., Keita, D. and Pinault, L.
Determination of oxytetracycline in marine shellfish (*Crassostrea gigas*, *Ruditapes philippinarum* and *Scrobicularia plana*) by high-performance liquid chromatography using solid-phase extraction 627(1992)287
- Poulsen, B., see Olesen, O. V. 622(1993)39
- Pousset, J. L., see Rey, J.-P. 605(1992)124
- Pousset, J.-L., see Rey, J.-P. 641(1993)180
- Pozidis, C., Vlatakis, G. and Bouriotis, V.
Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151
- Prachar, V., see Veningerová, M. 622(1993)274
- Prada, J. L., see Ruiz-Gutiérrez, V. 622(1993)117
- Praefcke, K., see Kraus, A. 609(1992)277
- Prakash, A., see Dua, V. K. 614(1993)87
- Praznik, W., see Rammesmayr, G. 623(1992)399
- Preda, S., see Paolillo, M. 613(1993)231
- Predieri, G., see Careri, M. 634(1993)143
- Predieri, G., see Careri, M. 647(1993)79
- Preisler, L., see Matuška, R. 606(1992)136
- Preiss, A., see Volmer, D. 647(1993)235
- Press, J. B., see Shaw, C. J. 631(1993)173
- Pretorius, W. G., Ebdon, L. and Rowland, S. J.
Development of a high-temperature gas chromatography-inductively coupled plasma mass spectrometry interface for the determination of metalloporphyrins 646(1993)369
- Previti, M., Dotta, F., Pontieri, G. M., Di Mario, U. and Lenti, L.
Determination of gangliosides by high-performance liquid chromatography with photodiode-array detection 605(1992)221
- Prevost, D., see Legrand, R. 647(1993)3
- Prevosto, J.-M., see Chaulet, J.-F. 613(1993)303
- Prevot, M., Tod, M., Chalom, J., Nicolas, P. and Petitjean, O.
Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33
- Price, J. A., see Andrew, M. 640(1993)111
- Price, N. P. J. and Gray, D. O.
Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165
- Prince, I., see Dasari, G. 631(1993)115
- Prince, I. G., see Mao, Q. M. 646(1993)67
- Prince, I. G., see Mao, Q. M. 646(1993)81
- Principato, G., see Caccamese, S. 623(1992)159
- Prokop, T., see Bächmann, K. 643(1993)181
- Proost, J. H., see Kleef, U. W. 621(1993)65
- Proprentner, R., see Mader, R. M. 613(1993)311
- Prorok, G. D., see Rimerman, R. A. 619(1993)29
- Provost, L. R., see D'Agostino, P. A. 645(1993)283
- Prusík, Z., see Kašička, V. 608(1992)13
- Przybylski, M., see Weinmann, W. 628(1993)111
- Puchała, R., Piór, H., Kulasek, G. W. and Shelford, J. A.
Determination of diaminopimelic acid in biological materials using high-performance liquid chromatography 623(1992)63
- Puig Infante, A., see Ormad Melero, M. P. 607(1992)311
- Purbrick, M. D., see Bamford, C. H. 606(1992)19
- Purcell, W. P., see Kaliszan, R. 609(1992)69
- Purdy, W. C., see Li, S. 625(1992)109
- Purghart, V. and Games, D. E.
Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139
- Purvis, D., see Tuncel, A. 634(1993)161
- Purvis, D. R., see McCreath, G. E. 629(1993)201
- Purvis, D. R., see Stewart, D. J. 623(1992)1
- Puschendorf, B., see Lindner, H. 608(1992)211
- Pyell, U., Garrigues, P., Félix, G., Rayez, M. T., Thienpont, A. and Dentraygues, P.
Separation of tetrachloro-*p*-dioxin isomers by high-performance liquid chromatography with electron-acceptor and electron-donor stationary phases 634(1993)169
- Pyell, U., Garrigues, P. and Rayez, M. T.
Influence of shape parameters on the separation of tetrachlorodibenzo-*p*-dioxin isomers on reversed-phase columns 628(1993)3

Q

- Qi, X., see Hamedani, M. P. 619(1993)191
- Qian, J., Polymeropoulos, C. E. and Ulisse, R.
Liquid jet evolution from a gas chromatographic injector 609(1992)269
- Qian, Y. and Fritz, J. S.
New thiohydrazones for complexation and chromatographic determination of metal ions 602(1992)103
- Qin, X.-Z., Ip, D. P. and Tsai, E. W.
Determination and rotamer separation of enalapril maleate by capillary electrophoresis 626(1992)251
- Quan, C. P., see Cacia, J. 634(1993)229
- Que Hee, S. S., see Cancilla, D. A. 627(1992)1
- Quilliam, M. A., see Janeček, M. 619(1993)63
- Quilliam, M. A., see Janeček, M. 644(1993)321
- Quinn, A. M., see Sereda, T. J. 646(1993)17
- Quinn, C. J., see Alexander IV, J. N. 647(1993)95
- Quintens, I., see Roets, E. 630(1993)159
- Quintero, G., see Farkas, G. 645(1993)67

R

- Raatikainen, O., see Tóth, Z. A. 630(1993)423
- Rabel, S. R., Stobaugh, J. F., Heinig, R. and Bostick, J. M.
Improvements in detection sensitivity for the determination of ivermectin in plasma using chromatographic techniques and laser-induced fluorescence detection with automated derivatization 617(1993)79
- Rabillon, J., see Dandeu, J.-P. 621(1993)23
- Rabin, S., Stillian, J., Barreto, V., Friedman, K. and Toofan, M.
New membrane-based electrolytic suppressor device for suppressed conductivity detection in ion chromatography 640(1993)97
- Rabino, R., see Castagnola, M. 638(1993)327
- Radebaugh, G. W., see Hauss, D. J. 613(1993)336
- Radice, D., see Zecca, L. 615(1993)169
- Radke, M., see Budzinski, H. 627(1992)227
- Radulovic, L. L., see Windsor, B. L. 619(1993)315
- Rafidison, P., see Baillet, A. 634(1993)251
- Ragunathan, N., see Krock, K. A. 645(1993)153
- Rainer, H., see Mader, R. M. 613(1993)311
- Rais-Firouz, A., see McDonnell, T. 629(1993)41
- Rakoto, C., see Van Nifterik, L. 640(1993)335
- Ramanathan, S., Nair, N. K., Mansor, S. M. and Navaratnam, V.
Determination of a new antifilarial drug, UMF-058, and mebendazole in whole blood by high-performance liquid chromatography 615(1993)303
- Ramis, I., see Hotter, G. 607(1992)239
- Rammesmayr, G. and Praznik, W.
Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399
- Ramnäs, O., Östermark, U. and Petersson, G.
Assessment by gas chromatography-mass spectrometry of hexenes emitted to air from petrol 638(1993)65
- Ranalder, U. B., Lausecker, B. B. and Huselton, C.
Micro liquid chromatography-mass spectrometry with direct liquid introduction used for separation and quantitation of all-*trans*- and 13-*cis*-retinoic acids and their 4-oxo metabolites in human plasma 617(1993)129
- Rao, D. V., see Harapanhalli, R. S. 614(1993)233
- Rao, T. H., see Saraswati, R. 605(1992)63
- Rapala-Kozik, M., see Kozik, A. 648(1993)349
- Rasmussen, K. E., see Andresen, A. T. 621(1993)189
- Rasmussen, K. E., see Krogh, M. 621(1993)41
- Rathore, H. S. and Begum, T.
Thin-layer chromatographic methods for use in pesticide residue analysis (Review) 643(1993)271
- Rathore, H. S. and Begum, T.
Thin-layer chromatographic behaviour of carbamate pesticides and related compounds 643(1993)321
- Rating, D., see Hoffmann, G. F. 617(1993)1
- Raulin, F., see De Vanssay, E. 639(1993)255
- Rauwald, H. W. and Beil, A.
High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359
- Ravanetti, G. P., see Bonifaci, L. 607(1992)145
- Ravanetti, G. P., see Bonifaci, L. 641(1993)301
- Raverdino, V., see Bicchi, C. 609(1992)305
- Raverdino, V., see Careri, M. 647(1993)79
- Ravichandran, K., see Saari-Nordhaus, R. 602(1992)15
- Ravishankar, G. A., see Sujata, V. 624(1992)497
- Rawjee, Y. Y., Staerk, D. U. and Vigh, G.
Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenopfen and ibuprofen 635(1993)291
- Rayez, M. T., see Pyell, U. 628(1993)3
- Rayez, M. T., see Pyell, U. 634(1993)169
- Raymer, J. H., Sparacino, C. M., Velez, G. R., Padilla, S., MacPhail, R. C. and Crofton, K. M.
Determination of acrylamide in rat serum and sciatic nerve by gas chromatography-electron-capture detection 619(1993)223
- Raymond, F. D., see Walter, H. 609(1992)219
- Raynaud, F., Walton, M. and Judson, I.
High-performance liquid chromatographic assay for the measurement of the novel microtubule inhibitor 1069C85 in biological tissues and fluids 622(1993)243

- Raynaud, J., see Girin, M. A. 637(1993)206
- Rayner, M. S., see Nichols, P. D. 643(1993)189
- Raynie, D. E., Payne, K. M., Markides, K. E. and Lee, M. L.
Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75
- Raza, S. K., Howell, S. A. and Mallet, A. I.
Identification of mycotoxins in keratomycosis-derived *Fusarium* isolates by gas chromatography-mass spectrometry 620(1993)243
- Razafindralambo, H., Paquot, M., Hbid, C., Jacques, P., Destain, J. and Thonart, P.
Purification of antifungal lipopeptides by reversed-phase high-performance liquid chromatography 639(1993)81
- Read, R. W., see Black, R. M. 637(1993)71
- Recanatini, M., see Biagi, G. L. 625(1992)392
- Reddy, K. S., Dutoit, J.-C. and Kováts, E.
Pair-wise interactions by gas chromatography. I.
Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229
- Reddy, M. V.
C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen-DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245
- Redenti, E., see Rondelli, I. 612(1993)95
- Reeder, D. J., see Hancock, D. K. 646(1993)335
- Reeuwijk, H. J. E. M., Irth, H., Tjaden, U. R., Merkus, F. W. H. M. and Van der Greef, J.
Liquid chromatographic determination of β -cyclodextrin derivatives based on fluorescence enhancement after inclusion complexation 614(1993)95
- Reglero, G., see Blanch, G. P. 628(1993)261
- Reglero, G., see Señoráns, F. J. 648(1993)407
- Regnault, C., Delvordre, P., Bonnier, H. and Postaire, E.
Development of a specific device for densitometry of thin-layer chromatographic sheets in planar chromatography 607(1992)159
- Regnier, F. E., see Bao, J. 608(1992)217
- Regnier, F. E., see Riggin, A. 632(1993)37
- Regnier, F. E., see Varady, L. 631(1993)107
- Regnier, F. E., see Wu, D. 608(1992)349
- Regnier, F. E., see Yao, X.-W. 632(1993)185
- Regnier, F. E., see Yao, X.-W. 636(1993)21
- Reichlmayr-Lais, A. M., see Eder, K. 607(1992)55
- Reid, R. W., Deakin, A. and Leehey, D. J.
Measurement of naloxone in plasma using high-performance liquid chromatography with electrochemical detection 614(1993)117
- Reid, III, G. L., Monge, C. A., Wall, W. T. and Armstrong, D. W.
Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135
- Reid, III, G. L., Wall, W. T. and Armstrong, D. W.
Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143
- Reijenga, J. C., Trieling, R. G. and Kaniansky, D.
Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195
- Rein, J., see Furton, K. G. 629(1993)3
- Reinholdsson, P., see Hargitai, T. 630(1993)79
- Reinhold, N. J., Tinke, A. P., Tjaden, U. R., Niessen, W. M. A. and Van der Greef, J.
Capillary isotachopheretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263
- Reinhold, N. J., Tjaden, U. R. and Van der Greef, J.
Automated isotachopheretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155
- Remberger, M., see Hynning, P.-Å. 643(1993)439
- Rementer, S. W., see Yau, W. W. 630(1993)69
- Renaud, B., see Beaudouin, C. 613(1993)51
- Renaud, J. M., Keller, I. and Vuillaume, G.
Determination of maleic hydrazide residues in cured tobacco by gas chromatography 604(1992)243
- Rennick, K. A., see Abidi, S. L. 639(1993)175
- Resines, J. A., Arin, M. J. and Díez, M. T.
Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199
- Reuveni, R., see Shimoni, M. 646(1993)99
- Revesz, G., see Hajos, P. 640(1993)15
- Revilla, E., see Ling, C. F. 643(1993)351
- Rey, C., see Muzquiz, M. 607(1992)349
- Rey, J.-P., Levesque, J. and Pousset, J. L.
Extraction and high-performance liquid chromatographic methods for the γ -lactones parthenolide (*Chrysanthemum parthenium* Bernh.), marrubiin (*Marrubium vulgare* L.) and artemisinin (*Artemisia annua* L.) 605(1992)124
- Rey, J.-P., Levesque, J. and Pousset, J.-L.
Analytical studies of *dl*-stylopine in *Chelidonium majus* L. using high-performance liquid chromatography 641(1993)180
- Rey, M. A., see Jensen, D. 640(1993)65
- Reymond, P., Amey, M., Souche, A., Lambert, S., Konrat, H., Eap, C. B. and Baumann, P.
Determination of plasma levels of citalopram and its demethylated and deaminated metabolites by gas chromatography and gas chromatography-mass spectrometry 616(1993)221
- Reynolds, D. L., see Sly, L. A. 641(1993)249
- Reynolds, E. C., see Adamson, N. 646(1993)391
- Řezanka, T.
Identification of very-long-chain acids from peat and coals by capillary gas chromatography-mass spectrometry 627(1992)241
- Řezanka, T. and Sokolov, M. Y.
Rapid method for the enrichment of very long-chain fatty acids from microorganisms 636(1993)249
- Rhee, J., see Hong, J. 639(1993)261
- Rhodes, G. R., see Boppana, V. K. 631(1993)251
- Rhodes, G. R., see Miller-Stein, C. 631(1993)233
- Rhodes, G. R., see Simpson, R. C. 631(1993)227
- Rhodes, J. M., see Campbell, B. J. 622(1993)137

- Ribeiro, E. A.
Quantitative analysis of enzymic digests of DNA using gel electrophoresis (Review) 618(1993)181
- Ricciarello, G., see Zuccaro, P. 621(1993)257
- Richards, M. P., see Beattie, J. H. 632(1993)127
- Richards, M. P. and Beattie, J. H.
Characterization of metallothionein isoforms.
Comparison of capillary zone electrophoresis with reversed-phase high-performance liquid chromatography 648(1993)459
- Richardson, D. E., see Volkman, J. K. 643(1993)209
- Richberg, P., see Hughes, D. E. 635(1993)313
- Riekkola, M.-L., see Hawthorne, S. B. 634(1993)297
- Riekkola, M.-L., see Kontsas, H. 636(1993)255
- Riekkola, M.-L., see Lukkari, P. 608(1992)317
- Riekkola, M.-L., see Lukkari, P. 632(1993)143
- Riekkola, M.-L., see Sirén, H. 632(1993)215
- Riekkola, M.-L., see Soini, H. 608(1992)265
- Riggin, A., Sportsman, J. R. and Regnier, F. E.
Immunochromatographic analysis of proteins.
Identification, characterization and purity determination 632(1993)37
- Riggin, R. M., see Olsen, B. A. 648(1993)165
- Righetti, P. G.
Capillary electrophoresis—principles, practice and applications (by S. F. Y. Li) (Book Review) 623(1992)200
- Righetti, P. G., see Bello, M. S. 606(1992)95
- Righetti, P. G., see Bello, M. S. 606(1992)103
- Righetti, P. G., see Bello, M. S. 625(1992)323
- Righetti, P. G., see Chiari, M. 645(1993)197
- Righetti, P. G., Chiari, M., Nesi, M. and Caglio, S.
Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis 638(1993)165
- Righetti, P. G., see Gelfi, C. 608(1992)333
- Righetti, P. G., see Gelfi, C. 608(1992)343
- Righetti, P. G., see Giaffreda, E. 630(1993)313
- Righezza, M., see Chrétien, J. R. 609(1992)261
- Rijks, J. A., see Staniewski, J. 623(1992)105
- Riley, P. F., see Adamson, N. 646(1993)391
- Rillema, D. P., see Daignault, L. G. 602(1992)3
- Rimerman, R. A., Prorok, G. D., Cordel, K. L., Shahwan, A. M. and Vaughan, W. P.
Improved high-performance liquid chromatographic analysis of intracellular deoxyribonucleoside triphosphate levels 619(1993)29
- Rinehart, J. T., see Conforti, F. D. 645(1993)83
- Risser, F., see Degen, P. H. 623(1992)191
- Rissler, K., Katlein, R. and Cramer, H.
Recovery of substance P and related C-terminal fragments on solid-phase extraction cartridges for subsequent high-performance liquid chromatographic separation and radioimmunoassay 612(1993)150
- Rissler, K., Künzi, H.-P. and Grether, H.-J.
Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89
- Ritonja, A., see Popović, T. 615(1993)243
- Ritter, S., Komenda, J., Šetlíková, E., Šetlik, I. and Welte, W.
Immobilized metal affinity chromatography for the separation of photosystems I and II from the thermophilic cyanobacterium *Synechococcus elongatus* 625(1992)21
- Rivera, J., see Galceran, M. T. 643(1993)399
- Riviello, J., see Harrold, M. P. 602(1992)119
- Riviello, J., see Harrold, M. P. 640(1993)463
- Riviello, J. M., see Cardellicchio, N. 640(1993)207
- Rivier, J., see Aguilar, M. I. 646(1993)53
- Rivier, J. E., see Kirby, D. A. 648(1993)257
- Rizovski, B., see Mader, R. M. 613(1993)311
- Rizzi, A., see Schützner, W. 639(1993)375
- Rizzo, R., see Amelio, M. 606(1992)179
- Rizzolo, A. and Polesello, S.
Chromatographic determination of vitamins in foods (Review) 624(1992)103
- Robbat, Jr., A., Liu, C. and Liu, T.-Y.
Field detection of organochlorine pesticides by thermal desorption gas chromatography–mass spectrometry 625(1992)277
- Robert, J., see Kleiböhmer, W. 638(1993)349
- Roberts, D. J., see O'Mahony, T. K. P. 637(1993)1
- Roberts, N. B., see Jones, A. T. 646(1993)207
- Roberts, R., see Johnson, D. C. 640(1993)79
- Roberts II, L. J., see Awad, J. A. 617(1993)124
- Robertson, P., see Moore, D. J. 612(1993)310
- Robet, Y., see Chaulet, J.-F. 613(1993)303
- Robinson, J. J., see Excoffier, J.-L. 631(1993)15
- Roche, C., see Guichard, J. 612(1993)269
- Rocheleau, M. J., see Harke, H. R. 608(1992)143
- Rodén, L., Rodén, M., Yu, H., Jin, J. and Greenshields, J.
Separation of sugars by ion-exclusion chromatography on a cation-exchange resin 638(1993)29
- Rodén, M., see Rodén, L. 638(1993)29
- Röder, A., see Bächmann, K. 643(1993)181
- Röder, T., see Tsikas, D. 622(1993)1
- Rodgers, A. H., Strasters, J. K. and Khaledi, M. G.
Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203
- Rodgers, J. P., see Stanley, S. M. R. 614(1993)77
- Rodgers, J. P., see Stanley, S. M. R. 620(1993)250
- Rodrigues, A., see Bright, G. M. 621(1993)1
- Rodriguez, A. F., see Imaz, C. 631(1993)201
- Rodriguez, C., see Imaz, C. 631(1993)201
- Rodriguez, R., see Zhu, M. 608(1992)225
- Rodriguez, S. Y., see Lam, Y. W. F. 612(1993)166
- Rodriguez Gonzalo, E., see Carabias Martinez, R. 607(1992)37
- Rodriguez Gonzalo, E., see Carabias Martinez, R. 644(1993)49
- Roeraade, J., see Jansson, M. 626(1992)310
- Roets, E., Beirinckx, P., Quintens, I. and Hoogmartens, J.
Quantitative analysis of tylosin by column liquid chromatography 630(1993)159
- Roets, E., see Hendrix, C. 628(1993)49
- Roets, E., see Hendrix, C. 634(1993)257
- Roets, E., see Paesen, J. 630(1993)117
- Roets, E., see Van Schepdael, A. 648(1993)299

- Rogers, B. L., see Keating, K. M. 631(1993)269
- Roggero, M. A., see Baiocchi, C. 644(1993)259
- Roggeveld, J., see Kleef, U. W. 621(1993)65
- Rohr, K., see Valenta, H. 613(1993)295
- Rokuhara, T., see Onodera, S. 642(1993)185
- Rokushika, S., Yamamoto, F. M. and Kihara, K.
Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195
- Rolf, C., see Schleyer, E. 614(1993)275
- Rolfe, C., see Sherma, J. 643(1993)337
- Romanello, M., Michalsky, M., Stagni, N., Moro, L., Favretto, D. and Traldi, P.
High-performance liquid chromatographic and mass spectrometric identification of phosphocitrate synthesized by human kidney homogenate 616(1993)167
- Romano, J., see Salomon, D. R. 602(1992)219
- Romano, J. P. and Krol, J.
Regulated methods for ion analysis 602(1992)205
- Romano, J. P. and Krol, J.
Capillary ion electrophoresis, an environmental method for the determination of anions in water 640(1993)403
- Romanyshyn, L. A., Wichmann, J. K., Kucharczyk, N. and Sofia, R. D.
Simultaneous determination of felbamate and four metabolites in rat cerebrospinal fluid by high-performance liquid chromatography 622(1993)223
- Romanyshyn, L. A., Wichmann, J. K., Kucharczyk, N. and Sofia, R. D.
Simultaneous determination of felbamate and three metabolites in rat and dog plasmas by high-performance liquid chromatography 622(1993)229
- Rombo, L., see Bergqvist, Y. 615(1993)297
- Rondelli, I., Mariotti, F., Acerbi, D., Redenti, E., Amari, G. and Ventura, P.
Selective method for plasma quantitation of the stereoisomers of a new aminotetralin by high-performance liquid chromatography with electrochemical detection 612(1993)95
- Rønn, A., see Lemnge, M. M. 613(1993)340
- Rony, C., see Desbène, P. L. 608(1992)375
- Rooyackers, D. R., see Van Eijk, H. M. H. 620(1993)143
- Rop, P. P., Grimaldi, F., Bresson, M., Fornaris, M. and Viala, A.
Simultaneous determination of dextromoramide, propoxyphene and norpropoxyphene in necropsic whole blood by liquid chromatography 615(1993)357
- Rop, P. P., Grimaldi, F., Oddoze, C. and Viala, A.
Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302
- Rosa, M., see Pacifici, R. 612(1993)209
- Rosa, M., see Zuccaro, P. 621(1993)257
- Rose, M., see Jacob, L. R. 625(1992)47
- Rosc, M. D. and Shearer, G.
Determination of tranquilisers and carazolol residues in animal tissue using high-performance liquid chromatography with electrochemical detection 624(1992)471
- Rosell, G., Camacho, A. and Parra, P.
Direct enantiomeric separation of *cis*-(±)diltiazem in plasma by high-performance liquid chromatography with ovomucoid column 619(1993)87
- Roselló-Catafau, J., see Bioque, G. 615(1993)191
- Roselló-Catafau, J., see Hotter, G. 607(1992)239
- Rosenberg, C., see Kontsas, H. 636(1993)255
- Rosenberg, I., see Cihlář, T. 644(1993)299
- Rosenberg, I. E., see Liu, J. 632(1993)45
- Rosenfeld, J., see McDonnell, T. 629(1993)41
- Rosenfeld, R. and Benedek, K.
Conformational changes of brain-derived neurotrophic factor during reversed-phase high-performance liquid chromatography 632(1993)29
- Rosenzweig, Z. and Yeung, E. S.
Laser-based double beam absorption detector for high-performance liquid chromatography 645(1993)201
- Rosing, H., see Beijnen, J. H. 617(1993)111
- Rosing, H., see Burger, D. M. 622(1993)235
- Rosing, H., see Van Gijn, R. 614(1993)299
- Rosing, H., see Wafelman, A. R. 622(1993)71
- Ross, G. A., see Grune, T. 636(1993)105
- Ross, G. A., Lorkin, P. and Perrett, D.
Separation and tryptic digest mapping of normal and variant haemoglobins by capillary electrophoresis 636(1993)69
- Ross, H. A., see Van Hoof, H. J. C. 621(1993)33
- Rossato, P., Scandola, M. and Grossi, P.
Investigation into lacidipine and related metabolites by high-performance liquid chromatography-mass spectrometry 647(1993)155
- Roszbach, M., see Nguyen, V. D. 643(1993)427
- Rosseel, M. T., Belpaire, F. M., Samijn, N. and Wijnant, P.
Simultaneous determination of N,N-dimethylformamide, N-monomethylformamide and N-hydroxymethyl-N-methylformamide in rat plasma by capillary gas chromatography 615(1993)154
- Rosseel, M. T., see Laethem, M. E. 621(1993)225
- Rosset, R., see Thiébaud, D. 626(1992)41
- Rossetti, D. V., see Castagnola, M. 638(1993)327
- Roth, M.
Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329
- Rouhouse, A., see Ascalone, V. 619(1993)275
- Rounds, S. A. and Pankow, J. F.
Determination of selected chlorinated benzenes in water by purging directly to a capillary column with whole column cryotrapping and electron-capture detection 629(1993)321
- Russel, G., see Cren, H. 615(1993)23
- Rowe, R. C., see Survay, M. A. 636(1993)81
- Rowe, R. C., see Wren, S. A. C. 603(1992)235
- Rowe, R. C., see Wren, S. A. C. 609(1992)363
- Rowe, R. C., see Wren, S. A. C. 635(1993)113
- Rowland, S. J., see Pretorius, W. G. 646(1993)369
- Roy, S. K., see Monkarsh, S. P. 631(1993)277
- Rozing, M. J. M., see Stäb, J. A. 609(1992)195
- Ruano, A., see García, C. 605(1992)251

- Ruban, V. F.
Determination of dopamine and its metabolites in microdialysates by capillary liquid chromatography with electrochemical detection 619(1993)111
- Rubí, E., Lorenzo, R. A., Casais, C., Carro, A. M. and Cela, R.
Evaluation of capillary columns used in the routine determination of methylmercury in biological and environmental materials 605(1992)69
- Rubiolo, P., see Bicchi, C. 609(1992)305
- Rüden, H., see Emmrich, M. 645(1993)89
- Rudnick, S. E., see Hilser, Jr., V. J. 630(1993)329
- Rudolph, M., see Holtzhauer, M. 605(1992)193
- Rugstad, H. E., see Andresen, A. T. 621(1993)189
- Ruiz-Gutiérrez, V., Prada, J. L. and Pérez-Jiménez, F.
Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117
- Rurak, D. W., see Doroudian, A. 619(1993)79
- Russlie, H., see Lovdahl, M. 617(1993)329
- Russoman, E. A., see Monkars, S. P. 631(1993)277
- Rustemeier, K., Demetriou, D., Schepers, G. and Voncken, P.
High-performance liquid chromatographic determination of nicotine and its urinary metabolites via their 1,3-diethyl-2-thiobarbituric acid derivatives 613(1993)95
- Rutledge, D. R., Abadi, A. H., Lopez, L. M. and Beaudreau, C. A.
High-performance liquid chromatographic determination of diltiazem and two of its metabolites in plasma using a short alkyl chain silanol deactivated column 615(1993)111
- Ryan, E., see Gamache, P. 614(1993)213
- Ryan, E., see Gamache, P. 635(1993)143
- Ryan, J. F., see Grosser, Z. A. 642(1993)75
- Rydén, L., see Brena, B. M. 604(1992)109
- Ryder, D. S.
Determination of sodium vinyl sulphonate in water-soluble polymers using capillary zone electrophoresis 605(1992)143
- Saari-Nordhaus, R., Anderson, Jr., J. M. and Ravichandran, K.
Applications of an alternative stationary phase for the separation of anions by chemically suppressed ion chromatography 602(1992)15
- Saari-Nordhaus, R., see Henderson, I. K. 602(1992)149
- Saari-Nordhaus, R., Nair, L. and Anderson, Jr., J. M.
Dual-column techniques for the simultaneous analysis of anions and cations 602(1992)127
- Saari-Nordhaus, R., see Nair, L. M. 640(1993)41
- Saari-Nordhaus, R., see Vinš, I. 640(1993)49
- Saarinén, M., see Sirén, H. 632(1993)215
- Sabbagh, L., see Pasquier, M.-C. 614(1993)27
- Sabljić, A., see Sekušak, S. 628(1993)69
- Sacchero, G., see Hajos, P. 640(1993)15
- Sacchero, G., see Sarzanini, C. 626(1992)151
- Sacchero, G., see Sarzanini, C. 640(1993)127
- Sacchero, G., see Sarzanini, C. 640(1993)179
- Sachse, J.
Identification and determination of mellein in cultures of the fungus *Septoria nodorum* (Berk.) by thin-layer and high-performance liquid chromatography 609(1992)349
- Sádecká, J., see Buzinkaiová, T. 638(1993)231
- Sadoun, F., Virelizier, H. and Arpino, P. J.
Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351
- Saegusa, K., see Suzuki, E. 617(1993)221
- Saeki, R., Inaba, H., Suzuki, T. and Miyazawa, T.
Chemiluminescent detection of thymine hydroperoxides by high-performance liquid chromatography 606(1992)187
- Sagar, A. D., Sofia, S. J. and Merrill, E. W.
Estimation of inter-detector lag in multi-detection gel permeation chromatography 635(1993)132
- Saha, J., see Saha, M. 641(1993)400
- Saha, M. and Giese, R. W.
High-performance liquid chromatography versus solid-phase extraction for post-derivatization cleanup prior to gas chromatography-electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35
- Saha, M. and Giese, R. W.
Primary contribution of the injector to carryover of a trace analyte in high-performance liquid chromatography 631(1993)161
- Saha, M., Saha, J. and Giese, R. W.
4-(Trifluoromethyl)-2,3,5,6-tetrafluorobenzyl bromide as a new electrophoric derivatizing reagent 641(1993)400
- Saini, G., see Baiocchi, C. 644(1993)259
- Sairam, M. R. and Jiang, L. G.
Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171
- Saito, Y. and Chikuma, M.
Chromatographic analysis of the reaction between thiosalicylic acid and selenious acid in methanol 635(1993)71
- Saito, Y., see Jinno, K. 648(1993)71
- Saito, Y., see Takagi, K. 628(1993)122
- Saitoh, K., Kashiwa, R., Tada, R., Kiyohara, C. and Suzuki, N.
High-performance thin-layer chromatographic mobility of porphyrins and their copper complexes on different adsorbents 609(1992)341

S

- Saitoh, K., see Kiyohara, C. 646(1993)397
- Saitoh, K., Kiyohara, C. and Suzuki, N.
Formation of zinc complexes during chromatography of porphyrins on fluorescent thin-layer plates 603(1992)231
- Saitoh, K., see Tsukahara, S. 634(1993)138
- Sakaki, K.
Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451
- Sakaki, K., see Shinbo, T. 625(1992)101
- Sakakura, H., Suzuki, M., Kimura, N., Takeda, H., Nagata, S. and Maeda, M.
Simultaneous determination of bile acids in rat bile and serum by high-performance liquid chromatography 621(1993)123
- Saletti, R., see Compagnini, A. 639(1993)341
- Salomon, D. R. and Romano, J.
Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219
- Salonen, J. T., see Nyssönen, K. 612(1993)27
- Samejima, K., see Niitsu, M. 641(1993)115
- Samijn, N., see Rosseel, M. T. 615(1993)154
- Samperi, R., see Di Corcia, A. 642(1993)163
- Samperi, R., see Di Corcia, A. 642(1993)175
- Samperi, R., see Marcomini, A. 644(1993)59
- Sánchez, G., see Calull, M. 607(1992)339
- Sanchez, J., see Pastor, M. D. 629(1993)329
- Sánchez-Baeza, F. J., see Marco, M.-P. 641(1993)81
- Sánchez-Camazano, M. and Sánchez-Martín, M. J.
Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357
- Sánchez-Martín, M. J., see Sánchez-Camazano, M. 643(1993)357
- Sánchez-Rasero, F., see De la Colina, C. 607(1992)203
- Sánchez Muñoz, G., García Romero, E., Pérez Coello, M. S. and Martín Alvarez, P. J.
Determination of glycerol in wines by high-performance liquid chromatography: comparison with enzymatic method 623(1992)43
- Sánchez Pérez, A., see Delgado Zamarreño, M. M. 623(1992)69
- Sánchez Rodríguez, M., see González-Esquivel, D. F. 613(1993)174
- Sanchis-Mallois, J. M., see Torres-Lapasíó, J. R. 639(1993)87
- Sandberg, M., see Weber, S. G. 638(1993)1
- Sander, L. C., see Wise, S. A. 642(1993)329
- Sandmann, G., see Fraser, P. D. 645(1993)265
- Sandoval, J. E., see Pesek, J. J. 630(1993)95
- Sandra, P., see Coene, J. 612(1993)21
- Sandra, P., see Korman, M. 645(1993)366
- Sanfilippo, P. J., see Shaw, C. J. 631(1993)173
- San Martín, T., see Wilson, T. D. 641(1993)241
- Sano, A., Ohashi, M., Kodama, M. and Takitani, S.
High-performance liquid chromatographic determination of N-nitroso-N-alkylureas by pre-column fluorescence derivatization and application to blood analysis 621(1993)157
- Sano, M., see Kawasaki, S. 620(1993)61
- Santa-Maria, G., see Hierro, M. T. G. 607(1992)329
- Santilio, A., see Di Muccio, A. 643(1993)363
- Santiuste, J. M., see García Domínguez, J. A. 627(1992)203
- Santos, F. J., see Galceran, M. T. 643(1993)399
- Santos-Montes, A., Gasco-Lopez, A. I. and Izquierdo-Hornillos, R.
Optimization of the high-performance liquid chromatographic separation of a mixture of natural and synthetic corticosteroids 620(1993)15
- Sanz, J., see García-Raso, A. 607(1992)221
- Sapone, A., see Biagi, G. L. 625(1992)392
- Sappa, E., see Careri, M. 634(1993)143
- Sappa, E., see Careri, M. 647(1993)79
- Saracchi, M., see Bello, M. S. 625(1992)323
- Sarafraz-Yazdi, A., see Khuhawar, M. Y. 636(1993)271
- Sarasa Alonso, J., see Ormad Meleró, M. P. 607(1992)311
- Saraswati, R. and Rao, T. H.
Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)resorcinol and Arsenazo-III 605(1992)63
- Sarg, B., see Lindner, H. 608(1992)211
- Sargent, J. R., see Wilson, R. 623(1992)403
- Sarin, R., see Dua, V. K. 614(1993)87
- Sarwar, G. and Botting, H. G.
Evaluation of liquid chromatographic analysis of nutritionally important amino acids in food and physiological samples 615(1993)1
- Sarzanini, C., see Hajos, P. 640(1993)15
- Sarzanini, C., Mentasti, E., Vincenti, M., Nerva, M. and Gaido, F.
Determination of plasma tocopherols by high-performance liquid chromatography with coulometric detection 620(1993)268
- Sarzanini, C., Sacchero, G., Aceto, M., Abollino, O. and Mentasti, E.
Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151
- Sarzanini, C., Sacchero, G., Aceto, M., Abollino, O. and Mentasti, E.
Ion-pair reversed-phase high-performance liquid chromatography for trace metal preconcentration followed by ion-interaction chromatography 640(1993)127
- Sarzanini, C., Sacchero, G., Aceto, M., Abollino, O. and Mentasti, E.
Ion-interaction chromatographic studies on metal ions complexed with Plasmocorinth B dye 640(1993)179
- Sato, H., see Yokoyama, Y. 643(1993)169
- Sato, K., Watabe, K., Ihara, T. and Hobo, T.
Improvement of continuous counter-current gas-liquid chromatography for practical use 629(1993)291
- Sato, S., see Tomita, M. 621(1993)249
- Sato, T., see Mano, N. 603(1992)105
- Sato, T., see Mano, N. 623(1992)221
- Sato, S., see Takagi, K. 628(1993)122
- Satomura, Y., Kimura, M. and Itokawa, Y.
Simultaneous determination of retinol and tocopherols by high-performance liquid chromatography 625(1992)372
- Satyanarayana Reddy, G., see Yeung, B. 645(1993)115
- Saulnier, F., see Schmitt, M. 640(1993)419
- Sawa, T., see Baba, Y. 632(1993)137

- Sawa, T., see Yashima, E. 603(1992)111
- Sawada, J., see Morita, I. 641(1993)375
- Sawatzki, G., see Georgi, G. 613(1993)35
- Scandola, M., see Rossato, P. 647(1993)155
- Scappaticci, E., see Silvestro, L. 647(1993)261
- Schad, H., see Schäfer, F. 620(1993)239
- Schaefer, H. G.
Determination of BAY y 3118, a novel 4-quinolone, in biological fluids using high-performance liquid chromatography and photothermal post-column derivatization 616(1993)87
- Schäfer, F., Schad, H. and Weber, L.
Determination of phenylmercapturic acid in urine of benzene-exposed BDF-1 mice 620(1993)239
- Schäfer, M., see Cabrera, K. 644(1993)396
- Schalekamp, M. A. D. H., see Boomsma, F. 621(1993)82
- Schapöhler, S., see Bornscheuer, U. 606(1992)288
- Schaumann, C., Oesch, F., Unger, K. K. and Wieser, R. J.
Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227
- Scheepers, P. T. J., Velders, D. D., Straetemans, M. M. E., Ouwerkerk, J. C., Van Vliet, L. A. and Bos, R. P.
Solid-phase extraction and gas chromatographic-mass spectrometric determination after hydrolysis of 2-aminofluorene haemoglobin adducts in blood of rats 619(1993)215
- Schellens, J. H. M., Loos, W., Beijnen, J. H., Stoter, G. and Verweij, J.
Sensitive isocratic high-performance liquid chromatographic determination of a novel indoloquinone cytotoxic drug (EO9) in human plasma and urine 615(1993)309
- Schenkel, E., Duez, P. and Hanocq, M.
Stereoselective determination of cucurbitine in *Cucurbita* spp. seeds by gas chromatography and gas chromatography-mass spectrometry 625(1992)289
- Scheper, T., see Bornscheuer, U. 606(1992)288
- Schepers, G., see Rustemeier, K. 613(1993)95
- Scher, A. L., see Weisz, A. 607(1992)47
- Scherberich, J. E., see Herzig, C. M. 625(1992)73
- Scherpenisse, P., see Haagsma, N. 615(1993)289
- Schewes, R., Maidl, F. X., Fischbeck, G., Lepschy von Gleissenthall, J. and Süss, A.
Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89
- Schiavo, M. R., see Taibi, G. 614(1993)153
- Schiller, K., see Seidel, V. 635(1993)227
- Schinelli, S., see Paolillo, M. 613(1993)231
- Schleimer, M. and Schurig, V.
Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85
- Schlepper, M., see Hussein, H. 620(1993)164
- Schleyer, E., Lohmann, R., Rolf, C., Gralow, A., Kaufmann, C. C., Unterhalt, M. and Hiddemann, W.
Column-switching solid-phase trace-enrichment high-performance liquid chromatographic method for measurement of buprenorphine and norbuprenorphine in human plasma and urine by electrochemical detection 614(1993)275
- Schlüter, H., Krivoy, N., Hürster, A., Ingendoh, A., Karas, M. and Zidek, W.
Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3
- Schlüter, H. and Zidek, W.
Application of non-size-related separation effects to the purification of biologically active substances with a size-exclusion gel 639(1993)17
- Schlüter, J., see Hampe, T. R. E. 634(1993)205
- Schmidt, H., see Grune, T. 636(1993)105
- Schmidt, K. H., see Bruchelt, G. 618(1993)57
- Schmidt, K.-H., see Gebhardt, S. 638(1993)235
- Schmidt, L. and Fritz, J. S.
Ion-exchange preconcentration and group separation of ionic and neutral organic compounds 640(1993)145
- Schmidt, L., Sun, J. J., Fritz, J. S., Hagen, D. F., Markell, C. G. and Wisted, E. E.
Solid-phase extraction of phenols using membranes loaded with modified polymeric resins 641(1993)57
- Schmidt, T. J., Merfort, I. and Matthiesen, U.
Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic-mass spectrometric data 634(1993)350
- Schmidt Jr., D. E., see Wheatley, J. B. 644(1993)111
- Schmitt, M., Saulnier, F., Malhautier, L. and Linden, G.
Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419
- Schmitz, G., Lepper, H. and Estler, C.-J.
High-performance liquid chromatographic method for the routine determination of diclofenac and its hydroxy and methoxy metabolites from *in vitro* systems 620(1993)158
- Schmitz-Kummer, E., see De Vries, J. X. 644(1993)315
- Schneider, M. P., see Lobell, M. 633(1993)287
- Schneiderka, P., Pacáková, V., Štulík, K., Kloudová, M. and Jelínková, K.
High-performance liquid chromatographic determination of creatinine in serum, and a correlation of the results with those of the Jaffé and enzymic methods 614(1993)221
- Schoene, K., Steinhanses, J., Bruckert, H.-J. and König, A.
Speciation of arsenic-containing chemical warfare agents by gas chromatographic analysis after derivatization with thioglycolic acid methyl ester 605(1992)257
- Schoeppe, W., see Herzig, C. M. 625(1992)73
- Schofield, P., see Andrew, M. 640(1993)111
- Schols, H. A., see Niessen, W. M. A. 647(1993)319
- Schols, H. A., see Tinke, A. P. 647(1993)279
- Schols, H. A., see Van der Hoeven, R. A. M. 627(1992)63
- Scholtes, M. M., see Sessink, P. J. M. 616(1993)333
- Scholtis, L. H. A., see Dankers, J. 641(1993)357
- Schoot, B., see Legrand, R. 647(1993)3

- Schramm, T. M., McKinnon, G. E. and Eadie, M. J.
Gas chromatographic assay of vigabatrin enantiomers in plasma 616(1993)39
- Schröder, H. F.
Pollutants in drinking water and waste water 643(1993)145
- Schröder, H. F.
Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis-mass spectrometry and tandem mass spectrometry 647(1993)219
- Schuchard, M. D., see Landers, J. P. 603(1992)247
- Schügerl, K., see Bornscheuer, U. 606(1992)288
- Schultz-Bull, D. E., see Kannan, N. 642(1993)425
- Schulz, P., see Vorauer, K. 625(1992)33
- Schumann, H. and Ernst, M.
Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241
- Schumann, U., see Kraus, A. 609(1992)277
- Schurig, V., see Jung, M. 605(1992)161
- Schurig, V., see Schleimer, M. 638(1993)85
- Schützner, W., Fanali, S., Rizzi, A. and Kenndler, E.
Separation of diastereomeric derivatives of enantiomers by capillary zone electrophoresis with a polymer network: use of polyvinylpyrrolidone as buffer additive 639(1993)375
- Schwartz, S. J., see O'Neil, C. A. 624(1992)235
- Schwartz, V.
Comparison of the determination of anions in dissolved organic carbon-loaded water samples by ion chromatography and photometric methods 640(1993)299
- Schwarz, T., see Kaufmann, M. 639(1993)33
- Schwarzenbach, R. and Gubler, D.
Detection of heterocyclic aromatic amines in food flavours 624(1992)491
- Schwer, C. and Lottspeich, F.
Analytical and micropreparative separation of peptides by capillary zone electrophoresis using discontinuous buffer systems 623(1992)345
- Schwillens, P. L. W. J., see Van Ginkel, L. A. 624(1992)389
- Schwinger, G., see Ogorka, J. 626(1992)87
- Schwinn, H., see Josić, D. 632(1993)1
- Scislowski, P. W. D., Harris, I., Pickard, K., Brown, D. S. and Buchan, V.
Determination of L-methionine-*dl*-sulphoxide in tissue extracts 619(1993)299
- Scott, J., see McNulty, H. 614(1993)59
- Scott, P. G., see Tredget, E. E. 612(1993)7
- Scouten, W. H., see Adamek, V. 625(1992)91
- Scully, H. S., Brumback, L. C. and Kelly, R. G.
Chromatographic studies of corrosion sites in metallic materials 640(1993)345
- Seah, S. K. L., see Li, W. Y. 619(1993)148
- Seaton, M. J., Vesell, E. S., Luo, H. and Hawes, E. M.
Identification of radiolabeled metabolites of nicotine in rat bile. Synthesis of *S*-(-)-nicotine N-glucuronide and direct separation of nicotine-derived conjugates using high-performance liquid chromatography 621(1993)49
- Seay, S. S., Aucoin, D. P. and Tyczkowska, K. L.
Rapid high-performance liquid chromatographic method for the determination of ketamine and its metabolite dehydronorketamine in equine serum 620(1993)281
- Sedlář, J., see Matuška, R. 606(1992)136
- Segura, J., see Ventura, R. 647(1993)203
- Seidah, N. G., see Basak, A. 615(1993)251
- Seidel, V., see Ogorka, J. 626(1992)87
- Seidel, V., Poglits, E., Schiller, K. and Lindner, W.
Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227
- Seidel, V., Tschernuter-Meixner, I. and Lindner, W.
Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253
- Seidel-Morgenstern, A. and Guiochon, G.
Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37
- Seidel-Morgenstern, A., see Jacobson, S. C. 637(1993)13
- Seidel-Morgenstern, A., Jacobson, S. C. and Guiochon, G.
Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19
- Seifart, H. I., Kruger, P. B., Parkin, D. P., Van Jaarsveld, P. P. and Donald, P. R.
Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285
- Seifert, J.
Assay of tryptophan 2,3-dioxygenase using liver slices and high-performance liquid chromatography 614(1993)227
- Seki, M., see Yoshioka, M. 603(1992)223
- Seki, S., Akiyama, K., Watanabe, S. and Tsutsui, K.
Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147
- Sekušak, S. and Sabljčić, A.
Calculation of retention indices by molecular topology. III. Chlorinated dibenzodioxins 628(1993)69
- Self, R., see Beattie, J. H. 632(1993)127
- Seligmann, O., see Antus, S. 603(1992)133
- Selisko, B., Delgado, C., Fisher, I. and Ehwald, R.
Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71
- Sellberg, B., see Castledine, J. B. 626(1992)127
- Sellergren, B. and Shea, K. J.
Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31
- Semenova, O. P., see Timerbaev, A. R. 630(1993)379
- Semenova, O. P., see Timerbaev, A. R. 648(1993)307
- Seno, N., see Ogawa, H. K. 612(1993)145

AUTHOR INDEX

- Señoráns, F. J., Tabera, J., Villén, J., Herraiz, M. and Reglero, G.
Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407
- Sentell, K. B., see Bliesner, D. M. 631(1993)23
- Seo, J., see Belfield, K. D. 648(1993)497
- Sepaniak, M. J., see Guiochon, G. 606(1992)248
- Seppänen, K., see Nyysönen, K. 612(1993)27
- Seppel, C. K., see Hoffmann, G. F. 617(1993)1
- Sereda, T. J., Mant, C. T., Quinn, A. M. and Hodges, R. S.
Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography.
Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17
- Serenius, K., see Hawthorne, S. B. 634(1993)297
- Serrano, J., Kuehl, D. W. and Naumann, S.
Analytical procedures and quality assurance criteria for the determination of major and minor deoxynucleosides in fish tissue DNA by liquid chromatography-ultraviolet spectroscopy and liquid chromatography-thermospray mass spectrometry 615(1993)203
- Sessink, P. J. M., Scholtes, M. M., Anzion, R. B. M. and Bos, R. P.
Determination of cyclophosphamide in urine by gas chromatography-mass spectrometry 616(1993)333
- Šetlik, I., see Ritter, S. 625(1992)21
- Šetlikova, E., see Ritter, S. 625(1992)21
- Seto, Y. and Guengerich, F. P.
Liquid chromatographic determination of *para*-substituted N,N-dialkylaniline N-oxides 619(1993)71
- Seubert, A., see Klingenberg, A. 640(1993)167
- Sevillano-Cabeza, A., see Campíns-Falcó, P. 612(1993)245
- Sevillano-Cabeza, A., see Campíns-Falcó, P. 619(1993)177
- Seyama, C., see Haginaka, J. 631(1993)183
- Seymour, R. A., see Ellis, J. S. 621(1993)95
- Shackleton, C. H. L., see Bitsch, F. 615(1993)273
- Shah, B. and Watson, E.
Determination of N-hydroxysuccinimidyl-activated polyethylene glycol esters by gel permeation chromatography with post-column alkaline hydrolysis 629(1993)398
- Shah, Y. N., see Chaudhary, R. S. 614(1993)261
- Shahwan, A. M., see Rimerman, R. A. 619(1993)29
- Shaikh, B. and Moats, W. A.
Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369
- Shanahan, P., Borro, A., O'Gara, F. and Glennon, J. D.
Isolation, trace enrichment and liquid chromatographic analysis of diacetylphloroglucinol in culture and soil samples using UV and amperometric detection 606(1992)171
- Shansky, R. E.
Letter to the Editor 605(1992)148
- Shantha, N. C.
Thin-layer chromatography-flame ionization detection Iatrosan system (Review) 624(1992)21
- Shantha, N. C. and Napolitano, G. E.
Gas chromatography of fatty acids (Review) 624(1992)37
- Sharma, S. D. and Misra, S.
Effect of solvent composition and pH on R_f values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121
- Sharman, M., MacDonald, S. and Gilbert, J.
Automated liquid chromatographic determination of ochratoxin A in cereals and animal products using immunoaffinity column clean-up 603(1992)285
- Shatz, V. D., see Kažoka, H. A. 626(1992)181
- Shaw, C. J., Sanfilippo, P. J., McNally, J. J., Park, S. A. and Press, J. B.
Analytical and preparative high-performance liquid chromatographic separation of thienopyran enantiomers 631(1993)173
- Shaw, J. G., see Wilson, J. B. 617(1993)37
- Shea, K. J., see Sellergren, B. 635(1993)31
- Shearer, G., see Rose, M. D. 624(1992)471
- Shearer, G., see Tarbin, J. A. 613(1993)347
- Shearer, G., see Tarbin, J. A. 613(1993)354
- Sheehan, T., see Lai, F. 609(1992)173
- Sheehan, T. L., see Excoffier, J.-L. 631(1993)15
- Shelford, J. A., see Puchala, R. 623(1992)63
- Shelly, D. C., see Abbas, A. A. 631(1993)133
- Shen, W., see Xue, H. 613(1993)247
- Shenfield, G. M., see Gross, A. S. 621(1993)115
- Sheng, Y., see Lou, X. 605(1992)103
- Shephard, G. S., Thiel, P. G., Marasas, W. F. O., Sydenham, E. W. and Vleggaar, R.
Isolation and determination of AAL phytotoxins from corn cultures of the fungus *Alternaria alternata* f. sp. *lycopersici* 641(1993)95
- Shepherd, M. J., see Chappell, C. G. 626(1992)223
- Sherma, J. and Rolfe, C.
Determination of diflubenzuron residues in water by solid-phase extraction and quantitative high-performance thin-layer chromatography 643(1993)337
- Sherwood, R. A., see Keating, J. 615(1993)237
- Sheu, S.-J., see Liu, Y.-M. 623(1992)196
- Sheu, S.-J., see Liu, Y.-M. 634(1993)329
- Sheu, S.-J., see Liu, Y.-M. 637(1993)219
- Sheu, S.-J., see Liu, Y.-M. 639(1993)323
- Shi, C. Y., see Lee, B. L. 619(1993)259
- Shi, Y. and Fritz, J. S.
Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473
- Shibata, O., see Terabe, S. 636(1993)47
- Shibusawa, Y., see Ito, Y. 625(1992)177
- Shibusawa, Y., see Weisz, A. 607(1992)47
- Shida, Y., see Parker, C. E. 616(1993)45
- Shiell, B. J., see Gorman, J. J. 646(1993)193
- Shiga, N. and Matano, O.
High-performance liquid chromatographic method for the determination of oxolinic acid residues in crops 643(1993)311
- Shih, C., see Muindi, J. R. F. 621(1993)55
- Shih, Y., see Cheng, F.-C. 615(1993)225
- Shih, Y., see Cheng, F.-C. 617(1993)227
- Shiiba, T., see Yashima, E. 603(1992)111
- Shijo, M., see Oi, S. 645(1993)17

- Shim, J.-H., Wilson, I. D. and Morgan, E. D.
Boronic esters as derivatives for supercritical fluid chromatography of ecdysteroids 639(1993)281
- Shim, W.-H., see Kim, K.-R. 641(1993)319
- Shimada, E. and Matsumura, G.
Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43
- Shimada, K.
Modern chromatographic analysis of vitamins (edited by A. P. de Leenheer, W. E. Lambert and N. J. Nelis) (Book Review) 633(1993)320
- Shimada, K. and Mizuguchi, T.
Sensitive and stable Cookson-type reagent for derivatization of conjugated dienes for high-performance liquid chromatography with fluorescence detection 606(1992)133
- Shimada, K., see Nakajima, M. 641(1993)176
- Shimizu, M., see Takagi, K. 628(1993)122
- Shimoda, M., see Shin, H.-C. 620(1993)39
- Shimokawa, M., see Kato, Y. 616(1993)67
- Shimoni, M., Reuveni, R. and Cais, M.
Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99
- Shimonishi, Y., see Zhang, R. 646(1993)45
- Shimoyama, R., see Ohkubo, T. 614(1993)328
- Shin, H.-C., Shimoda, M., Kokue, E. and Takahashi, Y.
Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39
- Shin, Y.-J., see Kim, K.-R. 641(1993)319
- Shinbo, T., Yamaguchi, T., Yanagishita, H., Kitamoto, D., Sakaki, K. and Sugiura, M.
Improved crown ether-based chiral stationary phase 625(1992)101
- Shinohara, Y., see Suwa, T. 617(1993)105
- Shinomiya, K., see Menet, J.-M. 644(1993)239
- Shinomiya, K., Menet, J.-M., Fales, H. M. and Ito, Y.
Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215
- Shiojima, Y., see Koyama, J. 625(1992)217
- Shiu, G. K., see Carlin, A. S. 614(1993)324
- Shizuri, Y., see Inoue, H. 645(1993)259
- Shotyk, W.
Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309
- Shotyk, W.
Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317
- Shulgin, A. T., see Jacob III, P. 619(1993)49
- Shultz, T. D., see Atkinson, D. A. 617(1993)173
- Shum, A. Y.-C., see Peng, Y.-T. 617(1993)87
- Siddiqui, M. A., see Di Marco, M. P. 645(1993)107
- Sidhu, J. S. and Charles, B. G.
Simple microscale high-performance liquid chromatographic method for determination of furosemide in neonatal plasma 612(1993)161
- Siebert, C., see Zhu, M. 608(1992)225
- Siemens, K. and Zawistowski, J.
Determination of *Penicillium roqueforti* toxin by reversed-phase high-performance liquid chromatography 609(1992)205
- Siems, W., see Grune, T. 636(1993)105
- Siems, W. G., see Grune, T. 618(1993)15
- Sierra, M., see Fernández, N. 619(1993)143
- Sies, H., see Sundquist, A. R. 637(1993)201
- Siewierski, M., see Katz, S. E. 624(1992)403
- Signorella, L. L., see Davis, W. M. 643(1993)341
- Silbert, L. S., see Foglia, T. A. 637(1993)157
- Silvestro, L., see Da Col, R. 633(1993)119
- Silvestro, L., see Da Col, R. 647(1993)289
- Silvestro, L., Da Col, R., Scappatici, E., Libertucci, D., Biancone, L. and Camussi, G.
Development of a high-performance liquid chromatographic-mass spectrometric technique, with an ionspray interface, for the determination of platelet-activating factor (PAF) and lyso-PAF in biological samples 647(1993)261
- Šimek, Z. and Vespalec, R.
Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153
- Šimko, P., see Karovičová, J. 638(1993)241
- Simmonds, P. G., see Foulger, B. E. 630(1993)257
- Simmonds, P. G., see O'Doherty, S. J. 630(1993)265
- Simmonds, P. G., see Sturrock, G. A. 648(1993)423
- Simmons, J. E., see Carlin, A. S. 614(1993)324
- Simms, P. J., Haines, R. M. and Hicks, K. B.
High-performance liquid chromatography of neutral oligosaccharides on a β -cyclodextrin bonded phase column 648(1993)131
- Simon, P. and Nicot, T.
Automated column-switching high-performance liquid chromatography for the determination of 2-thiothiazolidine-4-carboxylic acid in urine 620(1993)47
- Simon, V. A., Pearson, K. S. and Taylor, A.
Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317
- Simon, W., see Nann, A. 633(1993)207
- Simons, R. G., see Haddad, P. R. 640(1993)135
- Simonson, P. G. and Pietrzyk, D. J.
Separation of acetylated amino acids 640(1993)379
- Simonyi, M., see Fitos, I. 609(1992)163
- Simonzadeh, N.
Ion chromatographic method for the simultaneous determination of trifluoromethanesulfonic acid and trifluoroacetic acid 634(1993)125
- Simpson, D. G., see Bietz, J. A. 624(1992)53
- Simpson, M. S. C., see Bishop, S. M. 646(1993)345

- Simpson, R. C., Boppana, V. K., Hwang, B. Y.-H. and Rhodes, G. R.
Determination of oxiracetam in human plasma by reversed-phase high-performance liquid chromatography with fluorimetric detection 631(1993)227
- Simpson, R. J., see Fabri, L. 646(1993)213
- Sims, A., see Morawski, J. 640(1993)359
- Šimuničová, E., see Kaniansky, D. 638(1993)137
- Singer, E., see Lai, J. Y. K. 643(1993)77
- Singh, M. M., see Tsai, E. W. 626(1992)245
- Singh, R. K. P., see Yadav, A. 606(1992)147
- Singh, R. P. and Chiba, M.
Determination of benomyl and its degradation products by chromatographic methods in water, wettable powder formulations, and crops (Review) 643(1993)249
- Singh, S. B. and Kulshrestha, G.
Gas chromatographic method for the determination of anilophos in soil 637(1993)109
- Singhal, R. P., Hughbanks, D. and Xian, J.
Separation of dideoxyribonucleosides in trace amounts by automated liquid chromatography and capillary electrophoresis 609(1992)147
- Sinibaldi, M., see Castellani, L. 602(1992)21
- Sinkkonen, S.
Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47
- Sinkkonen, S., Kolehmainen, E., Koistinen, J. and Lahtiperä, M.
High-resolution gas chromatographic-mass spectrometric determination of neutral chlorinated aromatic sulphur compounds in stack gas samples 641(1993)309
- Sinniger, V., Tapon-Bretaudière, J., Millien, C., Muller, D., Jozefonvicz, J. and Fischer, A. M.
Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A-Sepharose 615(1993)215
- Sinninghe Damsté, J. S., De las Heras, F. X. C. and De Leeuw, J. W.
Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361
- Sinninghe Damsté, J. S., see Hartgers, W. A. 606(1992)211
- Šipoš, J. and Ninčáková, A.
Determination of stabilizers in human serum albumin preparations 638(1993)108
- Sirakova, I., see Apostolova, M. 620(1993)191
- Sirén, H., see Lukkari, P. 608(1992)317
- Sirén, H., see Lukkari, P. 632(1993)143
- Sirén, H., Saarinen, M., Hainari, S., Lukkari, P. and Riekkola, M.-L.
Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215
- Siriraks, A., see Harrold, M. P. 602(1992)119
- Siriraks, A., Pohl, C. A. and Toofan, M.
Determination of trace anions in concentrated acids by means of a moderate-capacity anion-exchange column 602(1992)89
- Siriraks, A. and Stillian, J.
Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151
- Siriraks, A., Stillian, J. and Bostic, D.
Improved method for the determination of manganese in nuclear power plant waters 640(1993)371
- Sismelich, T. P., see Landers, J. P. 603(1992)247
- Sitaram, B. R., see Borg, P. J. 621(1993)165
- Sjöqvist, F., see Aden Abdi, Y. 612(1993)336
- Sjövall, J., see Norén, K. 642(1993)243
- Skafidis, S., see McIntyre, I. M. 621(1993)215
- Skarping, G., see Dalene, M. 626(1992)284
- Skias, M., see Vorauer, K. 625(1992)33
- Skoda, J., see Deyl, Z. 618(1993)1
- Škrabáková, S., see Matisová, E. 629(1993)309
- Šlais, K., Horká, M. and Klepárník, K.
Solute retention in open-tubular liquid chromatography with flowing retentive liquid 605(1992)167
- Slater, G. P., see Karoutis, A. I. 623(1992)186
- Slater, G. P. and Manville, J. F.
Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433
- Slattum, P., see Hanson, G. D. 622(1993)61
- Slégel, P., see Valkó, K. 631(1993)49
- Sliwkowski, M. B., see Cacia, J. 634(1993)229
- Slobodnik, J., Groenewegen, M. G. M., Brouwer, E. R., Lingeman, H. and Brinkman, U. A. T.
Fully automated multi-residue method for trace level monitoring of polar pesticides by liquid chromatography 642(1993)359
- Sly, L. A., Reynolds, D. L. and Walker, T. A.
Isomeric separation of Beraprost sodium using an α_1 -acid glycoprotein column 641(1993)249
- Smilde, A. K., see Steijger, O. M. 615(1993)97
- Smiley, J. W., see Doig, M. T. 613(1993)145
- Smit, H. C. and Kaljurand, M.
Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53
- Smit, H. C., see Louwse, D. J. 639(1993)207
- Smith, F. G., see Gjerde, D. T. 640(1993)73
- Smith, H. T., see Kalafsky, G. 614(1993)307
- Smith, K. D., see Davies, M. 609(1992)125
- Smith, K. D., see Davies, M. J. 646(1993)317
- Smith, N. W., see Altria, K. D. 645(1993)193
- Smith, P. C., see Castillo, M. 614(1993)109
- Smith, R. G., see Lamb, J. D. 640(1993)33
- Smith, R. J., see Evans, J. M. 623(1992)163
- Smith, R. M. and Burford, M. D.
Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255
- Smith, S. C. and Khaledi, M. G.
Prediction of the migration behavior of organic acids in micellar electrokinetic chromatography 632(1993)177

- Smith, T. J., Wearne, R. H. and Wallis, A. F. A.
Determination of chlorinated benzaldehydes and acetophenones in pulp bleaching effluents by gas chromatography 648(1993)289
- Smith, T. K., see Tucker, H. L. 640(1993)355
- Smits, R.
Preface 626(1992)1
- Smitt, U.W., see Jäger, A.K. 634(1993)135
- Smolková-Keulemansová, E.
Gas chromatographic separation with modified cyclodextrins (by W. A. König) (Book Review) 623(1992)408
- Smolková-Keulemansová, E., see Dubrovčáková, E. 623(1992)337
- Smolková-Keulemansová, E., see Mňuk, P. 623(1992)297
- Smolková-Keulemansová, E., see Snopek, J. 609(1992)1
- Smyth, J. F., see Cummings, J. 612(1993)105
- Smyth, J. F., see Cummings, J. 618(1993)251
- Smyth, M., see Dunne, C. 629(1993)229
- Smyth, M. R., see O'Shea, T. J. 608(1992)189
- Sneyd, J. R., see Stetson, P. L. 620(1993)260
- Sneyers, R., see De Kock, J. 606(1992)141
- Snodgrass, J. T., Hayward, M. J. and Thomson, M. L.
Time- and cost-saving approach for liquid chromatography-mass spectrometry vacuum systems 641(1993)396
- Snoeijer, G. J., see Coenegracht, P. M. J. 631(1993)145
- Snopek, J., Jelínek, I. and Smolková-Keulemansová, E.
Chiral separation by analytical electromigration methods (Review) 609(1992)1
- Soane, D. S., see Grossman, P. D. 608(1992)79
- Soares, O., see Chaleut, J.-F. 613(1993)303
- Soczewiński, E., see Markowski, W. 623(1992)139
- Søeberg, H., see Pedersen, J. 645(1993)353
- Søeberg, H., see Vinther, A. 608(1992)205
- Sofia, R. D., see Jacala, A. 614(1993)285
- Sofia, R. D., see Romanyshyn, L. A. 622(1993)223
- Sofia, R. D., see Romanyshyn, L. A. 622(1993)229
- Sofia, S. J., see Sagar, A. D. 635(1993)132
- Soga, T. and Inoue, Y.
Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175
- Soga, T., Inoue, Y. and Yamaguchi, K.
Determination of carbohydrates by hydrophilic interaction chromatography with pulsed amperometric detection using postcolumn pH adjustment 625(1992)151
- Sohda, T., see Yoshimura, Y. 613(1993)43
- Soini, H., Riekkola, M.-L. and Novotny, M. V.
Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265
- Soják, L., Ostrovský, I., Kubinec, R., Kraus, G. and Kraus, A.
Separation and identification of all isomeric *n*-nonadecenes by capillary gas chromatography on a mesogenic stationary phase with Fourier transform infrared and mass spectrometric detection 609(1992)283
- Sokolov, M. Y., see Řezanka, T. 636(1993)249
- Soler Roca, R. M., García March, F. J., Antón Fos, G. M., García Doménech, R., Pérez Giménez, F. and Gálvez Alvarez, J.
Molecular topology and chromatographic retention parameters for benzodiazepines 607(1992)91
- Sollinger, S., see Emmrich, M. 645(1993)89
- Sollinger, S., Levsen, K. and Emmrich, M.
Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography-mass spectrometry 609(1992)297
- Sonntag, C., see Dross, K. 639(1993)287
- Sontag, G., see Joerg, E. 635(1993)137
- Soomro, A. I., see Khuhawar, M. Y. 639(1993)371
- Sørensen, H., see Bjerregaard, C. 608(1992)403
- Sørensen, H., see Michaelsen, S. 608(1992)363
- Sorimachi, K., see Ikeda, M. 621(1993)133
- Sotelo Morales, J., see González-Esquivel, D. F. 613(1993)174
- Souche, A., see Reymond, P. 616(1993)221
- Soucheleau, J. and Denoroy, L.
Determination of vasoactive intestinal peptide in rat brain by high-performance capillary electrophoresis 608(1992)181
- Soudijn, W., see Mathôt, R. A. A. 620(1993)113
- Souhami, R. L., see Hartley, J. A. 618(1993)277
- Soupe, J., see Beaudouin, C. 613(1993)51
- Souza de Rezende, N., see Careri, M. 634(1993)143
- Sparacino, C. M., see Raymer, J. H. 619(1993)223
- Sparapani, R., see Ciccioli, P. 643(1993)55
- Speisky, H., Cassels, B. K., Nieto, S., Valenzuela, A. and Nuñez-Vergara, L. J.
Determination of boldine in plasma by high-performance liquid chromatography 612(1993)315
- Spelsberg, T. C., see Landers, J. P. 603(1992)247
- Spencer, G. G., Beach, A. C. and Gupta, R. C.
Improved thin-layer chromatographic separation of ³²P-postlabeled DNA adducts 612(1993)295
- Spink, D. C., see Zhu, M. 628(1993)37
- Spitzer, T.
Selective clean-up for polynuclear aromatic compounds in airborne particles and soil 643(1993)43
- Spitzer, T. and Kuwatsuka, S.
Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305
- Sportsman, J. R., see Riggan, A. 632(1993)37
- Spraul, M., see Wilson, I. D. 617(1993)324
- Spruit, W. E. T., see Leenheers, L. H. 613(1993)89
- Spyres, G.
Determination of 3-chloropropane-1,2-diol in hydrolyzed vegetable proteins by capillary gas chromatography with electrolytic conductivity detection 638(1993)71
- Srichaiyo, T. and Hjertén, S.
Simple multi-point detection method for high-performance capillary electrophoresis 604(1992)85
- Srijaranai, S., see Glennon, J. D. 626(1992)277
- Srivastava, S. K., Gupta, V. K., Tiwari, B. B. and Ali, I.
Electrophoretic determination of stability constants of Zn(II)- and Cd(II)-nitritoltriacetate-penicillamine mixed complexes 635(1993)171

- Srivatsan, V., see Chen, X. M. 612(1993)199
- St. Louis, R. H.
Element specific chromatographic detection by atomic emission spectroscopy (edited by P. C. Uden) (Book Review) 623(1992)202
- Stäb, J. A., Rozing, M. J. M., Van Hattum, B., Cofino, W. P. and Brinkman, U. A. T.
Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195
- Staby, A., Borch-Jensen, C., Møllerup, J. and Jensen, B.
Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221
- Stadtler, J., see Dernick, R. 625(1992)1
- Staerk, D.U., see Rawjee, Y.Y. 635(1993)291
- Stagni, N., see Romanello, M. 616(1993)167
- Stahl, W., see Sundquist, A. R. 637(1993)201
- Stämpfli, A. A., Ballèvre, O. and Fay, L. B.
Determination of taurine metabolism by measurement of ¹⁵N-enriched taurine in cat urine by gas chromatography-mass spectrometry 617(1993)197
- Stan, H.-J., see Butz, S. 643(1993)227
- Staniewski, J., see Mol. H. G. J. 630(1993)201
- Staniewski, J. and Rijks, J. A.
Solvent elimination rate in temperature-programmed injections of large sample volumes in capillary gas chromatography 623(1992)105
- Stanley, P., see Hynning, P.-Å. 643(1993)439
- Stanley, S. M. R., Wilhelmi, B. S. and Rodgers, J. P.
Comparison of immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250
- Stanley, S. M. R., Wilhelmi, B. S., Rodgers, J. P. and Bertschinger, H.
Immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry for the confirmation of flumethasone abuse in the equine 614(1993)77
- Stansbridge, E. M., Mills, G. A. and Walker, V.
Automated headspace gas chromatographic analysis of faecal short-chain fatty acids 621(1993)7
- Staroverov, S. M., see Mingalyov, P. G. 646(1993)267
- Steenbaar, J. G., Hajee, C. A. J. and Haagsma, N.
High-performance liquid chromatographic determination of the anthelmintic mebendazole in eel muscle tissue 615(1993)186
- Stefanova, M. E.
Purification of two proteinases from *Aspergillus terreus* by affinity chromatography 639(1993)346
- Stefansson, M.
Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123
- Stefansson, M. and Westerlund, D.
Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195
- Steffenak, I., see Hormazabal, V. 616(1993)161
- Steffenak, I., see Hormazabal, V. 648(1993)183
- Stegehuis, D., see Djordjevic, N. M. 629(1993)135
- Stegeman, G., Kraak, J. C. and Poppe, H.
Dispersion in packed-column hydrodynamic chromatography 634(1993)149
- Steger, G. G., see Mader, R. M. 613(1993)311
- Stegmeier, D. L., see Cichy, M. A. 613(1993)15
- Steigel, A., see Sundquist, A. R. 637(1993)201
- Steijger, O. M., Lingeman, H., Brinkman, U. A. T., Holthuis, J. J. M., Smilde, A. K. and Doornbos, D. A.
Liquid chromatographic analysis of carboxylic acids using N-(4-aminobutyl)-N-ethylisoluminol as chemiluminescent label: determination of ibuprofen in saliva 615(1993)97
- Steinberg, J. J., Oliver, Jr., G. W. and Cajigas, A.
Assay of deoxy-deazapurines in DNA by 3'-phosphorylation and two-dimensional thin-layer chromatography 612(1993)277
- Steinebach, O. M. and Wolterbeek, H. T.
Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199
- Steinert, A., see Peters, K. 648(1993)91
- Steinhanses, J., see Schoene, K. 605(1992)257
- Stellari, F., see Bortolotti, A. 617(1993)313
- Stemp, G., see Evans, J. M. 623(1992)163
- Stenstrom, M. K., see Lau, S.-L. 646(1993)439
- Stephanou, E. G. and Stratigakis, N. E.
Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141
- Stephany, R. W., see Van Ginkel, L. A. 624(1992)389
- Sternberg, R., see De Vanssay, E. 639(1993)255
- Stetson, P. L., Domino, E. F. and Sneyd, J. R.
Determination of plasma propofol levels using gas chromatography-mass spectrometry with selected-ion monitoring 620(1993)260
- Studel, R. and Albertsen, A.
Sulphur compounds. CLVII. Determination of cysteine-S-sulphonate by ion-pair chromatography and its formation by autoxidation of cysteine persulphide 606(1992)260
- Studel, R. and Münchow, V.
Sulphur compounds. CLIX. Determination of dithionite (S₂O₄²⁻) and hydroxymethanesulphinate (HOCH₂SO₂⁻; Rongalite) by ion-pair chromatography 623(1992)174
- Steuery, J., see Lovdahl, M. 617(1993)329
- Stewart, D. J., Purvis, D. R., Pitts, J. M. and Lowe, C. R.
Development of an enzyme-linked immunosorbent assay for C.I. Reactive Blue 2 and its application to a comparison of the stability and performance of a perfluorocarbon support with other immobilised C.I. Reactive Blue 2 affinity adsorbents 623(1992)1
- Stewart, J. T., see Jagota, N. K. 604(1992)255
- Stewart, J. T., see Kelly, J. W. 622(1993)291
- Sticher, O., see Hasler, A. 605(1992)41
- Sticher, O., see Mütsch-Eckner, M. 625(1992)183

- Stiff, D. D., Frye, R. F. and Branch, R. A.
Sensitive high-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in plasma 613(1993)127
- Stillian, J., see Rabin, S. 640(1993)97
- Stillian, J., see Siriraks, A. 640(1993)151
- Stillian, J., see Siriraks, A. 640(1993)371
- Stob, G. J., see Kema, I. P. 617(1993)181
- Stobaugh, J. F., see Rabel, S. R. 617(1993)79
- Stockmann, R., see Mao, Q. M. 646(1993)67
- Stoev, G., see Bankova, V. 607(1992)150
- Stoev, G., see Uzunov, D. 645(1993)233
- Stoppini, G., see Gazzani, G. 609(1992)391
- Stoter, G., see Schellens, J. H. M. 615(1993)309
- Stow, M. W., see Garner, R. C. 648(1993)485
- Straatman, H., see Duchateau, A. L. L. 637(1993)29
- Straczek, J., Felden, F., Dousset, B., Gueant, J. L. and Belleville, F.
Quantification of methylmalonic acid in serum measured by capillary gas chromatography-mass spectrometry as *tert*-butyldimethylsilyl derivatives 620(1993)1
- Straetemans, M. M. E., see Scheepers, P. T. J. 619(1993)215
- Strandberg, B., see Bhikhabhai, R. 604(1992)157
- Strandberg, B., see Bhikhabhai, R. 639(1993)67
- Strange, E. D., Malin, E. L., Van Hekken, D. L. and Basch, J. J.
Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81
- Strasters, J. K., see Rodgers, A. H. 636(1993)203
- Stratigakis, N. E., see Stephanou, E. G. 644(1993)141
- Straub, R. and Arm, H.
Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23
- Straub, R., Voyksner, R. D. and Keever, J. T.
Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173
- Straub, R. F. and Voyksner, R. D.
Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167
- Strecker, B., see Brückner, H. 627(1992)97
- Strege, M. A. and Lagu, A. L.
Capillary electrophoretic protein separations in polyacrylamide-coated silica capillaries and buffers containing ionic surfactants 630(1993)337
- Strein, K., see Neidlein, R. 616(1993)129
- Stringfield, W. B., see Carta, G. 605(1992)151
- Ströhl, D., see Peters, K. 648(1993)91
- Strolin Benedetti, M., see Breda, M. 620(1993)225
- Strömqvist, M.
Characterization of recombinant human extracellular superoxide dismutase 621(1993)139
- Strong, R., see Mattammal, M. B. 614(1993)205
- Štulík, K., see Schneiderka, P. 614(1993)221
- Stuppner, H., Sturm, S. and Konwalinka, G.
Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375
- Sturaro, A., Parvoli, G. and Doretto, L.
High-performance liquid chromatographic determination of urinary 2,5-hexanedione 628(1993)316
- Sturaro, A., Parvoli, G. and Doretto, L.
Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435
- Sturges, W. T. and Elkins, J. W.
Use of adsorbents to collect selected halocarbons and hydrohalocarbons of environmental interest from large air volumes 642(1993)123
- Sturm, S., see Stuppner, H. 609(1992)375
- Sturrock, G. A., Simmonds, P. G., Nickless, G. and Zwiép, D.
Analysis of chlorofluorocarbon replacement compounds by capillary gas chromatography 648(1993)423
- Su, M., see Pesck, J. J. 630(1993)95
- Su, P., see Coutts, R. T. 615(1993)265
- Subramaniam, M., see Landers, J. P. 603(1992)247
- Sudaka, P., see Candito, M. 614(1993)164
- Sugawara, K., see Ohkubo, T. 614(1993)328
- Sugita, E. T., see Maderich, A. B. 620(1993)137
- Sugita, E. T., see Maderich, A. B. 622(1993)278
- Sugiura, M., see Shinbo, T. 625(1992)101
- Sugiyama, K. and Ogata, K.
High-performance liquid chromatographic determination of histatins in human saliva 619(1993)306
- Sujata, V., Ravishankar, G. A. and Venkataraman, L. V.
Methods for the analysis of the saffron metabolites crocin, crocetin, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497
- Sukrasno, see Zarate, R. 609(1992)407
- Sulkowski, E., see Andersson, L. 604(1992)13
- Sun, J. J., see Schmidt, L. 641(1993)57
- Sun, P., see Wu, N. 635(1993)307
- Sun, P., Wu, N., Barker, G. and Hartwick, R. A.
Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475
- Sun, Q., see Mou, S. 640(1993)161
- Sun, S. F. and Hsiao, C. L.
Hummel-Dreyer method in high-performance liquid chromatography for the determination of drug-protein binding parameters 648(1993)325
- Sun, X., see Aue, W. A. 641(1993)291
- Sun, X.-Y., see Aue, W. A. 606(1992)73
- Sun, X.-Y., see Aue, W. A. 633(1993)151
- Sun, Y., Huang, A., Zhang, R. and He, L.
Practical aspects in the utilization of the Sadtler Standard Gas Chromatography Retention Index Library 648(1993)395
- Sun, Y., see Wu, Y. 648(1993)491
- Sun, Z., see Dang, Q.- 603(1992)259
- Sun, Z., see Dang, Q.- 630(1993)363
- Sun, Z.-P., see Zhang, C.-X. 612(1993)287
- Sun, Z.-P., see Zhang, C.-X. 627(1992)281
- Sundaram, K. M. S. and Nott, R.
Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300

- Sundquist, A. R., Stahl, W., Steigel, A. and Sies, H.
Separation of retinoic acid all-*trans*, mono-*cis* and poly-*cis* isomers by reversed-phase high-performance liquid chromatography 637(1993)201
- Sunell, J., see Huopalahti, R. 636(1993)133
- Sunesson, A.-L., Nilsson, C.-A., Andersson, B. and Carlson, R.
Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93
- Suortti, T.
Size-exclusion chromatographic determination of β -glucan with postcolumn reaction detection 632(1993)105
- Surber, B. W., see Thomas, S. B. 623(1992)390
- Survay, M. A., Goodall, D. M., Wren, S. A. C. and Rowe, R. C.
Oligoglycines and oligoalanines as tests for modelling mobility of peptides in capillary electrophoresis 636(1993)81
- Süss, A., see Schewes, R. 641(1993)89
- Šustáček, V., see Vespalec, R. 638(1993)255
- Sutcliffe, N., see Corran, P. H. 636(1993)87
- Sutcliffe, N. and Corran, P. H.
Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95
- Sutra, J. F., see Alvinerie, M. 612(1993)115
- Suwa, T., Urano, H., Shinohara, Y. and Kokatsu, J.
Simultaneous high-performance liquid chromatographic determination of lornoxicam and its 5'-hydroxy metabolite in human plasma using electrochemical detection 617(1993)105
- Suzuki, A., Takagaki, S., Suzuki, H. and Noda, K.
Determination of the *R,R*- and *S,S*-enantiomers of vamicamide in human serum and urine by high-performance liquid chromatography on a Chiral-AGP column 617(1993)279
- Suzuki, E., Saegusa, K., Matsuki, Y. and Nambara, T.
Assay of enzymic O-methylation of catechol oestrogens by high-performance liquid chromatography with coulometric detection 617(1993)221
- Suzuki, H., see Suzuki, A. 617(1993)279
- Suzuki, M., see Sakakura, H. 621(1993)123
- Suzuki, N., see Kiyohara, C. 646(1993)397
- Suzuki, N., see Saitoh, K. 603(1992)231
- Suzuki, N., see Saitoh, K. 609(1992)341
- Suzuki, N., see Tsukahara, S. 634(1993)138
- Suzuki, S., see Takehi, K. 630(1993)141
- Suzuki, S., see Onodera, S. 642(1993)185
- Suzuki, T., see Fukunaga, K. 621(1993)77
- Suzuki, T., Horikiri, Y., Mizobe, M. and Noda, K.
Sensitive determination of bisoprolol enantiomers in plasma and urine by high-performance liquid chromatography using fluorescence detection, and application to preliminary study in humans 619(1993)267
- Suzuki, T., see Saeki, R. 606(1992)187
- Suzuki, T., see Takagi, T. 625(1992)163
- Suzuki, T., Yaguchi, K. and Kano, I.
Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173
- Svardal, A., see Demoz, A. 635(1993)251
- Svec, F., see Tennikova, T. B. 646(1993)279
- Svensen, C., see Gamache, P. 614(1993)213
- Svenson, L., see Liu, G. 633(1993)25
- Svetic, B., see Popović, T. 615(1993)243
- Swagzdis, J. E., see Moore, T. D. 619(1993)172
- Swartz, M. E.
Capillary electrophoretic determination of inorganic ions in a prenatal vitamin formulation 640(1993)441
- Swartz, M. E. and Merion, M.
On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209
- Sweeley, C. C., see Huang, Z.-H. 635(1993)271
- Sweeley, J. C., see Milley, J. R. 613(1993)23
- Sweetman, L., see Meier-Augenstein, W. 615(1993)127
- Sweryda-Krawiec, B., see Pobozy, E. 633(1993)305
- Swinkels, L. M. J. W., see Van Hoof, H. J. C. 621(1993)33
- Switzer, B. S., see Hull, Jr., C. J. 633(1993)300
- Sybilska, D., Bielejewska, A., Nowakowski, R., Duszczak, K. and Jurczak, J.
Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349
- Sydenham, E. W., see Shephard, G. S. 641(1993)95
- Sypniewski, S., see Bald, E. 641(1993)184
- Szoko, E., see Foret, F. 608(1992)3
- Szuna, A. J. and Blain, R. W.
Determination of a new antibacterial agent (Ro 23-9424) by multidimensional high-performance liquid chromatography with ultraviolet detection and direct plasma injection 620(1993)211
- Szuna, A. J., Mulligan, T. E., Mico, B. A. and Blain, R. W.
Determination of Ro 23-7637 in dog plasma by multidimensional ion-exchange-reversed-phase high-performance liquid chromatography with ultraviolet detection 616(1993)297

T

- Tabera, J., see Blanch, G. P. 628(1993)261
- Tabera, J., see Jiménez, B. 607(1992)271
- Tabera, J., see Señoráns, F. J. 648(1993)407
- Tada, R., see Saitoh, K. 609(1992)341
- Tadano, J., see Kawasaki, S. 620(1993)61
- Taga, M., see Kaneta, T. 609(1992)369

- Tagawa, K., Hayashi, K., Mizobe, M. and Noda, K.
Highly sensitive determination of imidapril, a new angiotensin I-converting enzyme inhibitor, and its active metabolite in human plasma and urine using high-performance liquid chromatography with fluorescent labelling reagent 617(1993)95
- Tagliaro, F., Poesi, C., Aiello, R., Dorizzi, R., Ghielmi, S. and Marigo, M.
Capillary electrophoresis for the investigation of illicit drugs in hair: determination of cocaine and morphine 638(1993)303
- Taguchi, Y., see Nakashima, K. 619(1993)1
- Tahara, S., see Gagnon, H. 606(1992)255
- Taibi, G. and Schiavo, M. R.
Simple high-performance liquid chromatographic assay for polyamines and their monoacetyl derivatives 614(1993)153
- Tajima, Y., see Kawasaki, S. 620(1993)61
- Takács, J. M.
Chromatographic retention indices —an aid to identification of organic compounds (by V. Pacáková and L. Feltl) (Book Review) 641(1993)405
- Takagaki, S., see Suzuki, A. 617(1993)279
- Takagi, K., Toyoda, M., Saito, Y., Mizuno, K., Shimizu, M. and Satoh, S.
Determination of kinetin in callus of *Panax ginseng* by liquid chromatography 628(1993)122
- Takagi, T., Aoyanagi, N., Nishimura, K., Ando, Y. and Ota, T.
Enantiomer separations of secondary alkanols with little asymmetry by high-performance liquid chromatography on chiral columns 629(1993)385
- Takagi, T., see Lundahl, P. 604(1992)95
- Takagi, T. and Suzuki, T.
Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163
- Takahashi, Y., see Shin, H.-C. 620(1993)39
- Takahata, T., see Komatsu, H. 644(1993)17
- Takai, N., see Kanazawa, H. 630(1993)408
- Takai, N., see Kanazawa, H. 631(1993)215
- Takai, N., see Kanazawa, H. 632(1993)79
- Takama, K., see Fukunaga, K. 621(1993)77
- Takano, C., see Kai, M. 621(1993)181
- Takasaki, W., Asami, M., Muramatsu, S., Hayashi, R., Tanaka, Y., Kawabata, K. and Hoshiyama, K.
Stereoselective determination of the active metabolites of a new anti-inflammatory agent (CS-670) in human and rat plasma using antibody-mediated extraction and high-performance liquid chromatography 613(1993)67
- Takashina, H., see Matsuura, K. 616(1993)229
- Takashina, H., see Matsuura, K. 621(1993)173
- Takeda, H., see Sakakura, H. 621(1993)123
- Takeda, N. and Akiyama, Y.
Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorescamine derivatization 607(1992)31
- Takeda, N., see Kajita, M. 613(1993)1
- Takeda, Y., see Ohta, H. 628(1993)199
- Takei, S., see Naito, K. 604(1992)225
- Takekita, H., see Iida, R. 622(1993)9
- Taketa, K., see Hirai, H. 604(1992)91
- Takeuchi, A., see Kanazawa, H. 631(1993)215
- Takeuchi, Y., see Ogawa, H. K. 612(1993)145
- Takitani, S., see Ohta, T. 637(1993)35
- Takitani, S., see Sano, A. 621(1993)157
- Tal, D. M., Goldshleger, R. and Karlish, S. J. D.
Separation of membrane-embedded tryptic peptides of Na,K-ATPase by size-exclusion chromatography 646(1993)153
- Talasek, R. T. and Daugherty, K. E.
Simultaneous analysis of carbon oxides and hydrocarbons by gas chromatography-mass spectrometry 635(1993)265
- Talasek, R. T. and Daugherty, K. E.
Analysis of carbon monoxide by molecular sieve trapping 639(1993)221
- Talasz, H., see Lindner, H. 608(1992)211
- Tambe, A. S., Daniel, T., Biswas, S. and Ayyangar, N. R.
Gas chromatographic method for the determination of chlorobenzophenone isomers 628(1993)143
- Tambuté, A., see Camel, V. 642(1993)263
- Tamura, M., see Akasaka, K. 617(1993)205
- Tamura, Y., see Murakami, A. 648(1993)157
- Tanaka, A., see Chikuma, T. 635(1993)81
- Tanaka, H., see Hanaoka, N. 606(1992)129
- Tanaka, H., see Oi, S. 645(1993)17
- Tanaka, I., see Hirokawa, T. 638(1993)215
- Tanaka, M., Ishida, T., Araki, T., Masuyama, A., Nakatsuji, Y., Okahara, M. and Terabe, S.
Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469
- Tanaka, N., see Hosoya, K. 625(1992)121
- Tanaka, N., see Yoshida, T. 613(1993)185
- Tanaka, S., see Kaneta, T. 609(1992)369
- Tanaka, S., see Kuwata, K. 643(1993)25
- Tanaka, T., see De Felice, C. 645(1993)101
- Tanaka, T., see Hayakawa, K. 616(1993)327
- Tanaka, T., see Hayakawa, K. 620(1993)25
- Tanaka, W., see Chikuma, T. 635(1993)81
- Tanaka, Y., see Takasaki, W. 613(1993)67
- Tang, Y., see Feng, Z. 609(1992)187
- Tani, Y. and Ohno, T.
Analysis of 6R- and 6S-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249
- Taniguchi, H., see Katayama, M. 612(1993)33
- Taniguchi, H., see Katayama, M. 616(1993)317
- Tanikawa, M., Uzu, M., Ohsawa, Y. and Fukushima, M.
Sensitive method for determination of nicorandil in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection 617(1993)163
- Tanishima, K. and Kita, M.
High-performance liquid chromatographic determination of plasma ascorbic acid in relationship to health care 613(1993)275

- Tao, L. and Li, W.
Rapid and sensitive anion-exchange high-performance liquid chromatographic determination of radiolabeled inositol phosphates and inositol trisphosphate isomers in cellular systems 607(1992)19
- Tapon-Breaudière, J., see Sinniger, V. 615(1993)215
- Tarbin, J. A. and Shearer, G.
High-performance liquid chromatographic method for the determination of the anthelmintic nitroxylin in cattle muscle tissue with on-line anion-exchange clean-up 613(1993)347
- Tarbin, J. A. and Shearer, G.
High-performance liquid chromatographic method for the determination of the dinitrocarbanilide component of nicarbazine in eggs with on-line clean-up 613(1993)354
- Tarui, S., see Asakura, M. 614(1993)135
- Tassaneeyakul, W., Veronese, M. E., Birkett, D. J. and Miners, J. O.
High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-4502E1 activity, in human liver microsomes 616(1993)73
- Tatematsu, A., see Kajita, M. 613(1993)1
- Taton, G., see Vandenbosch, C. 612(1993)77
- Tauer, C., see Kaltenbrunner, O. 639(1993)41
- Taverna, M., see Baillet, A. 616(1993)311
- Taverna, M., see Pianetti, G. A. 630(1993)371
- Tay, L. K., see Willey, T. A. 621(1993)231
- Taylor, A., see Simon, V. A. 643(1993)317
- Taylor, D. A., see Borg, P. J. 621(1993)165
- Taylor, H. E., see Murphy, D. M. 642(1993)459
- Taylor, P. J. L., see Garner, R. C. 648(1993)485
- Taylor, W. G., Vedres, D. D. and Elder, J. L.
Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393
- Tchapla, A., see Lesellier, E. 633(1993)9
- Tchapla, A., see Lesellier, E. 641(1993)137
- Tchapla, A., see Lesellier, E. 645(1993)29
- Tebbett, I. R., see Wielbo, D. 615(1993)164
- Teffera, Y., Abramson, F. P., McLean, M. and Vestal, M.
Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89
- Teixidor, P. and Grimalt, J. O.
Gas chromatographic determination of isoprenoid alkyglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253
- Tekel', J. and Kovačičová, J.
Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291
- Tenbarge, J. B., see Lantz, R. J. 614(1993)175
- Ten Bokkel Huinink, W. W., see Beijnen, J. H. 617(1993)111
- Ten Bokkel Huinink, W. W., see Van Gijn, R. 614(1993)299
- Tennikova, T. B. and Svec, F.
High-performance membrane chromatography: highly efficient separation method for proteins in ion-exchange, hydrophobic interaction and reversed-phase modes 646(1993)279
- Teplán, I., see Idei, M. 648(1993)251
- Tepperman, K., see Zhao, Z. 615(1993)83
- Terabe, S.
Introduction to micellar electrokinetic chromatography (by J. Vindevogel and P. Sandra) (Book Review) 625(1992)397
- Terabe, S., Matsubara, N., Ishihama, Y. and Okada, Y.
Microemulsion electrokinetic chromatography: comparison with micellar electrokinetic chromatography 608(1992)23
- Terabe, S., Miyashita, Y., Ishihama, Y. and Shibata, O.
Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47
- Terabe, S., see Tanaka, M. 648(1993)469
- Terán, M. T., see Fernández, N. 619(1993)143
- Teranishi, T., see Tsuruta, Y. 617(1993)213
- Terao, T., see Toyo'oka, T. 625(1992)357
- Terao, T., see Toyo'oka, T. 627(1992)75
- Terefe, H. and Blaschke, G.
Direct determination of the enantiomers of halofantrine and its pharmacologically active metabolite N-desbutylhalofantrine by high-performance liquid chromatography 615(1993)347
- Ternorutsky, L., see Vilenchik, L. Z. 648(1993)9
- Teshima, G. and Canova-Davis, E.
Separation of oxidized human growth hormone variants by reversed-phase high-performance liquid chromatography. Effect of mobile phase pH and organic modifier 625(1992)207
- Tešić, Ž. L., Janjić, T. J. and Čelap, M. B.
Thin-layer chromatography on silica gel of a homologous series of bis(alkylxanthato)nickel(II) complexes 628(1993)148
- Thibault, P., see Hogge, L. R. 623(1992)255
- Thiébaud, D., see Camel, V. 605(1992)95
- Thiébaud, D. and Rosset, R.
Hydrodynamic and hydrostatic high-speed countercurrent chromatography and its coupling with various kinds of detectors. Application to biochemical separations (Review) 626(1992)41
- Thiel, P. G., see Shephard, G. S. 641(1993)95
- Thienpont, A., see Pyell, U. 634(1993)169
- Thilgen, C., see Herren, D. 644(1993)188
- Thoma, R. S., see Crimmins, D. L. 634(1993)241
- Thomas, L. C., Edwards, J. A. and Fiehrer, K. M.
Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193
- Thomas, L. C., Fiehrer, K. M. and Edwards, J. A.
Quantitative comparisons using gas chromatography-mass spectrometry and dual-isotope techniques for detection of isotope and impurity interferences 639(1993)215

- Thomas, S. B., Surber, B. W. and Fitzgerald, M.
Preparative separation and analysis of the enantiomers of [¹⁴C]Zileuton, a 5-lipoxygenase inhibitor 623(1992)390
- Thompson, D. H., see Camacho-Torralba, P. L. 641(1993)31
- Thompson, D. H., see Camacho-Torralba, P. L. 646(1993)259
- Thompson, R., see KennedyKeller, R. 645(1993)161
- Thompson, T. S., Kolic, T. M., Townsend, J. A. and Mercer, R. S.
Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in tire fire runoff oil 648(1993)213
- Thompson, Jr., H. C., see Holcomb, M. 624(1992)341
- Thomson, M. L., see Snodgrass, J. T. 641(1993)396
- Thonart, P., see Razafindralambo, H. 639(1993)81
- Thormann, W., see Caslavská, J. 638(1993)205
- Thormann, W., see Caslavská, J. 638(1993)335
- Thormann, W., see Chmelík, J. 632(1993)229
- Thormann, W., see Gebauer, P. 608(1992)47
- Thormann, W., see Křivánková, L. 638(1993)119
- Thormann, W., Lienhard, S. and Wernly, P.
Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137
- Thormann, W., see Molteni, S. 638(1993)187
- Thormann, W., see Mosher, R. A. 638(1993)155
- Thormann, W., see Wernly, P. 608(1992)251
- Thormann, W., see Wernly, P. 616(1993)305
- Threadgill, M. D., see Mráz, J. 641(1993)194
- Thuillier, A., see Fernandez, C. 617(1993)271
- Thurman, E. M., see Meyer, M. T. 629(1993)55
- Thurman, E. M., see Mills, M. S. 629(1993)1
- Thurman, E.M., see Mills, M.S. 629(1993)11
- Tidwell, R. R., see Hanson, G. D. 622(1993)61
- Tiedra, P. G., see García, C. 605(1992)251
- Tienstra, P. A., Van Riel, J. A. M., Mingorance, M. D. and Olieman, C.
Assessment of the capabilities of capillary zone electrophoresis for the determination of hippuric and orotic acid in whey 608(1992)357
- Tillement, J.-P., see Hervé, F. 615(1993)47
- Tiller, P. R.
Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101
- Timerbaev, A. R. and Bonn, G. K.
Complexation ion chromatography —an overview of developments and trends in trace metal analysis (Review) 640(1993)195
- Timerbaev, A. R., Buchberger, W., Semenova, O. P. and Bonn, G. K.
Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379
- Timerbaev, A. R., Semenova, O. P., Tsoi, I. G. and Petrukhin, O. M.
Correlation analysis in liquid chromatography of metal chelates. III. Multi-dimensional models in reversed-phase liquid chromatography 648(1993)307
- Tindall, G. W. and Perry, R. L.
Determination of ester substituents in cellulose esters 633(1993)227
- Tindall, G. W., see Wilder, D. R. 635(1993)221
- Tindall, G. W., Wilder, D. R. and Perry, R. L.
Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163
- Tinke, A. P., see Hugener, M. 647(1993)375
- Tinke, A. P., see Reinhoud, N. J. 627(1992)263
- Tinke, A. P., Van der Hoeven, R. A. M., Niessen, W. M. A., Tjaden, U. R. and Van der Greef, J.
New ionization strategies in particle-beam liquid chromatography-mass spectrometry based on the principle of surface ionization 647(1993)63
- Tinke, A. P., Van der Hoeven, R. A. M., Niessen, W. M. A., Van der Greef, J., Vincken, J. -P. and Schols, H. A.
Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279
- Titulaer, H. A. C. and Vink-Blijleven, N.
Assay of artelinic acid in serum by high-performance liquid chromatography 612(1993)331
- Tiwari, B. B., see Srivastava, S. K. 635(1993)171
- Tjaden, U. R., see Hugener, M. 647(1993)375
- Tjaden, U. R., see Irth, H. 633(1993)65
- Tjaden, U. R., see Niessen, W. M. A. 636(1993)3
- Tjaden, U. R., see Niessen, W. M. A. 647(1993)107
- Tjaden, U. R., see Reeuwijk, H. J. E. M. 614(1993)95
- Tjaden, U. R., see Reinhoud, N. J. 627(1992)263
- Tjaden, U. R., see Reinhoud, N. J. 641(1993)155
- Tjaden, U. R., see Tinke, A. P. 647(1993)63
- Tjaden, U. R., see Van Veelen, P. A. 647(1993)367
- Tjerneld, F., see Alred, P. A. 628(1993)205
- Tod, M., see Prevot, M. 605(1992)33
- Tohma, M., see Chiba, H. 613(1993)132
- Tohyama, K., see Niwa, T. 613(1993)9
- Tojo, H., Horiike, K., Ishida, T., Kobayashi, T., Nozaki, M. and Okamoto, M.
Analytical and micropreparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205
- Tokiyasu, T., see Yoshida, M. 628(1993)235
- Tokumura, T. and Horie, T.
Determination of a novel β -lactam antibiotic (E-1100) in rat plasma by high-performance liquid chromatography 620(1993)153
- Toledano, C., see Tsikas, D. 614(1993)37
- Tolman, V., see Vlasáková, V. 639(1993)273
- Tomalia, D., see Dubin, P. L. 635(1993)51
- Tomás, M. C., see Hierro, M. T. G. 607(1992)329
- Tomás-Barberán, F. A., Ferreres, F., Amparo Blázquez, M., García-Viguera, C. and Tomás-Lorente, F.
High-performance liquid chromatography of honey flavonoids 634(1993)41
- Tomás-Lorente, F., see Tomás-Barberán, F. A. 634(1993)41
- Tomer, K. B., see Parker, C. E. 616(1993)45

- Tomita, M., Okuyama, T., Sato, S. and Ishizu, H.
Simultaneous determination of nitrazepam and its metabolites in urine by micellar electrokinetic capillary chromatography 621(1993)249
- Tomiyama, N., see Kobayashi, H. 643(1993)197
- Tomlinson, A. J., Benson, L. M., Johnson, K. L. and Naylor, S.
Investigation of the metabolic fate of the neuroleptic drug haloperidol by capillary electrophoresis-electrospray ionization mass spectrometry 621(1993)239
- Tomoda, M., see Kanazawa, H. 630(1993)408
- Tonani, C., see Giuffreda, E. 630(1993)313
- Tong, A., see Akama, Y. 633(1993)129
- Tong, K.-T., see Zhang, Z. 604(1992)143
- Toofan, M., see Rabin, S. 640(1993)97
- Toofan, M., see Siriraks, A. 602(1992)89
- Torcini, S., see Caprioli, R. 640(1993)365
- Toribio, F., see Martínez-Lara, E. 609(1992)141
- Toribio, L., see Del Nozal, M. J. 607(1992)191
- Törnell, B., see Hargitai, T. 630(1993)79
- Torres, A. R. and Peterson, E. A.
Purification of complex protein mixtures by ion-exchange displacement chromatography using spacer displacers 604(1992)39
- Torres-Lapasió, J. R., Villanueva-Camañas, R. M., Sanchis-Mallols, J. M., Medina-Hernández, M. J. and García-Alvarez-Coque, M. C.
Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87
- Torri, G., see Da Col, R. 647(1993)289
- Tóth, Z. A., Raatikainen, O., Naaranlahti, T. and Auriola, S.
Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423
- Townsend, J. A., see Thompson, T. S. 648(1993)213
- Townsend, K. J., see Wenzel, T. J. 637(1993)187
- Townsend, K. M. and Dawkins, H. J. S.
Field alternation gel electrophoresis — status quo (Review) 618(1993)223
- Toyoda, M., see Takagi, K. 628(1993)122
- Toyo'oka, T., Ishibashi, M. and Terao, T.
Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357
- Toyo'oka, T., Ishibashi, M. and Terao, T.
Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75
- Traag, W. A., see Van Rhijn, J. A. 619(1993)243
- Traag, W. A., see Van Rhijn, J. A. 630(1993)297
- Tracqui, A., Kintz, P. and Mangin, P.
High-performance liquid chromatographic assay with diode-array detection for toxicological screening of zopiclone, zolpidem, suriclone and alpidem in human plasma 616(1993)95
- Traldi, P., see Romanello, M. 616(1993)167
- Traoré, F., Farinotti, R. and Mahuzier, G.
Determination of malonaldehyde by coupled high-performance liquid chromatography-spectrofluorimetry after derivatization with luminarin 3 648(1993)111
- Traverso, I., see Zachariou, M. 646(1993)107
- Tredget, E. E., Forsyth, N., Uji-Friedland, A., Chambers, M., Ghahary, A., Scott, P. G., Hogg, A. M. and Burke, J. F.
Gas chromatography-mass spectrometry determination of $^{18}\text{O}_2$ in ^{18}O -labelled 4-hydroxyproline for measurement of collagen synthesis and intracellular degradation 612(1993)7
- Trenque, T., see Lamiable, D. 620(1993)273
- Trenque, T., Lamiable, D., Millart, H., Vistelle, R. and Choisy, H.
Gas chromatographic determination of meprobamate in human plasma 615(1993)343
- Trepp, C., see Meier, U. 629(1993)361
- Treumann, A., see Gaus, H.-J. 635(1993)319
- Tribet, C., Gaboriaud, R. and Gareil, P.
Analogy between micelles and polymers of ionic surfactants. A capillary isotachopheretic study of small ionic aggregates in water-organic solutions 608(1992)131
- Tribet, C., Gaboriaud, R. and Gareil, P.
Determination of C_8 - C_{20} saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381
- Tridico, R., see Benfenati, E. 605(1992)129
- Trieling, R. G., see Reijenga, J. C. 638(1993)195
- Trkola, A., see Vorauer, K. 625(1992)33
- Troitsky, G. V., see Atamas, S. P. 644(1993)407
- Trojanowicz, M., see Han, S. H. 648(1993)283
- Trojanowicz, M., see Pobozy, E. 633(1993)305
- Trout, G. J., see Lisi, A. M. 617(1993)265
- Trowbridge, D., see Peterson, T. E. 603(1992)298
- Trucksess, M. W.
Separation and isolation of trace impurities in L-tryptophan by high-performance liquid chromatography 630(1993)147
- Trucksess, M. W., see Holcomb, M. 624(1992)341
- Trushin, S. A., see Belenkii, B. G. 645(1993)1
- Tsai, E. W., see Qin, X.-Z. 626(1992)251
- Tsai, E. W., Singh, M. M., Lu, H. H., Ip, D. P. and Brooks, M. A.
Application of capillary electrophoresis to pharmaceutical analysis. Determination of alendronate in dosage forms 626(1992)245
- Tsai, H., see Weber, S. G. 638(1993)1
- Tsai, T.-H., see Peng, Y.-T. 617(1993)87
- Tschernuter-Meixner, I., see Seidel, V. 642(1993)253
- Tse, H. L. A., see Di Marco, M. P. 645(1993)107
- Tserng, K.-Y., see Ingalls, S. T. 619(1993)9
- Tsikis, D., Fauler, J., Gutzki, F. M., Röder, T., Bestmann, H. J. and Frölich, J. C.
Gas chromatographic-mass spectrometric determination of leukotriene E_4 in human urine using deuterium-labelled leukotriene E_4 standards 622(1993)1

- Tsikakos, D., see Velásquez, R. 639(1993)317
- Tsikakos, D., Velásquez, R., Toledano, C. and Brunner, G.
Ion-pair extraction of histamine from biological fluids and tissues for its determination by high-performance liquid chromatography with fluorescence detection 614(1993)37
- Tso, J. M. Y., see Henshall, A. 608(1992)413
- Tsoi, I. G., see Timerbaev, A. R. 648(1993)307
- Tsoupras, G., see Bicchi, C. 609(1992)305
- Tsoupras, G., see Careri, M. 647(1993)79
- Tsubota, T., see Yamazaki, T. 615(1993)180
- Tsuda, T., Ikedo, M., Jones, G., Dadoo, R. and Zare, R. N.
Observation of flow profiles in electroosmosis in a rectangular capillary 632(1993)201
- Tsuge, S., see Matsumoto, K. 605(1992)87
- Tsuhako, M., see Baba, Y. 632(1993)137
- Tsujino, Y. and Kuwata, K.
Sensitive flame ionization detector for the determination of traces of atmospheric hydrocarbons by capillary column gas chromatography 642(1993)383
- Tsukahara, S., Saitoh, K. and Suzuki, N.
Modification of reversed-phase liquid chromatographic retention characteristics for metal-tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138
- Tsukioka, T., Ozawa, H. and Murakami, T.
Gas chromatographic-mass spectrometric determination of lower aliphatic tertiary amines in environmental samples 642(1993)395
- Tsunoda, N.
Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography-ion-trap mass spectrometry 637(1993)167
- Tsuruta, Y., Teranishi, T., Date, Y. and Kohashi, K.
Simultaneous determination of cholesterol and cholestanol in human serum by high-performance liquid chromatography using 3-(5,6-methylenedioxy-2-phthalimidyl)benzoyl azide as precolumn fluorescent labelling reagent 617(1993)213
- Tsutsui, K., see Seki, S. 618(1993)147
- Tucker, H. L., Smith, T. K. and Van Hook, III, S. J.
Determination of anions in an epoxy curing agent by ion chromatography 640(1993)355
- Tuinstra, L. G. M. T., see Dunne, C. 629(1993)229
- Tuinstra, L. G. M. T., see Van Rhijn, J. A. 630(1993)297
- Tulich, L. J., see Pinkston, J. D. 622(1993)209
- Tuncel, A., Denizli, A., Piskin, E., Purvis, D. and Lowe, C.
Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161
- Türck, F., see Knipping, B. 640(1993)279
- Turgeon, J., see Fiset, C. 612(1993)231
- Turk, V., see Popović, T. 615(1993)243
- Turková, J.
Affinity membranes, their chemistry and performance in adsorptive separation processes (by E. Klein) (Book Review) 623(1992)409
- Turner, C., see Nichols, P. D. 643(1993)189
- Turner, N. D., see Bakes, D. M. 615(1993)117
- Turujman, S. A.
Rapid direct resolution of the stereoisomers of all-*trans* astaxanthin on a Pirkle covalent L-leucine column 631(1993)197
- Tyczkowska, K. L., see Seay, S. S. 620(1993)281
- Tyczkowska, K. L., Voyksner, R. D., Anderson, K. L. and Aronson, A. L.
Determination of ceftiofur and its metabolite desfuroylceftiofur in bovine serum and milk by ion-paired liquid chromatography 614(1993)123
- Tyler, R. T., see Karoutis, A. I. 623(1992)186

U

- Ubbink, J. B., Lagendijk, J. and Hayward Vermaak, W. H.
Simple high-performance liquid chromatographic method to verify the direct barbituric acid assay for urinary cotinine 620(1993)254
- Uchibori, H., see Ogawa, H. K. 612(1993)145
- Uchida, T., Usui, T., Watanabe, T. and Higuchi, S.
Simultaneous determination of a new inhibitor of acyl CoA:cholesterol acyltransferase, YM17E, and five metabolites using high-performance liquid chromatography with electrochemical detection 613(1993)179
- Uchiyama, H., see Kanazawa, H. 631(1993)215
- Uden, P. C., see Brooks, M. W. 637(1993)175
- Uden, P. C., see Dowling, T. M. 644(1993)153
- Uden, P. C., see Italia, M. P. 605(1992)81
- Uden, P. C., see Khuhawar, M. Y. 636(1993)271
- Ueda, H., see Kawasaki, S. 620(1993)61
- Ueda, M., see Hirokawa, T. 633(1993)261
- Ueda, M., see Kakehi, K. 630(1993)141
- Uemura, T., see Jinno, K. 648(1993)71
- Ueno, T., see Honda, S. 608(1992)289
- Ueno, Y., see Okada, T. 604(1992)219
- Uji-Friedland, A., see Tredget, E. E. 612(1993)7
- Ullrich, R., see Qian, J. 609(1992)269
- Ultsch, I., see Pachinger, A. 620(1993)55
- Umile, C. and Huber, J. F. K.
Determination of inorganic and organic anions in one run by ion chromatography with column switching 640(1993)27
- Underberg, W. J. M., see Kaijser, G. P. 614(1993)253
- Underberg, W. J. M., see Wafelman, A. R. 622(1993)71
- Unge, T., see Bhikhabhai, R. 604(1992)157
- Unge, T., see Bhikhabhai, R. 639(1993)67
- Unger, K. K., see McCoy, M. A. 644(1993)1
- Unger, K. K., see Schaumann, C. 646(1993)227
- Uniyal, G. C., see Gupta, M. M. 637(1993)209

- Unni, L. K.
 Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples. Reply to Aden Abdi *et al.* 612(1993)338
- Unterhalt, M., see Schleyer, E. 614(1993)275
- Upadrashta, B., see Barnes, C. S. 613(1993)281
- Upcroft, J. A., see Upcroft, P. 618(1993)79
- Upcroft, P. and Upcroft, J. A.
 Comparison of properties of agarose for electrophoresis of DNA (Review) 618(1993)79
- Urano, H., see Suwa, T. 617(1993)105
- Urbaitis, B. K., see Chiancone, E. 604(1992)117
- Urge, L., see Gorbics, L. 637(1993)43
- Uriarte, C., see Etxeberria, A. 607(1992)227
- Űrmös, I., Benkő, S. M. and Klebovich, I.
 Simple and rapid determination of clomiphene *cis* and *trans* isomers in human plasma by high-performance liquid chromatography using on-line post-column photochemical derivatization and fluorescence detection 617(1993)168
- Usui, T., see Uchida, T. 613(1993)179
- Utley, D., see Black, R. M. 637(1993)71
- Utsuki, T., see Yoshioka, M. 603(1992)223
- Utzman, S.
 Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287
- Uzu, M., see Tanikawa, M. 617(1993)163
- Uzunov, D. and Stoev, G.
 Some aspects of the enantio-recognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocinaine and mexiletine as model compounds 645(1993)233
- V**
- Vaccher, C., Berthelot, P. and Debaert, M.
 Direct separation of 4-amino-3-(4-chlorophenyl)butyric acid and analogues, GABA_B ligands, using a chiral crown ether stationary phase 645(1993)95
- Vacík, J., see Dubrovčáková, E. 623(1992)337
- Vacík, J., see Hirokawa, T. 628(1993)283
- Vacík, J., see Zusková, I. 648(1993)233
- Vadász, Z., see Idei, M. 648(1993)251
- Vail, P. D., see Foglia, T. A. 637(1993)157
- Valcárcel, M., see Ballesteros, E. 633(1993)169
- Valenta, H., Kühn, I. and Rohr, K.
 Determination of ochratoxin A in urine and faeces of swine by high-performance liquid chromatography 613(1993)295
- Valentino, A., see De Paoli, M. 626(1992)145
- Valenzuela, A., see Speisky, H. 612(1993)315
- Valkó, K., see Forgács, E. 631(1993)207
- Valkó, K., see Hamedani, M. P. 619(1993)191
- Valkó, K. and Slégel, P.
 New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49
- Valle, A. I., González, M. J. and Marina, M. L.
 Separation and quantitation of some metal ions by reversed-phase high-performance liquid chromatography using *in situ* complexation with (\pm)-*trans*-1,2-diaminecyclohexane-N,N,N',N'-tetraacetic acid 607(1992)207
- Vallot, T., see Pasquier, M.-C. 614(1993)27
- Valtcheva, L., Mohammad, J., Pettersson, G. and Hjertén, S.
 Chiral separation of β -blockers by high-performance capillary electrophoresis based on non-immobilized cellulase as enantioselective protein 638(1993)263
- Vampa, G., Benvenuti, S. and Pecorari, P.
 Determination of the reactivity of uracil derivatives with respect to methyl iodide by high-performance thin-layer chromatographic densitometry 604(1992)261
- Van Aerschot, A., see Van Schepdael, A. 648(1993)299
- Van Alebeek, G.-J. W. M., Hermans, J. M. H., Keltjens, J. T. and Vogels, G. D.
 Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65
- Van Asten, A. C., see Bruin, G. J. M. 608(1992)97
- Van Asten, A. C., Venema, E., Kok, W. T. and Poppe, H.
 Use of thermal field flow fractionation for the fractionation of polybutadiene in various organic solvents 644(1993)83
- Van Belle, S., see Vandenbosch, C. 612(1993)77
- Van Beusekom, C. M., see Wolthers, B. G. 622(1993)33
- Vandenberg, P., see Johnson, D. C. 640(1993)79
- Vandecasteele, J. P., see Davila, A. M. 648(1993)139
- Van Dedem, G. W. K., see Damm, J. B. L. 608(1992)297
- Van de Merbel, N. C., Hageman, J. J. and Brinkman, U. A. T.
 Membrane-based sample preparation for chromatography (Review) 634(1993)1
- Van den Berg, H., see Van Hoof, H. J. C. 621(1993)33
- Van den Biggelaar-Martea, M., see De Groot, A. N. J. A. 613(1993)158
- Van den Biggelaar-Martea, M., see Vree, T. B. 616(1993)271
- Vandenbosch, C., Van Belle, S., De Smet, M., Taton, G., Bruynseels, V., Vandenhoven, G. and Massart, D. L.
 Determination of leucovorin and 5-fluorouracil in plasma by high-performance liquid chromatography 612(1993)77
- Van Den Bossche, W., see Baeyens, W. 638(1993)319
- Van den Eeckhout, E., see Coene, J. 612(1993)21
- Van den Eeckhout, E., see Lemièrre, F. 647(1993)211
- Vandenhoven, G., see Vandenbosch, C. 612(1993)77
- Vanderford, G.
 Determination of trace anions in hydrofluoric acid by ion chromatography 602(1992)75
- Van der Greef, J.
 Foreword 647(1993)1
- Van der Greef, J., see Hugener, M. 647(1993)375
- Van der Greef, J., see Irth, H. 633(1993)65
- Van der Greef, J., see Niessen, W. M. A. 636(1993)3
- Van der Greef, J., see Niessen, W. M. A. 647(1993)107

- Van der Greef, J., see Niessen, W. M. A. 647(1993)319
- Van der Greef, J., see Reeuwijk, H. J. E. M. 614(1993)95
- Van der Greef, J., see Reinhoud, N. J. 627(1992)263
- Van der Greef, J., see Reinhoud, N. J. 641(1993)155
- Van der Greef, J., see Tinke, A. P. 647(1993)63
- Van der Greef, J., see Tinke, A. P. 647(1993)279
- Van der Greef, J., see Van der Hoeven, R. A. M. 627(1992)63
- Van der Greef, J., see Van Veelen, P. A. 647(1993)367
- Van der Hage, E. R. E., Van Loon, W. M. G. M., Boon, J. J., Lingeman, H. and Brinkman, U. A. T.
Combined high-performance aqueous size-exclusion chromatographic and pyrolysis-gas chromatographic-mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263
- Van der Heiden, C., see Dankers, J. 641(1993)357
- Van der Hoeven, R. A. M., see Niessen, W. M. A. 647(1993)319
- Van der Hoeven, R. A. M., Niessen, W. M. A., Schols, H. A., Bruggink, C., Voragen, A. G. J. and Van der Greef, J.
Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography-thermospray mass spectrometry 627(1992)63
- Van der Hoeven, R. A. M., see Tinke, A. P. 647(1993)63
- Van der Hoeven, R. A. M., see Tinke, A. P. 647(1993)279
- Van der Hoff, G. R., Baumann, R. A., Brinkman, U. A. T. and Van Zoonen, P.
On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367
- Van der Poll, J. M., Verluis-de Haan, G. G. and De Wilde, O.
Determination of ethylenethiourea in water samples by gas chromatography with alkali flame ionization detection and mass spectrometric confirmation 643(1993)163
- Van der Schans, M. J., see Kuypers, A. W. H. M. 621(1993)149
- Van der Velde, E. G., De Haan, W. and Liem, A. K. D.
Supercritical fluid extraction of polychlorinated biphenyls and pesticides from soil. Comparison with other extraction methods 626(1992)135
- Van der Velde, E. G., see Liem, A. K. D. 624(1992)317
- Van der Vijgh, W. J. F., see Klein, I. 622(1993)249
- Van der Vusse, G. J., see Van Haaster, C. M. C. J. 617(1993)233
- Van der Wal, S., see Houben, R. J. H. 634(1993)317
- Van Der Weken, G., see Baeyens, W. 638(1993)319
- Van der Welle, W., see Irth, H. 633(1993)65
- Van de Spreng, P. F., see Van Rhijn, J. A. 630(1993)297
- Van de Water, R., see Frey, D. D. 603(1992)43
- Vandewyer, M., see Van Schepdael, A. 648(1993)299
- Van Dongen, P. W. J., see De Groot, A. N. J. A. 613(1993)158
- Van Dongen, W., see Lemièrre, F. 647(1993)211
- Van Dongen, W. D., Versluis, C., Van Wassenaar, P. D., De Koster, C. G., Heerma, W. and Haverkamp, J.
Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a "bio-engineered" variant by high-performance liquid chromatography-frit fast atom bombardment mass spectrometry 647(1993)301
- Van Eijk, H. M. H., Rooyackers, D. R. and Deutz, N. E. P.
Rapid routine determination of amino acids in plasma by high-performance liquid chromatography with a 2-3 μ m Spherisorb ODS II column 620(1993)143
- Vaněk, T., see Plešek, J. 633(1993)73
- Van Gijn, R., Rosing, H., Ten Bokkel Huinink, W. W., Van Tellingen, O., Vermorken, J. B., Liefing, A. J. M., Bruno, R., Pinedo, H. M. and Beijnen, J. H.
Determination of intopidine, a new antitumour drug, in human whole blood and plasma by normal-phase high-performance liquid chromatography with fluorescence detection 614(1993)299
- Van Ginkel, L. A., Jansen, E. H. J. M., Stephany, R. W., Zootjes, P. W., Schwillens, P. L. W. J., Van Rossum, H. J. and Visser, T.
Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389
- Van Haaster, C. M. C. J., Engels, W., Lemmens, P. J. M. R., Hornstra, G. and Van der Vusse, G. J.
Rapid and highly sensitive high-performance liquid chromatographic method for the determination of histamine and 3-methylhistamine in biological samples using fluorescamine as the derivatizing agent 617(1993)233
- Van Hattum, B., see Stäb, J. A. 609(1992)195
- Van Hekken, D. L., see Strange, E. D. 624(1992)81
- Van Hoof, H. J. C., Swinkels, L. M. J. W., Van Stevenhagen, J. J., Van den Berg, H., Ross, H. A. and Benraad, T. J.
Advantages of paper chromatography as a preparative step in the assay of 1,25-dihydroxyvitamin D 621(1993)33
- Van Hoof, V. O., Van Mullem, M., De Broe, M. E. and Lepoutre, L. G.
Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235
- Van Hook, III, S. J., see Tucker, H. L. 640(1993)355
- Van Iperen, D. J., see Debets, A. J. J. 608(1992)151
- Van Jaarsveld, P. P., see Kruger, P. B. 612(1993)191
- Van Jaarsveld, P. P., see Seifart, H. I. 619(1993)285
- Van Leuken, R. G. J. and Kwakkenbos, G. T. C.
Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic-thermospray mass spectrometric applications 626(1992)81
- Van Leuken, R. G. J., Kwakkenbos, G. T. C. and Duchateau, A. L. L.
Volatile ion-pairing agents for liquid chromatographic-thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131
- Van Lier, J. E., see Margaron, P. 634(1993)57
- Van Loo, E. M., see Coenegracht, P. M. J. 631(1993)145
- Van Loon, W. M. G. M., see Van der Hage, E. R. E. 634(1993)263
- Van Miert, A. S. J. P. A. M., see Alvinerie, M. 612(1993)115
- Van Mullem, M., see Van Hoof, V. O. 646(1993)235
- Van Nifterik, L., Xu, J., Laurent, J. L., Mathieu, J. and Rakoto, C.
Analysis of cellulose and kraft pulp ozonolysis products by anion-exchange chromatography with pulsed amperometric detection 640(1993)335

- VanNoord, T., see Hariharan, M. 613(1993)195
 VanNoord, T., see Hariharan, M. 621(1993)15
 Van Onckelen, H., see Lemièrre, F. 647(1993)211
 Van Rhijn, J. A., Traag, W. A. and Heskamp, H. H.
 Confirmatory analysis of clenbuterol using two different derivatives simultaneously 619(1993)243
 Van Rhijn, J. A., Traag, W. A., Van de Spreng, P. F. and Tuinstra, L. G. M. T.
 Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography-high-resolution mass spectrometry 630(1993)297
 Van Riel, J. A. M., see Tienstra, P. A. 608(1992)357
 Van Rossum, H. J., see Van Ginkel, L. A. 624(1992)389
 Van Schaick, E. A., see Mathôt, R. A. A. 620(1993)113
 Van Schepdael, A., Vandeweyer, M., Van Aerschot, A., Herdewijn, P., Roets, E. and Hoogmartens, J.
 Separation of the anomers and isomers of 2'-deoxyuridine and thymidine by capillary zone electrophoresis 648(1993)299
 Van Sommeren, A. P. G., Machielsen, P. A. G. M. and Gribnau, T. C. J.
 Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23
 Van Stevenhagen, J. J., see Van Hoof, H. J. C. 621(1993)33
 Van Tellingen, O., see Van Gijn, R. 614(1993)299
 Van 't Klooster, G. A. E., see Alvinerie, M. 612(1993)115
 Van Tol, J. B. A., see Geerlof, A. 648(1993)119
 Van Veelen, P. A., Tjaden, U. R., Van der Greef, J., Ingendoh, A. and Hillenkamp, F.
 Off-line coupling of capillary electrophoresis with matrix-assisted laser desorption mass spectrometry 647(1993)367
 Van Vliet, L. A., see Scheepers, P. T. J. 619(1993)215
 Van Wassenaar, P. D., see Van Dongen, W. D. 647(1993)301
 Van Zijtveld, J., see Krauwinkel, W. J. J. 617(1993)334
 Van Zoonen, P.
 Trace and ultratrace analysis by HPLC (by S. Ahuja) (Book Review) 637(1993)116
 Van Zoonen, P., see Hogendoorn, E.A. 644(1993)307
 Van Zoonen, P., see Liem, A. K. D. 624(1992)317
 Van Zoonen, P., see Van der Hoff, G. R. 644(1993)367
 Varady, L., Mu, N., Yang, Y.-B., Cook, S. E., Afeyan, N. and Regnier, F. E.
 Fimbriated stationary phases for proteins 631(1993)107
 Varanasi, U., see Krahn, M. M. 642(1993)15
 Varazini, F., see Amelio, M. 606(1992)179
 Varfalvy, L., see Gagné, J. P. 647(1993)13
 Varfalvy, L., see Gagné, J. P. 647(1993)21
 Varghese, J. and Cole, R. B.
 Optimization of capillary zone electrophoresis-electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303
 Várkonyi, A., see Benedek, K. 627(1992)51
 Varney, M. S., see Bianchi, A. P. 643(1992)11
 Vary, T. C., see Drnevich, D. 613(1993)137
 Vasser, M., see Cacia, J. 634(1993)229
 Vatieer, J., see Pasquier, M.-C. 614(1993)27
 Vaughan, W. P., see Rimerman, R. A. 619(1993)29
 Vaughn, W. H., see Cornwell, P. E. 617(1993)136
 Vedres, D. D., see Taylor, W. G. 645(1993)393
 Veening, H., see Cichy, M. A. 613(1993)15
 Vefring, H. K. and Osland, A.
 Simple device for electroelution of proteins from a large number of pieces of polyacrylamide gel 635(1993)329
 Vela, N. P. and Caruso, J. A.
 Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337
 Velander, W. H., see Kaster, J. A. 648(1993)79
 Velásquez, R., see Tsikas, D. 614(1993)37
 Velásquez, R., Tsikas, D. and Brunner, G.
 Analytical capillary isotachopheresis of bis(2-ethylhexyl) hydrogenphosphate and 2-ethylhexyl dihydrogenphosphate 639(1993)317
 Velders, D. D., see Scheepers, P. T. J. 619(1993)215
 Velez, G. R., see Raymer, J. H. 619(1993)223
 Velleman, M. and Parbus, S.
 Purification of the C1 repressor of bacteriophage P1 by fast protein liquid chromatography 625(1992)41
 Venema, E., see Van Asten, A. C. 644(1993)83
 Veningerová, M., Prachar, V., Lukácsová, M., Glasa, J. and Holomáň, J.
 Rapid determination of sparteine and its metabolites in urine 622(1993)274
 Venkataram, S., see Geda, A. 635(1993)338
 Venkataraman, L. V., see Sujata, V. 624(1992)497
 Venkatramani, C. J., see Pinkston, J. D. 622(1993)209
 Venn, R. F., see Lewis, J. R. E. 615(1993)37
 Ventriglia, M., see Di Muccio, A. 643(1993)363
 Ventura, F., see Galceran, M. T. 643(1993)399
 Ventura, K., Dostál, M. and Churáček, J.
 Retention characteristics of some volatile compounds on Tenax GR 642(1993)379
 Ventura, P., see Rondelli, I. 612(1993)95
 Ventura, R., Nadal, T., Alcalde, P. and Segura, J.
 Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203
 Vera, S., see García, M. A. 646(1993)297
 Verbeke, N., see D'Hulst, A. 608(1992)275
 Verdejo, T., see Martin, F. 607(1992)377
 Vereshchagin, A. G., see Pchelkin, V. P. 603(1992)213
 Vergori, L., see Di Muccio, A. 643(1993)363
 Verhagen Kamerbeek, W. D. J., see Wolthers, B. G. 622(1993)33
 Verheggen, T. P. E. M.
 Foreword 608(1992)1
 Verheggen, T.P.E.M. and Everaerts, F.M.
 Equipment for multifunctional use in high-performance capillary electrophoresis 638(1993)147
 Verma, R. K., see Gupta, M. M. 637(1993)209
 Vermeulen, B. W. M., see Damm, J. B. L. 608(1992)297
 Vermorken, J. B., see Van Gijn, R. 614(1993)299

- Verne-Mismer, J., Lamard, M. and Wagner, J.
Evaluation of deactivated reversed phases for the analysis of an N,N,N-trimethylethanaminium analogue of α -tocopherol. Application to its purity control and determination in biological samples 645(1993)251
- Veronese, M. E., see Andersson, T. 619(1993)291
- Veronese, M. E., see Tassaneeyakul, W. 616(1993)73
- Verpoorte, R., see Meijer, A. H. 635(1993)237
- Versini, G., see Pastore, P. 634(1993)47
- Versluis, C., see Van Dongen, W. D. 647(1993)301
- Versluis-de Haan, G. G., see Van der Poll, J. M. 643(1993)163
- Vervoort, R. J. M., Maris, F. A. and Hindriks, H.
Comparison of high-performance liquid chromatographic methods for the analysis of basic drugs 623(1992)207
- Verweij, A., see Kientz, C. E. 626(1992)59
- Verweij, A., see Kientz, C. E. 626(1992)71
- Verweij, J., see Schellens, J. H. M. 615(1993)309
- Verwey-van Wissen, C. P. W. G. M., see Vree, T. B. 616(1993)271
- Vesell, E. S., see Seaton, M. J. 621(1993)49
- Vespalec, R., see Šimek, Z. 629(1993)153
- Vespalec, R., Šustáček, V. and Boček, P.
Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255
- Vessman, J., see Gyllenhaal, O. 628(1993)275
- Vestal, M., see Teffera, Y. 620(1993)89
- Vezzani, S., see Castello, G. 635(1993)103
- Vezzani, S., see Castello, G. 646(1993)361
- Viala, A., see Rop, P. P. 612(1993)302
- Viala, A., see Rop, P. P. 615(1993)357
- Viano, I., see Da Col, R. 633(1993)119
- Viano, I., see Da Col, R. 647(1993)289
- Vicente, C., see Estrella Legaz, M. 607(1992)245
- Vicente, F., see Berrueta, L. A. 616(1993)344
- Vidyasagar, D., see Wielbo, D. 615(1993)164
- Viel, C., see Pothier, J. 634(1993)356
- Vigh, G., see Beeson, M. D. 634(1993)197
- Vigh, G., see Camacho-Torralba, P. L. 641(1993)31
- Vigh, G., see Camacho-Torralba, P. L. 646(1993)259
- Vigh, G., see Cruzado, I.D. 608(1992)421
- Vigh, G., see Farkas, G. 645(1993)67
- Vigh, G., see Rawjee, Y. Y. 635(1993)291
- Vijayalakshmi, M. A., see El-Kak, A. 604(1992)29
- Vijayalakshmi, M. A., see Haupt, K. 644(1993)289
- Vijayalakshmi, M. A., see Mandjiny, S. 616(1993)189
- Vilanova, E., see Díaz-Alejo, N. 622(1993)179
- Vilenchik, L. Z., Asrar, J., Ayotte, R. C., Ternorutsky, L. and Hardiman, C. J.
Macromolecular porosimetry 648(1993)9
- Vilenchik, M., see Cohen, A. S. 638(1993)293
- Villa, L., see Pallavicini, M. 604(1992)197
- Villani, C., see Gallinella, B. 639(1993)193
- Villani, C., see Gasparri, F. 633(1993)81
- Villanueva-Camañas, R. M., see Torres-Lapasió, J. R. 639(1993)87
- Villard, F., see Morin, P. 628(1993)153
- Villard, F., see Morin, P. 628(1993)161
- Villaseñor, S. R.
Matrix elimination in ion chromatography by "heart-cut" column-switching techniques 602(1992)155
- Villén, J., see Señoráns, F. J. 648(1993)407
- Villén, T., see Aden Abdi, Y. 612(1993)336
- Vincent, F., see Jourdil, N. 613(1993)59
- Vincentelli, R. and Bihoreau, N.
Characterization of each isoform of a F(ab')₂ by capillary electrophoresis 641(1993)383
- Vincenti, M., see Sarzanini, C. 620(1993)268
- Vincken, J. -P., see Tinke, A. P. 647(1993)279
- Vindevoegel, J., see Korman, M. 645(1993)366
- Vink-Blijleven, N., see Titulaer, H. A. C. 612(1993)331
- Vinš, I. and Saari-Nordhaus, R.
Anion chromatography on hydroxyethyl methacrylate-based sorbents 640(1993)49
- Vinther, A., Petersen, J. and Søbørg, H.
Capillary electrophoretic determination of the protease Savinase in cultivation broth 608(1992)205
- Virelizier, H., see Sadoun, F. 647(1993)351
- Virtanen, V. and Lajunen, L. H. J.
High-performance liquid chromatographic method for simultaneous determination of clodronate and some clodronate esters 617(1993)291
- Visser, T., see Van Ginkel, L. A. 624(1992)389
- Vistelle, R., see Lamiabie, D. 620(1993)273
- Vistelle, R., see Trenque, T. 615(1993)343
- Visy, J., see Fitos, I. 609(1992)163
- Vlasáková, V., Tolman, V. and Živný, K.
Gas chromatographic separation of diastereoisomeric and enantiomeric forms of some fluorinated amino acids on glass capillary columns 639(1993)273
- Vlašičová, E., see Buzinkaiová, T. 638(1993)231
- Vlatakis, G., see Pozidis, C. 630(1993)151
- Vleggaar, R., see Shephard, G. S. 641(1993)95
- Vliegthart, J. F. G., see Kragten, E. A. 623(1992)49
- Vodný, Š., see Matisová, E. 629(1993)309
- Voelkel, A.
Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships 623(1992)83
- Voelkel, A. and Janas, J.
Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141
- Vogels, G. D., see Van Alebeek, G.-J. W. M. 606(1992)65
- Volgin, Y. V., see Chlenov, M. A. 631(1993)261
- Volk, K. J., see Liu, J. 632(1993)45
- Volkers-Kamermans, N. J., see Krauwinkel, W. J. J. 617(1993)334
- Volkman, J. K., Holdsworth, D. G. and Richardson, D. E.
Determination of resin acids by gas chromatography and high-performance liquid chromatography in paper mill effluent, river waters and sediments from the upper Derwent Estuary, Tasmania 643(1993)209
- Volland, C., see Neidlein, R. 616(1993)129
- Vollek, V., see Karovičová, J. 638(1993)241
- Vollert, H., see Jacob, L. R. 625(1992)47
- Vollhardt, D., see Czichocki, G. 604(1992)213
- Volmer, D., Preiss, A., Levsen, K. and Wünsch, G.
Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

- Volpi, N.
Characterization of heparins with different relative molecular masses (from 11600 to 1600) by various analytical techniques 622(1993)13
- Volpi, N. and Bolognani, L.
Glycosaminoglycans and proteins: different behaviours in high-performance size-exclusion chromatography 630(1993)390
- Voncken, P., see Rustemeier, K. 613(1993)95
- Von Tungeln, L. S., see Fu, P. P. 642(1993)107
- Voogt, W. H., see Debets, A. J. J. 608(1992)151
- Voorhees, K. J., see Murugaverl, B. 633(1993)195
- Voragen, A. G. J., see Niessen, W. M. A. 647(1993)319
- Voragen, A. G. J., see Van der Hoeven, R. A. M. 627(1992)63
- Vorauer, K., Skias, M., Trkola, A., Schulz, P. and Jungbauer, A.
Scale-up of recombinant protein purification by hydrophobic interaction chromatography 625(1992)33
- Votavová, H., see Plešek, J. 633(1993)73
- Vouros, P., see Yeung, B. 645(1993)115
- Voyksner, R. D., see Straub, R. 627(1992)173
- Voyksner, R. D., see Straub, R. F. 647(1993)167
- Voyksner, R. D., see Tyczkowska, K. L. 614(1993)123
- Vree, T. B., see De Groot, A. N. J. A. 613(1993)158
- Vree, T. B., Van den Biggelaar-Martea, M. and Verwey-van Wissen, C. P. W. G. M.
Determination of indomethacin, its metabolites and their glucuronides in human plasma and urine by means of direct gradient high-performance liquid chromatographic analysis. Preliminary pharmacokinetics and effect of probenecid 616(1993)271
- Vreeken, R. J., see Barceló, D. 647(1993)271
- Vreuls, J. J., Ghijsen, R. T., De Jong, G. J. and Brinkman, U. A. T.
Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237
- Vrkoč, J., see Koutek, B. 626(1992)215
- Vučković, G., see Janjić, T. J. 626(1992)305
- Vučković, G., Miljević, D., Janjić, T. J. and Čelap, M. B.
Salting-out thin-layer chromatography of transition metal complexes. I. Investigation of the behaviour of mixed aminocarboxylato cobalt(III) complexes on silica gel 609(1992)427
- Vuillaume, G., see Renaud, J. M. 604(1992)243
- Wada, H., see Haginaka, J. 620(1993)199
- Wada, H., see Haginaka, J. 631(1993)183
- Wada, K., Bando, H. and Kawahara, N.
Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 644(1993)43
- Wafelman, A. R., Nortier, Y. L. M., Rosing, H., Underberg, W. J. M., Maes, R. A. A. and Beijnen, J. H.
High-performance liquid chromatographic determination of *m*-iodobenzylguanidine in urine of cancer patients 622(1993)71
- Wagh, J. S., Mokashi, A. A. and Datta, A.
High-performance liquid chromatographic method for the monitoring of the synthesis of the precursor for tetramisole 646(1993)428
- Wagner, E., see Deppert, W. R. 625(1992)13
- Wagner, H., see Antus, S. 603(1992)133
- Wagner, J., see Kunath, A. 634(1993)119
- Wagner, J., see Verne-Mismser, J. 645(1993)251
- Wagner, P., see Bächmann, K. 643(1993)181
- Wahl, H. G., see Liebich, H. M. 626(1992)289
- Wainer, I. W., see Alebić-Kolbah, T. 646(1993)289
- Wainer, I. W., see Gimenez, F. 619(1993)161
- Wainer, I. W., see Granville, C. P. 622(1993)21
- Wainer, I. W., see Kaliszan, R. 609(1992)69
- Wainer, I. W., see Kaliszan, R. 615(1993)281
- Wakabayashi, H., see Nakajima, M. 641(1993)176
- Waksmundzka-Hajnos, M.
Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15
- Waldron, K. C., see Zhao, J. Y. 608(1992)239
- Walenius, M., Flodin, P. and Porath, J.
Reactive carriers for the immobilization of copper ions 604(1992)5
- Walhagen, A., see Wännman, H. 603(1992)121
- Walker, C. C., see Barker, S. A. 624(1992)195
- Walker, C. C., Lott, H. M. and Barker, S. A.
Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225
- Walker, T. A.
Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97
- Walker, T. A.
Separation of Beraprost sodium isomers using different cyclodextrin stationary phases 633(1993)97
- Walker, T. A., see Sly, L. A. 641(1993)249
- Walker, V., see Stansbridge, E. M. 621(1993)7
- Wall, W. T., see Reid, III, G. L. 633(1993)135
- Wall, W. T., see Reid, III, G. L. 633(1993)143
- Walle, T., see Eller, T. D. 612(1993)320
- Walle, U. K., see Eller, T. D. 612(1993)320
- Wallis, A. F. A., see Smith, T. J. 648(1993)289
- Walsh, A. R., see Altria, K. D. 645(1993)193
- Walsh, D. P., see Abraham, M. H. 627(1992)294
- Walter, H., Raymond, F. D. and Fisher, D.
Erythrocyte partitioning in dextran-poly(ethylene glycol) aqueous phase systems. Events in phase and cell separation 609(1992)219

W

- Walter, H., Widen, K. E. and Birkenmeier, G.
Immobilized metal ion affinity partitioning of erythrocytes from different species in dextran-poly(ethylene glycol) aqueous phase systems 641(1993)279
- Walters, R. R., see Hsu, C.-Y. L. 629(1993)61
- Walther, B., see Bakes, D. M. 615(1993)117
- Walton, M., see Raynaud, F. 622(1993)243
- Wan, H., Wang, Y., Ou, Q. and Yu, W.
Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202
- Wan, T. S. M., see Chee, G. L. 612(1993)172
- Wang, E., see Zhou, J. 619(1993)103
- Wang, H., Gen, T., Fu, R., Zhu, J., Wei, X., Li, H. and Liu, J.
Gas chromatographic separation of polycyclic aromatic hydrocarbons on a mesomorphic copolysiloxane stationary phase 609(1992)414
- Wang, H., see Mou, S. 640(1993)161
- Wang, J., see Huang, Z.-H. 635(1993)271
- Wang, J.-Y., see Jin, J.-Z. 614(1993)159
- Wang, L., see Chen, N. 644(1993)175
- Wang, P., see Yeung, E. S. 608(1992)73
- Wang, Q., see Liu, Y. 644(1993)73
- Wang, Q., see Lou, X. 626(1992)231
- Wang, Q., see Wu, Y. 648(1993)491
- Wang, Q.-S., Gao, R.-Y. and Yan, B.-W.
Optimization of the separation of technical aldicarb by semi-preparative reversed-phase high-performance liquid chromatography 628(1993)127
- Wang, R. Y., see Chu, P.-S. 620(1993)129
- Wang, T. and Hartwick, R. A.
Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119
- Wang, Y., see Wan, H. 644(1993)202
- Wang, Y.-C. and Whang, C.-W.
High-performance liquid chromatography of inorganic mercury and organomercury with 2-mercaptobenzothiazole 628(1993)133
- Wang, Z. and Fingas, M.
Rapid separation of non-ionic surfactants of polyethoxylated octylphenol and determination of ethylene oxide oligomer distribution by C1 column reversed-phase liquid chromatography 637(1993)145
- Wang, Z. and Fingas, M.
Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125
- Wang, Z., see Fu, C. 634(1993)221
- Wännman, H., Walhagen, A. and Erlandsson, P.
Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121
- Warner, I. M., see Husain, N. 635(1993)211
- Watabe, K., see Sato, K. 629(1993)291
- Watabiki, T., see Yoshida, M. 628(1993)235
- Watanabe, K., see Hirokawa, T. 633(1993)251
- Watanabe, K., see Kajita, M. 613(1993)1
- Watanabe, K., see Kajita, M. 622(1993)263
- Watanabe, S., see Seki, S. 618(1993)147
- Watanabe, T., see De Felice, C. 645(1993)101
- Watanabe, T., see Hayakawa, K. 616(1993)327
- Watanabe, T., see Hayakawa, K. 620(1993)25
- Watanabe, T., see Uchida, T. 613(1993)179
- Watanabe, Y., see Lundahl, P. 604(1992)95
- Watanabe, Y., see Naito, K. 604(1992)225
- Watkins, P. J. and Gorrod, J. W.
Determination of isomeric N-oxide metabolites of some substituted 2,4-diaminopyrimidines by reversed-phase ion-pair high-performance liquid chromatography 616(1993)79
- Watson, D. G., see Zhou, P. 617(1993)11
- Watson, E. and Kenney, W. C.
Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165
- Watson, E., see Shah, B. 629(1993)398
- Watson, E. and Yao, F.
Capillary electrophoretic separation of recombinant granulocyte-colony-stimulating factor glycoforms 630(1993)442
- Watson, J. T., see Huang, Z.-H. 635(1993)271
- Wätzig, H. and Dette, C.
Precise quantitative capillary electrophoresis. Methodological and instrumental aspects 636(1993)31
- Wear, T. J., see Bamford, C. H. 606(1992)19
- Wearne, R. H., see Smith, T. J. 648(1993)289
- Weber, L., see Keating, K. M. 631(1993)269
- Weber, L., see Schäfer, F. 620(1993)239
- Weber, P. L., see O'Shea, T. J. 608(1992)189
- Weber, S. G., Tsai, H. and Sandberg, M.
Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1
- Weerasinghe, C. A., see Chu, P.-S. 620(1993)129
- Wehmeyer, K. R., see Pinkston, J. D. 622(1993)209
- Wehr, T., see Zhu, M. 608(1992)225
- Wei, W., Wu, N. S. and Jiang, X. H.
New approach for area determination of an overlapped pair of chromatographic peaks 623(1992)366
- Wei, X., see Wang, H. 609(1992)414
- Weidolf, L., see Andersson, T. 619(1993)291
- Weimann, A., see Joergensen, L. 602(1992)179
- Weinmann, W., Baumeister, K., Kaufmann, I. and Przybylski, M.
Structural characterization of polypeptides and proteins by combination of capillary electrophoresis and ^{252}Cf plasma desorption mass spectrometry 628(1993)111
- Weir, D., see McNulty, H. 614(1993)59
- Weiss, C. S., Hazlett, J. S., Datta, M. H. and Danzer, M. H.
Determination of quaternary ammonium compounds by capillary electrophoresis using direct and indirect UV detection 608(1992)325
- Weiss, G., see Baeyens, W. 638(1993)319
- Weiss, J., see Jensen, D. 640(1993)65
- Weistrand, C. and Norén, K.
Liquid-gel partitioning using Lipidex in the determination of polychlorinated biphenyls in cod liver oil 630(1993)179

- Weisz, A., Scher, A. L., Andrzejewski, D., Shibusawa, Y. and Ito, Y.
Complementary use of counter-current chromatography and preparative reversed-phase high-performance liquid chromatography in the separation of a synthetic mixture of brominated tetrachlorofluoresceins 607(1992)47
- Welch, C. J., see Pirkle, W. H. 607(1992)126
- Welch, C. J. and Pirkle, W. H.
Progress in the design of selectors for buckminsterfullerene 609(1992)89
- Welch, C. J., see Pirkle, W. H. 639(1993)329
- Welch, C. J., see Pirkle, W. H. 648(1993)101
- Welch, L. E., see Kirchmann, E. 633(1993)111
- Welham, K. J., see Hamedani, M. P. 619(1993)191
- Welinder, B. S., see Linde, S. 614(1993)185
- Welink, J., see Klein, I. 622(1993)249
- Welling, G. W., see Welling-Wester, S. 646(1993)37
- Welling-Wester, S., Feijlbrief, M., Koedijk, D. G. A. M., Braakma, M. A., Douma, B. R. K. and Welling, G. W.
Effect of different amounts of the non-ionic detergents C₁₀E₅ and C₁₂E₅ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37
- Welte, W., see Ritter, S. 625(1992)21
- Wen, K.-C., Huang, C.-Y. and Lu, F.-L.
Determination of baicalin and puerarin in traditional Chinese medicinal preparations by high-performance liquid chromatography 631(1993)241
- Wenclawiak, B., see Paschke, T. 609(1992)333
- Wentworth, M., see O'Brien, T. 613(1993)239
- Wenzel, T. J., Townsend, K. J., Frederique, D. E. and Baker, A. G.
Supercritical fluid extraction of metal-containing selective sorbents 637(1993)187
- Wermeille, M., see Chollet, D. 629(1993)89
- Wermeille, M., see Kauert, G. 617(1993)318
- Werner, A.
Reversed-phase and ion-pair separations of nucleotides, nucleosides and nucleobases: analysis of biological samples in health and disease (Review) 618(1993)3
- Werner, G., see Aitzetmüller, K. 603(1992)165
- Wernly, P. and Thormann, W.
Confirmation testing of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in urine with micellar electrokinetic capillary chromatography 608(1992)251
- Wernly, P., see Thormann, W. 636(1993)137
- Wernly, P., Thormann, W., Bourquin, D. and Brenneisen, R.
Determination of morphine-3-glucuronide in human urine by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 616(1993)305
- Wesén, C., Mu, H., Kvernheim, A. L. and Larsson, P.
Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection 625(1992)257
- Wessels, H. M. C., see Kuypers, A. W. H. M. 621(1993)149
- Westcott, A. M., see Eganhouse, R. P. 628(1993)81
- Westerberg, G., Lundqvist, H., Kilár, F. and Långström, B.
 β^+ -Selective radiodetector for capillary electrophoresis 645(1993)319
- Westerlund, D., see Fornstedt, T. 648(1993)315
- Westerlund, D., see Stefansson, M. 632(1993)195
- Weston, A., Brown, P. R., Heckenberg, A. L., Jandik, P. and Jones, W. R.
Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249
- Weston, A., Brown, P. R., Jandik, P., Heckenberg, A. L. and Jones, W. R.
Optimization of detection sensitivity in the analysis of inorganic cations by capillary ion electrophoresis using indirect photometric detection 608(1992)395
- Weston, A., see Koberda, M. 602(1992)235
- Whang, C.-W., see Chen, I.-C. 644(1993)208
- Whang, C.-W., see Wang, Y.-C. 628(1993)133
- Whattam, M. M., see Garner, R. C. 648(1993)485
- Wheatley, J. B.
Multiple ligand applications in high-performance immunoaffinity chromatography 603(1992)273
- Wheatley, J. B. and Schmidt Jr., D. E.
Salt-induced immobilization of proteins on a high-performance liquid chromatographic epoxide affinity support 644(1993)11
- White, G., Katona, T., Zodda, J. P. and Eakins, M. N.
Determination of the impurity profile of γ -cyclodextrin by high-performance liquid chromatography 625(1992)157
- Wichmann, J. K., see Romanyshyn, L. A. 622(1993)223
- Wichmann, J. K., see Romanyshyn, L. A. 622(1993)229
- Wichtl, M., see Wiegrebe, H. 630(1993)402
- Widen, K. E., see Walter, H. 641(1993)279
- Widiastuti, R., Haddad, P. R. and Jackson, P. E.
Approaches to gradient elution in ion-exclusion chromatography of carboxylic acids 602(1992)43
- Wiederin, D. R., see Gjerde, D. T. 640(1993)73
- Wiegrebe, H. and Wichtl, M.
High-performance liquid chromatographic determination of cardenolides in *Digitalis* leaves after solid-phase extraction 630(1993)402
- Wieland, G., see Cabrera, K. 644(1993)396
- Wielbo, D., Bhat, R., Chari, G., Vidyasagar, D., Tebbett, I. R. and Gulati, A.
High-performance liquid chromatographic determination of morphine and its metabolites in plasma using diode-array detection 615(1993)164
- Wieling, J., Coenegracht, P. M. J., Doornbos, D. A. and Jonkman, J. H. G.
Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195
- Wieling, J., Dijkstra, H., Mensink, C. K., Jonkman, J. H. G., Coenegracht, P. M. J., Duineveld, C. A. A. and Doornbos, D. A.
Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181
- Wierda, J. M. K. H., see Kleef, U. W. 621(1993)65
- Wieser, R. J., see Schaumann, C. 646(1993)227
- Wijnant, P., see Laethem, M. E. 621(1993)225
- Wijnant, P., see Rosseel, M. T. 615(1993)154

- Wijsbeek, J., see Chen, X.-H. 613(1993)289
 Wijsbeek, J., see Chen, X.-H. 617(1993)147
 Wijsbeek, J., see Chen, X.-H. 619(1993)137
 Wijssen, C., see Hendrix, C. 628(1993)49
 Wijssen, C., see Hendrix, C. 634(1993)257
 Wilce, M. C. J., Aguilar, M. I. and Hearn, M. T. W.
 High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11
 Wilde, N. D., see Debowski, J. K. 639(1993)338
 Wilder, D. R., see Tindall, G. W. 641(1993)163
 Wilder, D. R., Tindall, G. W., Cunningham, L. J. and Little, J. L.
 High-performance liquid chromatographic analysis of sulfonated aromatics using a β -cyclodextrin-bonded phase 635(1993)221
 Willfert, B., see Belsner, K. 629(1993)123
 Wilhelmi, B. S., see Stanley, S. M. R. 614(1993)77
 Wilhelmi, B. S., see Stanley, S. M. R. 620(1993)250
 Wilkins, C. L., see Krock, K. A. 645(1993)153
 Willems, P. M. W., see Kuypers, A. W. H. M. 621(1993)149
 Willey, T. A., Bekos, E. J., Gaver, R. C., Duncan, G. F., Tay, L. K., Beijnen, J. H. and Farmen, R. H.
 High-performance liquid chromatographic procedure for the quantitative determination of paclitaxel (Taxol[®]) in human plasma 621(1993)231
 Williams, P. S., see Giddings, J. C. 627(1992)23
 Williams, R. S., see Hamilton, C. L. 613(1993)365
 Williams, S. J., Bergström, E. T., Goodall, D. M., Kawazumi, H. and Evans, K. P.
 Diode laser-based indirect absorbance detector for capillary electrophoresis 636(1993)39
 Williams, S. J., Goodall, D. M. and Evans, K. P.
 Analysis of anthraquinone sulphonates. Comparison of capillary electrophoresis with high-performance liquid chromatography 629(1993)379
 Willmott, N., see Cummings, J. 612(1993)105
 Willsch, H., see Budzinski, H. 627(1992)227
 Wils, E. R. J., Hulst, A. G. and De Jong, A. L.
 Determination of mustard gas and related vesicants in rubber and paint by gas chromatography-mass spectrometry 625(1992)382
 Wilson, D. M., see Holcomb, M. 624(1992)341
 Wilson, I. D., Nicholson, J. K., Hofmann, M., Spraul, M. and Lindon, J. C.
 Investigation of the human metabolism of antipyrine using coupled liquid chromatography and nuclear magnetic resonance spectroscopy of urine 617(1993)324
 Wilson, I. D., see Shim, J.-H. 639(1993)281
 Wilson, J. B., Brennan, S. O., Allen, J., Shaw, J. G., Gu, L.-H. and Huisman, T. H. J.
 The M_γ chain of human fetal hemoglobin is an Λ _γ chain with an *in vitro* modification of γ 141 leucine to hydroxyleucine 617(1993)37
 Wilson, R. and Sargent, J. R.
 High-resolution separation of polyunsaturated fatty acids by argantation thin-layer chromatography 623(1992)403
 Wilson, T. D., Jump, W. G., Neumann, W. C. and San Martin, T.
 Validation of improved methods for high-performance liquid chromatographic determination of phenylpropanolamine, dextromethorphan, guaifenesin and sodium benzoate in a cough-cold formulation 641(1993)241
 Windsor, B. L., Radulovic, L. L., Bockbrader, H. N. and Chang, T.
 Measurement of CI-979 (a candidate drug for the treatment of age-related disorders of cognition) in human plasma by capillary gas chromatography with nitrogen-selective detection 619(1993)315
 Wingren, C., Hansson, U.-B. and Andersson, K.
 Supports for liquid-liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73
 Winter, C. H., Hoving, E. B. and Muskiet, F. A. J.
 Fatty acid composition of human milk triglyceride species. Possible consequences for optimal structures of infant formula triglycerides 616(1993)9
 Winzor, D. J., see Booth, C. K. 609(1992)83
 Winzor, D. J., see Munro, P. D. 646(1993)3
 Wirth, C., see Liebich, H. M. 626(1992)289
 Wirth, H. -J., Eriksson, K. -O., Holt, P., Aguilar, M. and Hearn, M. T. W.
 High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129
 Wirth, H. -J. and Hearn, M. T. W.
 High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143
 Wise, S. A., see Budzinski, H. 627(1992)227
 Wise, S. A., Sander, L. C. and May, W. E.
 Determination of polycyclic aromatic hydrocarbons by liquid chromatography 642(1993)329
 Wisted, E. E., see Schmidt, L. 641(1993)57
 Witte, D. T., Ahnoff, M., Karlsson, K. -E., Franke, J. -P. and De Zeeuw, R. A.
 Liquid chromatographic chiral separations of the N-6-(endo-2-norbornyl)-9-methyladenine enantiomers 641(1993)39
 Wojciechowski, F., see Lacroix, C. 617(1993)285
 Wojtusik, M. J., see Harrold, M. P. 640(1993)463
 Wolfender, J. L. and Hostettmann, K.
 Liquid chromatographic-UV detection and liquid chromatographic-thermospray mass spectrometric analysis of *Chironia* (Gentianaceae) species. A rapid method for the screening of polyphenols in crude plant extracts 647(1993)191
 Wolfender, J. L., Maillard, M. and Hostettmann, K.
 Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183
 Wolfender, J.-L., see Maillard, M. P. 647(1993)147
 Wöll, J., see Liebich, H. M. 626(1992)289
 Wolnik, K. A., see Kaine, L. A. 602(1992)141
 Wolterbeek, H. T., see Steinebach, O. M. 619(1993)199

- Wolthers, B. G., Verhagen Kamerbeek, W. D. J., Van Beusekom, C. M., Elshof, F., De Ruyter Buitenhuis, A. W., Brunt, E. P. R. and Lakke, J. P. W. F.
Quantitative determination of the dopamine agonist lisuride in plasma using high-performance liquid chromatography with fluorescence detection 622(1993)33
- Wong, C. F., see Bauer, J. F. 648(1993)175
- Wong, J. T.-F., see Xue, H. 613(1993)247
- Wong, S. C., see Leonard, S. A. 645(1993)189
- Woo, C. S., see Zaromb, S. 643(1993)107
- Woo, K.-L. and Chang, D.-K.
Determination of 22 protein amino acids as N(O)-*tert*-butyldimethylsilyl derivatives by gas chromatography 638(1993)97
- Woodcock, E. A., Anderson, K. E. and Land, S. L.
Lyophilization can generate artifacts in chromatographic profiles of inositol phosphates 619(1993)121
- Worosila, G. D., see Hilser, Jr., V. J. 630(1993)329
- Wren, S. A. C.
Theory of chiral separation in capillary electrophoresis 636(1993)57
- Wren, S. A. C. and Rowe, R. C.
Theoretical aspects of chiral separation in capillary electrophoresis. I. Initial evaluation of a model 603(1992)235
- Wren, S. A. C. and Rowe, R. C.
Theoretical aspects of chiral separation in capillary electrophoresis. II. The role of organic solvent 609(1992)363
- Wren, S. A. C. and Rowe, R. C.
Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113
- Wren, S. A. C., see Survary, M. A. 636(1993)81
- Wright, M. R. and Jamali, F.
Limited extent of stereochemical conversion of chiral non-steroidal anti-inflammatory drugs induced by derivatization methods employing ethyl chloroformate 616(1993)59
- Wrisley, L.
Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191
- Wu, D. and Regnier, F. E.
Sodium dodecyl sulfate-capillary gel electrophoresis of proteins using non-cross-linked polyacrylamide 608(1992)349
- Wu, D., see Yao, X.-W. 636(1993)21
- Wu, G.
Determination of proline by reversed-phase high-performance liquid chromatography with automated pre-column *o*-phthaldialdehyde derivatization 641(1993)168
- Wu, J. and Pawliszyn, J.
Application of capillary isoelectric focusing with universal concentration gradient detector to the analysis of protein samples 608(1992)121
- Wu, N., Horvath, W. J., Sun, P. and Huie, C. W.
Speciation of aluminum using capillary zone electrophoresis with indirect UV detection 635(1993)307
- Wu, N. and Huie, C. W.
Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309
- Wu, N., see Sun, P. 648(1993)475
- Wu, N. S., see Wei, W. 623(1992)366
- Wu, Y., Sun, Y., Gu, Z., Wang, Q., Zhou, X., Xiong, Y. and Jin, Z.
Analysis of C₆₀ and C₇₀ fullerenes by high-performance liquid chromatography 648(1993)491
- Wu, Z., see Ma, Y. 616(1993)31
- Wünsch, G., see Volmer, D. 647(1993)235
- Wurm, M., see Lindner, H. 608(1992)211
- Wyatt, P. J.
Mean square radius of molecules and secondary instrumental broadening 648(1993)27

X

- Xia, W., see Hirokawa, T. 638(1993)215
- Xian, J., see Singhal, R. P. 609(1992)147
- Xianren, Q., Chong-Yu, X. and Baeyens, W.
Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3
- Xin, Y., see Aitzetmüller, K. 603(1992)165
- Xiong, Y., see Wu, Y. 648(1993)491
- Xu, H., see Fu, C. 634(1993)221
- Xu, H. and Lesage, S.
Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139
- Xu, J., see Van Nifterik, L. 640(1993)335
- Xu, X., see Bruin, G. J. M. 608(1992)97
- Xu, Y., see Ingalls, S. T. 619(1993)9
- Xuan, H. T. K. and Lederer, M.
Adsorption chromatography on cellulose. IX. Chiral separations with aqueous solvents and liquid-liquid systems 635(1993)346
- Xue, H., Shen, W. and Wong, J. T.-F.
Purification of hyperexpressed *Bacillus subtilis* tRNA^{Trp} cloned in *Escherichia coli* 613(1993)247

Y

- Yadav, A. and Singh, R. K. P.
Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)-adenosine diphosphate nitrilotriacetate system 606(1992)147
- Yagi, A., see Okamura, N. 630(1993)418
- Yaginuma, T., see Yoshioka, M. 603(1992)223
- Yaguchi, K., see Suzuki, T. 643(1993)173
- Yamada, K., see Akiyama, S. 626(1992)266
- Yamada, K., see Chikuma, T. 635(1993)81
- Yamaguchi, H., see Nishi, H. 633(1993)89
- Yamaguchi, K., see Soga, T. 625(1992)151
- Yamaguchi, M., see Kutsuna, H. 635(1993)187
- Yamaguchi, T., see Shinbo, T. 625(1992)101
- Yamaguchi, Y., see Kuwata, K. 643(1993)25
- Yamamoto, A., Hayakawa, K., Matsunaga, A., Mizukami, E. and Miyazaki, M.
Retention model of multiple eluent ion chromatography. *A priori* estimations of analyte capacity factor and peak intensity 627(1992)17
- Yamamoto, A., Matsunaga, A., Mizukami, E., Hayakawa, K. and Miyazaki, M.
Adsorption isotherm of undissociated eluent acid and its relation to the retention of system peaks in non-suppressed ion chromatography 644(1993)183
- Yamamoto, F. M., see Rokushika, S. 630(1993)195
- Yamamoto, K., see Ito, S. 626(1992)187
- Yamamoto, Y., see Michigami, Y. 623(1992)148
- Yamaoka, T., Yamashita, K. and Itakura, M.
Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345
- Yamashita, J., see Oi, S. 645(1993)17
- Yamashita, K., Motohashi, M. and Yashiki, T.
Sensitive high-performance liquid chromatographic determination of EM523, a new erythromycin derivative, in human plasma and urine with ultraviolet detection using column switching 616(1993)144
- Yamashita, K., see Yamaoka, T. 630(1993)345
- Yamashita, Y., see Kuwata, K. 643(1993)25
- Yamato, S., see Nakajima, M. 641(1993)176
- Yamauchi, K., see Hayakawa, K. 617(1993)29
- Yamauchi, S.
Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61
- Yamazaki, M., see Iwaki, K. 619(1993)319
- Yamazaki, M., see Iwaki, K. 623(1992)153
- Yamazaki, M., see Iwaki, K. 625(1992)353
- Yamazaki, S., see O'Keefe, D. O. 627(1992)137
- Yamazaki, T., Ishikawa, T., Nakai, H., Miyai, M., Tsubota, T. and Asano, K.
Determination of aspoxicillin in broncho-alveolar lavage fluid by high-performance liquid chromatography with photolysis and electrochemical detection 615(1993)180
- Yan, B.-W., see Wang, Q.-S. 628(1993)127
- Yan, C.-T., see Jen, J.-F. 629(1993)394
- Yan, L., see Dang, Q.- 630(1993)363
- Yanagishita, H., see Shinbo, T. 625(1992)101
- Yang, J. and Hage, D. S.
Characterization of the binding and chiral separation of D- and L-tryptophan on a high-performance immobilized human serum albumin column 645(1993)241
- Yang, M.-H. and Lin, J.-Y.
N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165
- Yang, M.-H., see Lin, J.-Y. 644(1993)277
- Yang, Q., see Pirkle, W. H. 639(1993)329
- Yang, S., see Lin, Y. Y. 629(1993)389
- Yang, Y.-B., see Varady, L. 631(1993)107
- Yao, F., see Watson, E. 630(1993)442
- Yao, J. K., see Mallinger, A. G. 614(1993)67
- Yao, X.-W. and Regnier, F. E.
Polymer- and surfactant-coated capillaries for isoelectric focusing 632(1993)185
- Yao, X.-W., Wu, D. and Regnier, F. E.
Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21
- Yao, Y. J., Lee, H. K. and Li, S. F. Y.
Optimization of separation of porphyrins by micellar electrokinetic chromatography using the overlapping resolution mapping scheme 637(1993)195
- Yashiki, T., see Okuda, T. 612(1993)263
- Yashiki, T., see Yamashita, K. 616(1993)144
- Yashima, E., Shiiba, T., Sawa, T., Miyauchi, N. and Akashi, M.
High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111
- Yasuda, T., see Hashimoto, K. 623(1992)386
- Yasuda, T., see Iida, R. 622(1993)9
- Yasumura, Y., see Ikeda, M. 621(1993)133
- Yau, W. W., see Jackson, C. 645(1993)209
- Yau, W. W., Rementer, S. W., Boyajian, J. M., DeStefano, J. J., Graff, J. F., Lim, K. B. and Kirkland, J. J.
Improved computer algorithm for characterizing skewed chromatographic band broadening. II. Results and comparisons 630(1993)69
- Ye, Y. K., see Lamb, J. D. 602(1992)189
- Yeh, C.-F., Chyueh, S.-D., Chen, W.-S., Fang, J.-D. and Liu, C.-Y.
Application of dithiocarbamate resin-metal complexes as stationary phases in gas chromatography 630(1993)275
- Yeh, T.-K., Dalton, J. T. and Au, J. L. -S.
High-performance liquid chromatographic determination of pentamidine in plasma 622(1993)255
- Yeleswaram, K., see Doroudian, A. 619(1993)79
- Yeoman, M. M., see Zarate, R. 609(1992)407

- Yeung, B., Vouros, P. and Satyanarayana Reddy, G.
Characterization of vitamin D₃ metabolites using
continuous-flow fast atom bombardment tandem mass
spectrometry and high-performance liquid
chromatography 645(1993)115
- Yeung, E. S.
A practical guide to HPLC detection (edited by D.
Parriott) (Book Review) 641(1993)203
- Yeung, E. S., see Chang, H.-T. 608(1992)65
- Yeung, E. S., see Chang, H.-T. 632(1993)149
- Yeung, E. S., see Garner, T. W. 640(1993)397
- Yeung, E. S., see Rosenzweig, Z. 645(1993)201
- Yeung, E. S., Wang, P., Li, W. and Giese, R. W.
Laser fluorescence detector for capillary electrophoresis
608(1992)73
- Yi, Z., see De Antonis, K. M. 632(1993)91
- Yip, T.-T., see Hutchens, T. W. 604(1992)125
- Yip, T.-T., see Hutchens, T. W. 604(1992)133
- Ylitalo, G. M., see Krahn, M. M. 642(1993)15
- Yndestad, M., see Hormazabal, V. 616(1993)161
- Yndestad, M., see Hormazabal, V. 648(1993)183
- Yokota, Y., see Hirokawa, T. 633(1993)251
- Yokouchi, Y., Bandow, H. and Akimoto, H.
Development of automated gas chromatographic-mass
spectrometric analysis for natural volatile organic
compounds in the atmosphere 642(1993)401
- Yokoyama, T., see Kato, Y. 616(1993)67
- Yokoyama, Y., Kondo, M. and Sato, H.
Determination of alkylbenzenesulphonates in
environmental water by anion-exchange chromatography
643(1993)169
- Yon, R. J., see Dowd, V. 627(1992)145
- Yonekura, S., Iwasaki, M., Kai, M. and Ohkura, Y.
High-performance liquid chromatography of guanine and
its nucleosides and nucleotides by pre-column
fluorescence derivatization with phenylglyoxal reagent
641(1993)235
- Yoo, J. S. and McGuffin, V. L.
Determination of fatty acids in fish oil dietary
supplements by capillary liquid chromatography with
laser-induced fluorescence detection 627(1992)87
- Yoshida, H., see Kaneta, T. 609(1992)369
- Yoshida, M., see Itagaki, T. 620(1993)149
- Yoshida, M., Watabiki, T., Tokiyasu, T. and Ishida, N.
Determination of paraquat and diquat by liquid
chromatography-thermospray mass spectrometry
628(1993)235
- Yoshida, S., see Hirokawa, T. 633(1993)261
- Yoshida, T.
Determination of *p*-chloronitrobenzene and its
metabolites in urine by reversed-phase high-performance
liquid chromatography 613(1993)79
- Yoshida, T., Honda, A., Tanaka, N., Matsuzaki, Y., He, B.,
Osuga, T., Kobayashi, N., Ozawa, K. and Miyazaki, H.
Simultaneous determination of mevalonate and 7 α -
hydroxycholesterol in human plasma by gas
chromatography-mass spectrometry as indices of
cholesterol and bile acid biosynthesis 613(1993)185
- Yoshida, Y., see Mano, N. 603(1992)105
- Yoshida, Y., see Mano, N. 623(1992)221
- Yoshii, K., see Komatsu, H. 644(1993)17
- Yoshikawa, K., see Hayakawa, K. 617(1993)29
- Yoshimura, Y., Ohnishi, K., Hamamura, M., Oda, T. and
Sohda, T.
Automated high-performance liquid chromatographic
determination of hydroxylysylpyridinoline and
lysylpyridinoline in urine using a column-switching
method 613(1993)43
- Yoshioka, M., Araki, H., Seki, M., Miyazaki, T., Utsuki, T.,
Yaginuma, T. and Nakano, M.
Fluorescence reactions of inorganic cations heated on a
porous glass sheet for thin-layer chromatography
603(1992)223
- Yoshizumi, H., see Kajita, M. 613(1993)1
- Youn, D. Y., Hong, K. B., Jung, K.-H., Kim, D. and Kim,
K.-R.
Direct measurement of the inverse secondary isotope
effects of Rh(I)-C₂H₄ and Rh(I)-C₂H₃D utilizing gas
chromatography 607(1992)69
- Young, C. W., see Muindi, J. R. F. 621(1993)55
- Young, J. C. and Games, D. E.
Supercritical fluid chromatography of *Fusarium*
mycotoxins 627(1992)247
- Young, S. D., see Consalvo, A. P. 607(1992)25
- Youngberg, P., see Koberda, M. 602(1992)235
- Yoza, K.-I., see Ohta, H. 607(1992)154
- Yoza, K.-I., see Ohta, H. 628(1993)199
- Yoza, N., see Nakazato, T. 641(1993)221
- Yu, H., see Rodén, L. 638(1993)29
- Yu, H.-Y. and Liau, J.-K.
Quantitation of propofol in plasma by capillary gas
chromatography 615(1993)77
- Yu, J. and El Rassi, Z.
Reversed-phase liquid chromatography with
microspherical octadecyl-zirconia bonded stationary
phases 631(1993)91
- Yu, L., see Jacob III, P. 619(1993)49
- Yu, W., see Wan, H. 644(1993)202
- Yuan, X. W., see Basak, A. 615(1993)251
- Yun, C., see Mitra, S. 648(1993)415
- Yun, L. M., see Hendrix, C. 628(1993)49
- Yunes, R. A., see Arruda, A. C. 630(1993)251

Z

- Zabarini, L., see Colli, M. 643(1993)51
- Zabel, K., see Benedek, K. 627(1992)51
- Zacharias, W., see Zagariya, A. 648(1993)275

- Zachariou, M., Traverso, I. and Hearn, M. T. W.
High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107
- Zagariya, A., Khrapunov, S. and Zacharias, W.
Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275
- Zambonin, P. G., see Guerrieri, A. 617(1993)71
- Zapardiel, A., see Chicharro, M. 622(1993)103
- Zarate, R., Sukrasno, and Yeoman, M. M.
Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407
- Zare, R. N., see Tsuda, T. 632(1993)201
- Zaromb, S., Alcaraz, J., Lawson, D. and Woo, C. S.
Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography-electrochemical detection 643(1993)107
- Zawistowski, J., see Siemens, K. 609(1992)205
- Zecca, L., Radice, D., Mosca, A. and Pagella, P. G.
Determination of heptylphosphostigmine in plasma by high-performance liquid chromatography with electrochemical detection 615(1993)169
- Zelano, V., see Zerbinati, O. 640(1993)231
- Zelenský, I., see Kaniansky, D. 638(1993)225
- Zerbinati, O., Ostacoli, G., Gastaldi, D. and Zelano, V.
Determination and identification by high-performance liquid chromatography and spectrofluorimetry of twenty-three aromatic sulphonates in natural waters 640(1993)231
- Zgonnik, V. N., see Belenkii, B. G. 609(1992)355
- Zhang, B., see Frey, D. D. 603(1992)43
- Zhang, C.-X., Sun, Z.-P., Ling, D.-K. and Zhang, Y.-J.
Separation of tetracycline and its degradation products by capillary zone electrophoresis 627(1992)281
- Zhang, C.-X., Sun, Z.-P., Ling, D.-K., Zheng, J.-S., Guo, J. and Li, X.-Y.
Determination of 3-methylflavone-8-carboxylic acid, the main metabolite of flavoxate, in human urine by capillary electrophoresis with direct injection 612(1993)287
- Zhang, J. Z., see Deng, Z. 626(1992)159
- Zhang, J. Z., see Harke, H. R. 608(1992)143
- Zhang, J. Z., see Zhao, J. Y. 608(1992)239
- Zhang, L., see Zhou, J. 619(1993)103
- Zhang, R., see Ma, Y. 608(1992)93
- Zhang, R., see Ma, Y. 625(1992)341
- Zhang, R., see Sun, Y. 648(1993)395
- Zhang, R., Zhang, Z., Liu, G., Hidaka, Y. and Shimonishi, Y.
High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45
- Zhang, T., see Félix, G. 639(1993)141
- Zhang, X., Martire, D. E. and Christensen, R. G.
Characterization of a supercritical fluid chromatographic retention process with a large pressure drop by the temporal average density 603(1992)193
- Zhang, Y., see Chen, N. 603(1992)35
- Zhang, Y., see Chen, N. 606(1992)1
- Zhang, Y., see Chen, N. 633(1993)31
- Zhang, Y., see Chen, N. 644(1993)175
- Zhang, Y., Dallas, A. J. and Carr, P. W.
Critical comparison of gas-hexadecane partition coefficients as measured with packed and open tubular capillary columns 638(1993)43
- Zhang, Y., see Fu, P. P. 642(1993)107
- Zhang, Y., see Zou, H. 625(1992)169
- Zhang, Y., see Zou, H. 644(1993)269
- Zhang, Y. A., see Adamek, V. 625(1992)91
- Zhang, Y.-J., see Zhang, C.-X. 627(1992)281
- Zhang, Z., Malikin, G. and Lam, S.
Novel polymeric reagent for synthesizing 9-fluorenylmethoxycarbonyl L-prolinyl derivatives for chiral high-performance liquid chromatography of amino acids 603(1992)279
- Zhang, Z., Tong, K.-T., Belew, M., Pettersson, T. and Janson, J.-C.
Production, purification and characterization of recombinant human interferon γ 604(1992)143
- Zhang, Z., see Zhang, R. 646(1993)45
- Zhao, J.-Y., Chen, D.-Y. and Dovichi, N. J.
Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Detection at the zeptomol level of tetramethylrhodamine thiocarbonyl amino acid derivatives 608(1992)117
- Zhao, J. Y., Waldron, K. C., Miller, J., Zhang, J. Z., Harke, H. and Dovichi, N. J.
Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis 608(1992)239
- Zhao, Q. and Li, Z.
Preparative separation and properties of (*E*)- and (*Z*)-steroidal α,β -unsaturated ketoximes 635(1993)342
- Zhao, Z., Tepperman, K., Dorsey, J. G. and Elder, R. C.
Determination of cisplatin and some possible metabolites by ion-pairing chromatography with inductively coupled plasma mass spectrometric detection 615(1993)83
- Zheng, J.-S., see Zhang, C.-X. 612(1993)287
- Zhong, W. Z.
Application of solid-phase extraction in the determination of U-82217 in rat serum, urine and brain 629(1993)83
- Zhou, F.-X., Krull, I. S. and Feibush, B.
9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103
- Zhou, F.-X., Krull, I. S. and Feibush, B.
Direct determination of adamantanamine in plasma and urine with automated solid phase derivatization 619(1993)93
- Zhou, F.-X., Krull, I. S. and Feibush, B.
Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

- Zhou, J., see Mock, K. 646(1993)169
- Zhou, J., Zhang, L. and Wang, E.
Electrochemical detection of cobalt in hair following on-column derivatization with 1-(2-pyridylazo)-2-naphthol-6-sulphonic acid and reversed-phase liquid chromatography 619(1993)103
- Zhou, L., see Guan, Y. 604(1992)233
- Zhou, L., see Lou, X. 605(1992)103
- Zhou, L., see Lou, X. 626(1992)231
- Zhou, L., see Lou, X. 634(1993)281
- Zhou, L., see Lou, X. 634(1993)345
- Zhou, P., Watson, D. G. and Midgley, J. M.
Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 617(1993)11
- Zhou, X., see Wu, Y. 648(1993)491
- Zhu, D., see Guan, Y. 604(1992)233
- Zhu, D., see Lou, X. 626(1992)231
- Zhu, J. and Guiochon, G.
The shock layer thickness, a new approach to the study of column performance in non-linear chromatography I. Optimum linear velocity in frontal analysis 636(1993)189
- Zhu, J., see Wang, H. 609(1992)414
- Zhu, M., Rodriguez, R., Wehr, T. and Siebert, C.
Capillary electrophoresis of hemoglobins and globin chains 608(1992)225
- Zhu, M., Spink, D. C., Bank, S., Chen, X. and DeCaprio, A. P.
Analysis of alkylpyrrole autoxidation products by high-performance liquid chromatography with thermospray mass spectrometry and UV photodiode-array detection 628(1993)37
- Zhu, X. and Desiderio, D. M.
Methionine enkephalin-like immunoreactivity, substance P-like immunoreactivity and β -endorphin-like immunoreactivity *post-mortem* stability in rat pituitary 616(1993)175
- Zhu, Y., see Hendrix, C. 634(1993)257
- Zidek, W., see Schlüter, H. 625(1992)3
- Zidek, W., see Schlüter, H. 639(1993)17
- Ziegler, R. G., see Epler, K. S. 619(1993)37
- Zini, L., see Pietta, P. 638(1993)357
- Živković, V., see Janjić, T. J. 626(1992)305
- Živný, K., see Vlasáková, V. 639(1993)273
- Zodda, J. P., see White, G. 625(1992)157
- Zoontjes, P. W., see Van Ginkel, L. A. 624(1992)389
- Zou, H., Zhang, Y., Hong, M. and Lu, P.
Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169
- Zou, H., Zhang, Y., Hong, M. and Lu, P.
Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269
- Zoutendam, P. H., Berry, D. L. and Carkuff, D. W.
Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221
- Zuccaro, P., Altieri, I., Rosa, M., Passa, A. R., Pichini, S., Ricciarello, G. and Pacifici, R.
Determination of nicotine and four metabolites in the serum of smokers by high-performance liquid chromatography with ultraviolet detection 621(1993)257
- Zuccaro, P., see Pacifici, R. 612(1993)209
- Zukowski, J., Pawlowska, M. and Armstrong, D. W.
Efficient enantioselective separation and determination of trace impurities in secondary amino acids (*i.e.*, imino acids) 623(1992)33
- Zukowski, J., Pawlowska, M., Nagatkina, M. and Armstrong, D. W.
High-performance liquid chromatographic enantioseparation of glycyl di- and tripeptides on native cyclodextrin bonded phases. Mechanistic considerations 629(1993)169
- Zusková, I., Gaš, B. and Vacík, J.
Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233
- Zusková, I., see Hirokawa, T. 628(1993)283
- Žutautas, V., Baškevičiūtė, B. and Pešliakas, H.
Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55
- Zwiep, D., see Sturrock, G. A. 648(1993)423
- Zych, A. J., see Pirkle, W. H. 648(1993)101

SUBJECT INDEX

VOLUMES 601–650

A

Absorbance detectors, full-spectrum

Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319

Acceleration fields

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. II. Path and acceleration of coils and comparison with type J coil planet centrifuge 644(1993)231

Accuracy

Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195

Acid-catalyzed reaction

Determination of furan-based amines in reaction mixtures by gas chromatography 644(1993)383

α_1 -Acid glycoprotein column

Sensitive high-performance liquid chromatographic method for direct separation of labetalol stereoisomers in biological fluids using an α_1 -acid glycoprotein stationary phase 619(1993)79

Isomeric separation of Beraprost sodium using an α_1 -acid glycoprotein column 641(1993)249

Activity blotting

Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147

Acylation

Investigation of the effect of acylation on the enantiomeric separation of amino acid isopropyl esters by gas chromatography 626(1992)231

Additives

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Admixture concentrations

Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233

Adsorbent capacity

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Adsorbents

see also Affinity adsorbents

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography–mass spectrometry 609(1992)297

High-performance thin-layer chromatographic mobility of porphyrins and their copper complexes on different adsorbents 609(1992)341

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Alternatives to methanol–water elution of solid-phase extraction columns for the fractionation of high $\log K_{ow}$ organic compounds in aqueous environmental samples 629(1993)67

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Use of adsorbents to collect selected halocarbons and hydrohalocarbons of environmental interest from large air volumes 642(1993)123

Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163

SUBJECT INDEX

Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211

Retention characteristics of some volatile compounds on Tenax GR 642(1993)379

Sampling and analysis of volatile organic compounds in estuarine air by gas chromatography and mass spectrometry 643(1992)11

Adsorption

Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Selective adsorption of immunoglobulins and glucosylated proteins on phenylboronate-agarose 604(1992)109

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Effect of solvent composition and pH on R_f values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Adsorption chromatography on cellulose. VIII. The salting-out behaviour of some peptides with aromatic groups 626(1992)301

Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Adsorption losses during extraction and derivatization efficiency by benzylation of plant putrescine for high-performance liquid chromatographic analysis 630(1993)397

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Preparative chromatography of biomolecules (Review) 639(1993)3

Evaluation of stationary phases for the separation of buckminsterfullerenes by high-performance liquid chromatography 639(1993)129

Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1

Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO_4 -containing eluents 645(1993)185

pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3

Adsorption capacity

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Re-evaluation of solid-phase adsorption and desorption techniques for isolation of trace organic pollutants from chlorinated water 642(1993)185

Adsorption chromatography

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19

Adsorption constants

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Adsorption energy distribution function

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Adsorption enthalpy

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Adsorption isotherms

Comparison between the hodograph transform method and frontal chromatography for the measurement of binary competitive adsorption isotherms 603(1992)13

Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1

Step elution in preparative liquid chromatography
605(1992)175

Optimization of the experimental conditions and the column design parameters in displacement chromatography
609(1992)35

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Modeling of the adsorption behavior and the chromatographic band profiles of enantiomers. Behavior of methyl mandelate on immobilized cellulose 630(1993)21

Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37

Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Adsorption isotherm of undissociated eluent acid and its relation to the retention of system peaks in non-suppressed ion chromatography 644(1993)183

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143

Adsorption mechanisms

Theoretical study of the ion-exchange preparative chromatography of a two-protein mixture 635(1993)1

Adsorption models

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

Adsorption rate constants

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Adsorption traps

Evaluation of a modified Marcali technique with high-performance liquid chromatography-ultraviolet detection for the determination of 2,4-toluene diisocyanate in air 643(1993)51

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Aerosol extracts, atmospheric

Automatic simultaneous determination of anions and cations in atmospheric aerosols by ion chromatography 640(1993)217

Aerosols

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349

Affinity, multivalent

Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a "concerted cluster" model of multivalent affinity 627(1992)145

Affinity adsorbents

High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Development of an enzyme-linked immunosorbent assay for C.I. Reactive Blue 2 and its application to a comparison of the stability and performance of a perfluorocarbon support with other immobilised C.I. Reactive Blue 2 affinity adsorbents 623(1992)1

Immobilized metal affinity chromatography for the separation of photosystems I and II from the thermophilic cyanobacterium *Synechococcus elongatus* 625(1992)21

New aliphatic boronate ligands for affinity chromatography 625(1992)91

Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125

Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151

Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1

Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37

Evaluation of several affinity chromatographic supports for the purification of maltose-binding protein from *Escherichia coli* 633(1993)273

Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35

Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23

Salt-induced immobilization of proteins on a high-performance liquid chromatographic epoxide affinity support 644(1993)11

Interaction of catechol-2,3-dioxygenase of *Pseudomonas putida* with immobilized histidine and histamine 644(1993)289

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Study of lectin-ganglioside interactions by high-performance liquid affinity chromatography 646(1993)327

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Affinity constants

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Quantitation of adsorption capacity of immunoglobulin G on histidine-aminohexyl Sepharose and determination of affinity constant 616(1993)189

Affinity dyes

Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411

Affinity electrophoresis

Lectin affinity electrophoresis of α -fetoprotein. Increased specificity and sensitivity as a marker of hepatocellular carcinoma 604(1992)91

Affinity emulsions

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Affinity gels

Protein purification using combined streptavidin (or avidin)-Sepharose and thiopropyl-Sepharose affinity chromatography 603(1992)95

Affinity ligands

Protein purification using combined streptavidin (or avidin)-Sepharose and thiopropyl-Sepharose affinity chromatography 603(1992)95

Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Affinity purification method using a reversible biotinylating reagent for peptides synthesized by the solid-phase technique 638(1993)21

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25

Affinity membranes

Studies of a novel membrane for affinity separations. I. Functionalisation and protein coupling 606(1992)19

Affinity partitioning

Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55

Immobilized metal ion affinity partitioning of erythrocytes from different species in dextran-poly(ethylene glycol) aqueous phase systems 641(1993)279

Affinity purification

Affinity purification method using a reversible biotinylating reagent for peptides synthesized by the solid-phase technique 638(1993)21

Agarose, activated

Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23

Agarose, aminophenylborate-substituted

Selective adsorption of immunoglobulins and glucosylated proteins on phenylboronate-agarose 604(1992)109

Aggregation

Determination of alkaline phosphatase aggregation by size exclusion high-performance liquid chromatography with low-angle laser light scattering detection 606(1992)264

Air analysis

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Analysis of chlorofluorocarbon replacement compounds by capillary gas chromatography 648(1993)423

Airborne particulates

Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141

Fractionation of polar organic extracts of airborne particulate matter using cyanopropyl-bonded silica in solid-phase extraction 629(1993)75

Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Selective clean-up for polynuclear aromatic compounds in airborne particles and soil 643(1993)43

Air flow-rate

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Air pollution

Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181

Air quality

Sampling and analysis of volatile organic compounds in estuarine air by gas chromatography and mass spectrometry 643(1992)11

Air samples

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Algorithms

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

Alkali flame ionization detector

Potential variability problems with the alkali flame ionization detector used in gas chromatography 639(1993)363

Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349

Alkaline samples

Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57

Electrodialysis for clean-up of strongly alkaline samples in ion chromatography 640(1993)135

Allium sativum

Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulphoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(*trans*-1-propenyl)-L-cysteine 625(1992)183

Alternaria alternata

Isolation and determination of AAL phytotoxins from corn cultures of the fungus *Alternaria alternata* f. sp. *lycopersici* 641(1993)95

Alumina-based stationary phases

New alumina-based stationary phases for high-performance liquid chromatography. Synthesis by olefin hydrosilation on a silicon hydride-modified alumina intermediate 630(1993)95

Alumina refinery liquors

Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257

Aminoacidato ligands

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

Amino bonded phase columns

Solvent-stationary phase interactions in normal bonded phase high-performance liquid chromatographic columns. I. Investigation of system peaks in amino bonded phase columns 603(1992)63

Synthesis and characterization of highly stable polymer-coated aminosilica packing material for high-performance liquid chromatography 635(1993)187

 γ -Aminopropylsilica gel

Chiral-bonded silica gel stationary phases obtained from chiral silanes for high-performance liquid chromatography. Comparison of performance with that of stationary phases obtained from γ -aminopropylsilica gel 606(1992)9

Amylopectin-based stationary phases

Chiral packing materials for high-performance liquid chromatographic resolution of enantiomers based on substituted branched polysaccharides coated on silica gel 639(1993)141

Analysis time

Adjustment of resolution and analysis time in capillary zone electrophoresis by varying the pH of the buffer 608(1992)161

Analyte focusing

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Animal feeds

Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229

Anion-exchange affinity

Anion chromatography with a crown ether-based stationary phase and an organic modifier in the eluent 640(1993)33

Anion-exchange chromatography-mass spectrometry

Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography-thermospray mass spectrometry 627(1992)63

Anion exchangers

see also Ion exchangers

Applications of an alternative stationary phase for the separation of anions by chemically suppressed ion chromatography 602(1992)15

Anion-exchange selectivity of cyclic phosphate oligomers 644(1993)198

Antigenic T cell sites

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Antiinflammatory agents

Stereoselective determination of the active metabolites of a new anti-inflammatory agent (CS-670) in human and rat plasma using antibody-mediated extraction and high-performance liquid chromatography 613(1993)67

Anti-tumour activity

Isolation of *cis*-[PtCl(NH₃)₂(H₂O)](ClO₄), the monohydrated form of the anti-tumour drug cisplatin, using cation-exchange high-performance liquid chromatography 648(1993)279

Apparent carbon number

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Apparent plate height

Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299

Aqueous two-phase systems

Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25

Analysis of polyethylene glycols with respect to their oligomer distribution by high-performance liquid chromatography 645(1993)135

Archaeobacteria

Gas chromatographic determination of isoprenoid alkylglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253

Areal retention volume

Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1

Argentation chromatography

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag⁺ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Argentation thin-layer chromatography

Reversed-phase thin-layer chromatography of diacylglycerols in the presence of silver ions 603(1992)213

High-resolution separation of polyunsaturated fatty acids by argentation thin-layer chromatography 623(1992)403

Aroma extract dilution analysis

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Aroma extracts

Retention behaviour of volatile compounds in normal-phase high-performance liquid chromatography on a diol column 646(1993)307

Artificial intelligence

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

ASPEC system

Semi-automated solid-phase extraction procedure for drug screening in biological fluids using the ASPEC system in combination with Clean Screen DAU columns 613(1993)289

Aspergillus terreus

Determination of Lovastatin (mevinolin) and mevinolinic acid in fermentation liquids 630(1993)415

Purification of two proteinases from *Aspergillus terreus* by affinity chromatography 639(1993)346

Asphaltenes

Identification of C₂-C₄ alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

ASTED system

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Automated determination of free phenytoin in human plasma with on-line equilibrium dialysis and column-switching high-performance liquid chromatography 621(1993)189

Atmospheric pressure chemical ionization mass spectrometer

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Atmospheric pressure interface

Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography-mass spectrometry with an atmospheric pressure interface 647(1993)289

Atmospheric samples

Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25

Atomic absorption spectroscopy

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Atomic emission detector

Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305

Alkyltin speciation in sea water with on-line hydride conversion and gas chromatography-atomic emission detection 644(1993)153

Atomic emission detector, microwave-induced plasma

Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271

Automated multistep development

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Automatic gain control

Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203

Automation

Automated liquid chromatographic determination of ochratoxin A in cereals and animal products using immunoaffinity column clean-up 603(1992)285

Automation of a clean-up procedure for determination of trichothecenes in cereals using a charcoal-alumina column 603(1992)290

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Rapid method for the determination of glutathione transferase isoenzymes in crude extracts 609(1992)141

Enhancement of detection sensitivity and cleanup selectivity for tobramycin through pre-column derivatization 609(1992)173

Automated analyses of non-ionic surfactants in terms of hydrophobic and polyoxyethylated chain lengths 609(1992)213

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Determination of organophosphorus pesticides in fruits by on-line size-exclusion chromatography–liquid chromatography–gas chromatography–flame photometric detection 626(1992)145

Automated preseparation derivatization on a capillary electrophoresis instrument 634(1993)317

Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Automatic simultaneous determination of anions and cations in atmospheric aerosols by ion chromatography 640(1993)217

Fully automated multi-residue method for trace level monitoring of polar pesticides by liquid chromatography 642(1993)359

Development of automated gas chromatographic–mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

On-line combination of automated micro liquid–liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Avidin–biotin technique

Affinity purification method using a reversible biotinylating reagent for peptides synthesized by the solid-phase technique 638(1993)21

Avocado oil

Determination of the triglyceride composition of avocado oil by high-performance liquid chromatography using a light-scattering detector 607(1992)329

Axial illumination

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Axial temperature effects

Axial temperature effects in electromigration 644(1993)161

B

***Bacillus*, alkaliphilic**

Comparison of high-performance liquid and gas chromatography in the determination of organic acids in culture media of alkaliphilic bacteria 634(1993)273

Background electrolyte

Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341

Background emission

Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129

Bacteria

Determination of bacterial muramic acid by gas chromatography–mass spectrometry with negative-ion detection 628(1993)93

Bacterial cell walls

Determination of bacterial muramic acid by gas chromatography–mass spectrometry with negative-ion detection 628(1993)93

High-performance liquid chromatographic quantitation of phenylthiocarbamyl muramic acid and glucosamine from bacterial cell walls 632(1993)63

Bacteriophages

Purification of the C1 repressor of bacteriophage P1 by fast protein liquid chromatography 625(1992)41

Balaban index

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure–polarity relationships 623(1992)83

Balsam Peru

Simultaneous, stability-indicating capillary gas chromatographic assay for benzocaine and the two principal benzyl esters of Balsam Peru formulated in a topical ointment 623(1992)395

Band broadening

Dispersion in stacked-membrane chromatography 603(1992)43

Microemulsion electrokinetic chromatography: comparison with micellar electrokinetic chromatography 608(1992)23

Improved computer algorithm for characterizing skewed chromatographic band broadening. II. Results and comparisons 630(1993)69

Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13

Mean square radius of molecules and secondary instrumental broadening 648(1993)27

Band profiles

see also Peak shape

Modeling of the adsorption behavior and the chromatographic band profiles of enantiomers. Behavior of methyl mandelate on immobilized cellulose 630(1993)21

Baseline drift

Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129

Batch adsorption kinetics

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Batch adsorption model

High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143

Batch elution

Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275

Bayer liquor

Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257

Bead size

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Bed expansion characteristics

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIV. Physical characterisation of fluidized-bed behaviour of chromatographic packing materials 631(1993)115

Beer

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Benzoylation

Adsorption losses during extraction and derivatization efficiency by benzoylation of plant putrescine for high-performance liquid chromatographic analysis 630(1993)397

Beverages

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Bidirectional isotachopheresis

Bidirectional isotachopheresis. I. Verification of bidirectional isotachopheresis and simultaneous determination of anionic and cationic components 633(1993)251

Bile screening methods

Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15

Binary eluent systems

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Binding affinity

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53

Binding constants

Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion 609(1992)83

Binding mechanism

Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31

Biochemical separation technology

see also Special issue index

Biological fluids

9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103

Biomimetic interaction chromatography

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Biosensors

Mapping of the antibody- and receptor-binding domains of granulocyte colony-stimulating factor using an optical biosensor. Comparison with enzyme-linked immunosorbent assay competition studies 646(1993)159

Biotinylation

Kinetic analysis of biotinylation of specific residues of peptides by high-performance liquid chromatography 631(1993)281

Biot number

Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323

Biuret reaction

Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1

Blue Sepharose

Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367

Boiling point

Gas chromatographic identification of halogenated hydrocarbons by using the correlation between their retention and boiling points 609(1992)289

Bonded layer structure

Nitroxide radicals in studies of the fine bonded layer structure of modified silicas 646(1993)267

Bonded phases

Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227

Comparative study of liquid chromatographic methods for the determination of cefadroxil 634(1993)257

Bonded silicas

Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography 605(1992)199

Dimethoxyphenylpropyl bonded silica phase for higher fullerenes separation by high-performance liquid chromatography 648(1993)71

Bond Elut Certify columns

Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

Bonding density

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Book reviews

Preparative and process scale liquid chromatography (edited by G. Subramanian) 605(1992)149

Cell separation science and technology (edited by D. S. Kompala and P. Todd) 606(1992)152

Modern methods of polymer characterization (edited by H. G. Barth and J. W. Mays) 606(1992)297

Rapid methods for analysis of food and food raw materials (edited by W. Baltes) 606(1992)299

High-performance liquid chromatography (by S. Lindsay) 609(1992)432

HPLC methods in drug analysis (by M. K. Ghosh) 612(1993)340

Toxicological analysis (edited by R. K. Müller) 616(1993)353

Immobilized affinity ligand techniques (by G. T. Hermanson, A. K. Mallia and P. K. Smith) 616(1993)355

Mass spectral and GC data of drugs, poisons, pesticides, pollutants and their metabolites (by K. Pflieger, H. H. Maurer and A. Weber) 617(1993)344

Capillary electrophoresis—principles, practice and applications (by S. F. Y. Li) 623(1992)200

Element specific chromatographic detection by atomic emission spectroscopy (edited by P. C. Uden) 623(1992)202

The analysis of drugs of abuse (edited by T. A. Gough) 623(1992)205

Gas chromatographic separation with modified cyclodextrins (by W. A. König) 623(1992)408

Affinity membranes, their chemistry and performance in adsorptive separation processes (by E. Klein) 623(1992)409

Introduction to micellar electrokinetic chromatography (by J. Vindevogel and P. Sandra) 625(1992)397

- New developments in ion exchange —materials, fundamentals and applications (edited by M. Abe, T. Kataoka and T. Suzuki) 626(1992)315
- Complexation chromatography (Chromatographic Science Series, Vol. 57) (edited by D. Cagniant) 626(1992)317
- Analysis of substances in the gaseous phase (Comprehensive Analytical Chemistry, Vol. XXVIII) (by E. Smolková-Keulemansová and L. Feltl) 628(1993)170
- Ion chromatography —Principles and applications (by P. R. Haddad and P. E. Jackson) 628(1993)319
- Laboratory experiments in liquid chromatography (by W. V. Willis) 628(1993)321
- Advances in applied lipid research, volume 1 (edited by F. B. Padley) 628(1993)322
- Advances in electrophoresis, Vol. 5 (edited by A. Chrambach, M. J. Dunn and B. J. Radola) 629(1993)401
- Advances in lipid methodology (edited by W. W. Christie) 630(1993)447
- Modern chromatographic analysis of vitamins (edited by A. P. de Leenheer, W. E. Lambert and N. J. Nelis) 633(1993)320
- Thin-layer chromatography; reagents and detection methods; physical and chemical detection methods: fundamentals, reagents I (by H. Jork, W. Funk, W. Fischer and H. Wimmer) 635(1993)176
- Liquid chromatography–mass spectrometry (by W. M. A. Niessen and J. van der Greef) 635(1993)349
- Trace metal analysis and speciation (Journal of Chromatography Library, Vol. 47) (edited by I. S. Krull) 635(1993)351
- The dynamics of electrophoresis (by R. A. Mosher, D. A. Galville and W. Thormann) 637(1993)113
- Capillary electrophoresis (edited by P. D. Grossman and J. C. Colburn) 637(1993)115
- Trace and ultratrace analysis by HPLC (by S. Ahuja) 637(1993)116
- Chemical analysis in complex matrices (edited by M. R. Smyth) 639(1993)379
- A practical guide to HPLC detection (edited by D. Parriott) 641(1993)203
- Chromatographic retention indices —an aid to identification of organic compounds (by V. Pacáková and L. Feltl) 641(1993)405
- Advances in Chromatography, Vol. 31 (edited by J. C. Giddings, E. Grushka, J. Cazes and P. R. Brown) 644(1993)416
- High speed narrow bore capillary gas chromatography (by E. van Es) 645(1993)371
- Detectors for capillary chromatography (edited by H. H. Hill and D. G. McMinn) 646(1993)442
- Boronate ligands**
New aliphatic boronate ligands for affinity chromatography 625(1992)91
- Bovine serum albumin sorbent**
Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153
- Bread**
Determination of propionate in bread using capillary zone electrophoresis 627(1992)273
- Breakthrough curves**
Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49
- Rapid breakthrough measurement of void volume for field-flow fractionation channels 627(1992)23
- Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123
- Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1
- Breakthrough studies**
Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3
- Breakthrough volumes**
Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography–capillary gas chromatography 630(1993)201
- Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265
- Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211
- Retention characteristics of some volatile compounds on Tenax GR 642(1993)379
- Brown algae**
Ion chromatographic investigation of brown algae (*Fucus vesiculosus*) of the German Environmental Specimen Bank 643(1993)427

Bubbler design

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion-ion chromatography technique 640(1993)111

Buffer composition

Effect of buffer constituents on the determination of therapeutic proteins by capillary electrophoresis 608(1992)197

Effect of the buffer solution on the elution order and separation of bis(amidinohydrazones) by micellar electrokinetic capillary chromatography 608(1992)317

Theoretical aspects of chiral separation in capillary electrophoresis. II. The role of organic solvent 609(1992)363

Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375

Capillary electrophoretic protein separations in polyacrylamide-coated silica capillaries and buffers containing ionic surfactants 630(1993)337

Capillary electrophoresis—mass spectrometry (Review) 636(1993)3

Resolution of diastereomeric phosphoramidate bridged unnatural oligonucleotides by micellar electrokinetic chromatography 636(1993)113

Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Buffer modifiers

Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265

Buffer selection

Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137

Bupleurum root

Determination of acidic saponins in crude drugs by high-performance liquid chromatography on octadecylsilyl porous glass 630(1993)408

C**Calibration graphs**

Determination of propionate in bread using capillary zone electrophoresis 627(1992)273

Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51

Calibration methods

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Camellia sinensis

Characterization of flavonoids by liquid chromatography-tandem mass spectrometry 629(1993)389

Capacity factors

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Theoretical calculation of the retention of chlorobenzenes on non-polar and polar capillary columns connected in series 626(1992)207

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Cape aloes

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

Capillary coatings

Rapid isoelectric focusing of proteins in hydrolytically stable capillaries 623(1992)357

Capillary columns

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Rugged method for the determination of deamidation products in insulin solutions by free zone capillary electrophoresis using an untreated fused-silica capillary 604(1992)267

- Evaluation of capillary columns used in the routine determination of methylmercury in biological and environmental materials 605(1992)69
- Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115
- Solute retention in open-tubular liquid chromatography with flowing retentive liquid 605(1992)167
- Improvements in the method developed for performing isoelectric focusing in uncoated capillaries 606(1992)291
- Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135
- Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297
- Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157
- Polymer- and surfactant-coated capillaries for isoelectric focusing 632(1993)185
- Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25
- Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235
- Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31
- Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21
- Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361
- Analysis of chlorofluorocarbon replacement compounds by capillary gas chromatography 648(1993)423
- Capillary columns, packed**
Development of directly coupled supercritical fluid chromatography with packed capillary column–mass spectrometry with atmospheric pressure chemical ionization 605(1992)87
- Capillary columns, polyacrylamide-coated**
Capillary electrophoretic protein separations in polyacrylamide-coated silica capillaries and buffers containing ionic surfactants 630(1993)337
- Capillary columns, rectangular**
Observation of flow profiles in electroosmosis in a rectangular capillary 632(1993)201
- Capillary electrophoresis**
see also Special issue index
- Capillary electrophoresis**
see also Micellar electrokinetic chromatography
- New approach to the analysis of low levels of anions in water 602(1992)79
- Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219
- Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227
- Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235
- Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241
- Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249
- Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257
- Theoretical aspects of chiral separation in capillary electrophoresis. I. Initial evaluation of a model 603(1992)235
- High-performance capillary electrophoretic analysis of chloramphenicol acetyl transferase activity 603(1992)247
- Qualitative analysis of environmental samples for aromatic sulfonic acids by high-performance capillary electrophoresis 603(1992)267
- Quantitation of *l*-epinephrine and determination of the *d*-/*l*-epinephrine enantiomer ratio in a pharmaceutical formulation by capillary electrophoresis 603(1992)298
- Simple multi-point detection method for high-performance capillary electrophoresis 604(1992)85
- Rugged method for the determination of deamidation products in insulin solutions by free zone capillary electrophoresis using an untreated fused-silica capillary 604(1992)267
- Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115
- Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139
- Determination of sodium vinyl sulphonate in water-soluble polymers using capillary zone electrophoresis 605(1992)143

- Unsteady heat transfer in capillary zone electrophoresis. I. A mathematical model 606(1992)95
- Unsteady heat transfer in capillary zone electrophoresis. II. Computer simulations 606(1992)103
- Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229
- Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonyleureas 606(1992)237
- Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119
- On-column transient and coupled column isotachophoretic preconcentration of protein samples in capillary zone electrophoresis 608(1992)3
- Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13
- Effects of carrier electrolyte composition on separation selectivity in capillary zone electrophoresis of low-molecular-mass anions 608(1992)59
- Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65
- Laser fluorescence detector for capillary electrophoresis 608(1992)73
- Dynamic light-scattering studies of hydroxyethyl cellulose solutions used as sieving media for electrophoretic separations 608(1992)79
- Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85
- Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93
- Theoretical and experimental aspects of indirect detection in capillary electrophoresis 608(1992)97
- Membrane fraction collection for capillary electrophoresis 608(1992)109
- Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Detection at the zeptomol level of tetramethylrhodamine thiocarbonyl amino acid derivatives 608(1992)117
- Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151
- Capillary electrophoresis washing technique 608(1992)159
- Adjustment of resolution and analysis time in capillary zone electrophoresis by varying the pH of the buffer 608(1992)161
- Capillary electrophoresis of fluorescein-ethylenediamine-5'-deoxynucleotides 608(1992)171
- Influence of pH on the migration properties of oligonucleotides in capillary gel electrophoresis 608(1992)175
- Determination of vasoactive intestinal peptide in rat brain by high-performance capillary electrophoresis 608(1992)181
- Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis-electrochemistry 608(1992)189
- Effect of buffer constituents on the determination of therapeutic proteins by capillary electrophoresis 608(1992)197
- Capillary electrophoretic determination of the protease Savinase in cultivation broth 608(1992)205
- Separation of phosphorylated histone H1 variants by high-performance capillary electrophoresis 608(1992)211
- Ultramicro enzyme assays in a capillary electrophoretic system 608(1992)217
- Capillary electrophoresis of hemoglobins and globin chains 608(1992)225
- Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis 608(1992)239
- Study of protein-drug binding using capillary zone electrophoresis 608(1992)257
- Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265
- Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275
- High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289
- Separation of natural and synthetic heparin fragments by high-performance capillary electrophoresis 608(1992)297
- Identification of vitamin B₁₂ and analogues by high-performance capillary electrophoresis and comparison with high-performance liquid chromatography 608(1992)311
- Determination of quaternary ammonium compounds by capillary electrophoresis using direct and indirect UV detection 608(1992)325

- Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333
- Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343
- Sodium dodecyl sulfate–capillary gel electrophoresis of proteins using non-cross-linked polyacrylamide 608(1992)349
- Assessment of the capabilities of capillary zone electrophoresis for the determination of hippuric and orotic acid in whey 608(1992)357
- Analysis of alkylaromatic sulphonates by high-performance capillary electrophoresis 608(1992)375
- Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385
- Optimization of detection sensitivity in the analysis of inorganic cations by capillary ion electrophoresis using indirect photometric detection 608(1992)395
- Separation of inositol phosphates by capillary electrophoresis 608(1992)413
- Chiral separations by capillary electrophoresis using cyclodextrin-containing gels 608(1992)421
- Separation of dideoxyribonucleosides in trace amounts by automated liquid chromatography and capillary electrophoresis 609(1992)147
- Theoretical aspects of chiral separation in capillary electrophoresis. II. The role of organic solvent 609(1992)363
- Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375
- Determination of C₈–C₂₀ saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381
- Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149
- Investigation of the metabolic fate of the neuroleptic drug haloperidol by capillary electrophoresis–electrospray ionization mass spectrometry 621(1993)239
- Direct determination of ephedrine and norephedrine in human urine by capillary zone electrophoresis 622(1993)103
- Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196
- Analytical and micropreparative separation of peptides by capillary zone electrophoresis using discontinuous buffer systems 623(1992)345
- Prediction of current–voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323
- Comparative study of capillary zone electrophoresis and high-performance liquid chromatography in the analysis of oligonucleotides and DNA 625(1992)331
- Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341
- Separation of phenylenediamine isomers by capillary zone electrophoresis 625(1992)387
- Application of capillary electrophoresis to pharmaceutical analysis. Determination of alendronate in dosage forms 626(1992)245
- Determination and rotamer separation of enalapril maleate by capillary electrophoresis 626(1992)251
- Indirect fluorimetric detection of alkali and alkaline earth metal ions in capillary zone electrophoresis with cerium(III) as carrier electrolyte 626(1992)259
- Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310
- Capillary isotachopheretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263
- Determination of propionate in bread using capillary zone electrophoresis 627(1992)273
- Separation of tetracycline and its degradation products by capillary zone electrophoresis 627(1992)281
- Structural characterization of polypeptides and proteins by combination of capillary electrophoresis and ²⁵²Cf plasma desorption mass spectrometry 628(1993)111
- Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. I. Separation of flavonoid-7-O-glycosides differing in their flavonoid aglycone 628(1993)153
- Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. II. Separation of flavonoid-3-O-glycosides differing in their sugar moiety 628(1993)161
- Effect of sample stacking on resolution, calibration graphs and pH in capillary zone electrophoresis 629(1993)371
- Analysis of anthraquinone sulphonates. Comparison of capillary electrophoresis with high-performance liquid chromatography 629(1993)379
- Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329

- Capillary electrophoretic protein separations in polyacrylamide-coated silica capillaries and buffers containing ionic surfactants 630(1993)337
- Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353
- Determination of alkylphosphonic acids by capillary zone electrophoresis using indirect UV detection 630(1993)371
- Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379
- Capillary electrophoretic separation of recombinant granulocyte-colony-stimulating factor glycoforms 630(1993)442
- Separation of metallothionein isoforms by capillary zone electrophoresis 632(1993)127
- Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137
- Voltage programming in capillary zone electrophoresis 632(1993)149
- Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157
- Determination of sulphonamides in pharmaceuticals by capillary electrophoresis 632(1993)165
- Capillary sodium dodecyl sulfate gel electrophoresis of proteins 632(1993)171
- Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195
- On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209
- On-column detection in capillary zone electrophoresis with ion-selective microelectrodes in conical capillary apertures 633(1993)207
- Peak homogeneity determination and micro-preparative fraction collection by capillary electrophoresis for pharmaceutical analysis 633(1993)221
- Determination of ester substituents in cellulose esters 633(1993)227
- Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235
- Measurement of vitamin C by capillary electrophoresis in biological fluids and fruit beverages using a stereoisomer as an internal standard 633(1993)245
- Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315
- Analysis of a dilute sample by capillary zone electrophoresis with isotachophoretic preconcentration 634(1993)101
- Analysis of sugarcane flavonoids by capillary zone electrophoresis 634(1993)107
- Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309
- Automated pre-separation derivatization on a capillary electrophoresis instrument 634(1993)317
- Determination of salbutamol-related impurities by capillary electrophoresis 634(1993)323
- Determination of quaternary alkaloids from *Phellodendri Cortex* by capillary electrophoresis 634(1993)329
- Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113
- Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119
- Determination of gold(I) and silver(I) cyanide in ores by capillary zone electrophoresis 635(1993)127
- Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenoprofen and ibuprofen 635(1993)291
- Speciation of aluminum using capillary zone electrophoresis with indirect UV detection 635(1993)307
- Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319
- Capillary electrophoresis—mass spectrometry (Review) 636(1993)3
- Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21
- Precise quantitative capillary electrophoresis. Methodological and instrumental aspects 636(1993)31
- Diode laser-based indirect absorbance detector for capillary electrophoresis 636(1993)39
- Theory of chiral separation in capillary electrophoresis 636(1993)57

- Monitoring tripeptidase activity using capillary electrophoresis. Comparison with the ninhydrin assay 636(1993)63
- Separation and tryptic digest mapping of normal and variant haemoglobins by capillary electrophoresis 636(1993)69
- Oligoglycines and oligoalanines as tests for modelling mobility of peptides in capillary electrophoresis 636(1993)81
- Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95
- Optimized separation of purine bases and nucleosides in human cord plasma by capillary zone electrophoresis 636(1993)105
- High-speed determination of drug related impurities by capillary electrophoresis employing commercial instrumentation 636(1993)125
- Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133
- Differential binding of tioconazole enantiomers to hydroxypropyl- β -cyclodextrin studied by capillary electrophoresis 636(1993)149
- Role of capillary electrophoresis in specialty chemical research 636(1993)153
- Capillary electrophoresis analysis of polyhaematoporphyrin, a photosensitizer used in photodynamic therapy 636(1993)171
- Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179
- (Enantio)-separation of phenoxy acid herbicides using capillary zone electrophoresis 637(1993)81
- Determination of ephedrine and pseudoephedrine in Chinese herbal preparations by capillary electrophoresis 637(1993)219
- Options in electrolyte systems in combined capillary isotachopheresis and capillary zone electrophoresis 638(1993)119
- Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137
- Equipment for multifunctional use in high-performance capillary electrophoresis 638(1993)147
- Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis 638(1993)165
- Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247
- Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255
- Chiral separation of β -blockers by high-performance capillary electrophoresis based on non-immobilized cellulase as enantioselective protein 638(1993)263
- Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269
- Detection by capillary electrophoresis of restriction fragment length polymorphism. Analysis of a polymerase chain reaction-amplified product of the DXS 164 locus in the dystrophin gene 638(1993)277
- Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol 638(1993)283
- High-performance liquid chromatography and capillary gel electrophoresis as applied to antisense DNA 638(1993)293
- Capillary electrophoresis for the investigation of illicit drugs in hair: determination of cocaine and morphine 638(1993)303
- Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311
- Analysis of pilocarpine and its *trans* epimer, isopilocarpine, by capillary electrophoresis 638(1993)319
- Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335
- Capillary electrophoresis of *o*-phenylenediamine derivatives (quinoxalines) of dicarbonyl sugars 638(1993)343
- Determination of coptisine, berberine and palmatine in traditional Chinese medicinal preparations by capillary electrophoresis 639(1993)323
- Separation of diastereomeric derivatives of enantiomers by capillary zone electrophoresis with a polymer network: use of polyvinylpyrrolidone as buffer additive 639(1993)375
- Analysis of cationic nutrients from foods by ion chromatography 640(1993)359
- Method development approaches for capillary ion electrophoresis 640(1993)387
- Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397
- Capillary ion electrophoresis, an environmental method for the determination of anions in water 640(1993)403
- Capillary zone electrophoresis in the analysis of dyes and other compounds employed in the dye-manufacturing and dye-using industries 640(1993)413

- Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419
- Separation of metal ions by capillary electrophoresis 640(1993)425
- End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433
- Capillary electrophoretic determination of inorganic ions in a prenatal vitamin formulation 640(1993)441
- Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445
- Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463
- Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473
- Optimization of injection technique in capillary ion electrophoresis for the determination of trace level anions in environmental samples 640(1993)481
- Inter-company cross-validation exercise on capillary electrophoresis. I. Chiral analysis of clenbuterol 641(1993)147
- Automated isotachophoretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155
- Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163
- Isotachophoresis superimposed on capillary zone electrophoresis 641(1993)363
- Capillary electrophoresis with on-line sample pretreatment for the analysis of biological samples with direct injection 641(1993)375
- Characterization of each isoform of a $F(ab')_2$ by capillary electrophoresis 641(1993)383
- Influence of column temperature and physico-chemical properties on the electrophoretic behaviour of polyglycine peptides in free-solution capillary electrophoresis 644(1993)175
- Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208
- Separation of D-galactonic and D-gluconic acids by capillary zone electrophoresis 644(1993)412
- Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169
- Validation of a capillary electrophoresis method for the enantiomeric purity testing of fluparoxan 645(1993)193
- Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197
- Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311
- Optimized capillary zone electrophoretic separation of chlorinated phenols 645(1993)327
- Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337
- Separation of isoforms of *Serratia marcescens* nuclease by capillary electrophoresis 645(1993)353
- Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366
- Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175
- Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245
- Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377
- The analysis of multiple phosphoserine-containing casein peptides using capillary zone electrophoresis 646(1993)391
- Investigation of vanadate as a pH sensitive analyte anion using capillary zone electrophoresis 646(1993)405
- Off-line coupling of capillary electrophoresis with matrix-assisted laser desorption mass spectrometry 647(1993)367
- Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245
- Comparison of high-performance liquid chromatography and capillary electrophoresis in the analysis of somatostatin analogue peptides 648(1993)251
- Separation of neuropeptide Y diastereomers by high-performance liquid chromatography and capillary zone electrophoresis 648(1993)257
- Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267
- Separation of the anomers and isomers of 2'-deoxyuridine and thymidine by capillary zone electrophoresis 648(1993)299

Characterization of metallothionein isoforms. Comparison of capillary zone electrophoresis with reversed-phase high-performance liquid chromatography 648(1993)459

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Capillary electrophoresis, coupling with SEC

Two-dimensional protein separation by microcolumn size-exclusion chromatography–capillary zone electrophoresis 633(1993)213

Capillary electrophoresis–mass spectrometry

see also Special issue index

Capillary electrophoresis–mass spectrometry

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Identification of degradation products of some chemical warfare agents by capillary electrophoresis–ionspray mass spectrometry 634(1993)113

Optimization of capillary zone electrophoresis–electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Capillary zone electrophoresis–ionspray mass spectrometry of a synthetic drug–protein conjugate mixture 647(1993)361

Capillary isoelectric focusing

Improvements in the method developed for performing isoelectric focusing in uncoated capillaries 606(1992)291

Carbon in-line filters

Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339

Carbon steel

Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163

Carbon supports

Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189

Carbosieve

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Carbotrap

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Carbowax 20M

Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. I. Physico-chemical properties of siliceous materials with immobilized Carbowax 20M layer 641(1993)205

Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. II. Application in high-performance liquid chromatography 641(1993)211

Carcinogens

Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253

Carrier electrolyte

Effects of carrier electrolyte composition on separation selectivity in capillary zone electrophoresis of low-molecular-mass anions 608(1992)59

Carrier gas flow-rate

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

Carrier-mediated transport

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Catalysis

Preparation of methyl esters of fatty acids with trimethylsulphonium hydroxide—an appraisal 630(1993)438

Catharanthus roseus

Purification of the cytochrome P-450 enzyme geraniol 10-hydroxylase from cell cultures of *Catharanthus roseus* 635(1993)237

Cation-exchange membranes

Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57

Electrodialysis for clean-up of strongly alkaline samples in ion chromatography 640(1993)135

Cation exchangers

see also Ion exchangers

Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57

Novel weak acid cation-exchange column 640(1993)65

Cell partitioning

Erythrocyte partitioning in dextran–poly(ethylene glycol) aqueous phase systems. Events in phase and cell separation 609(1992)219

Cellulose

Adsorption chromatography on cellulose. VII. Chiral separations on cellulose with aqueous solvents 604(1992)55

Adsorption chromatography on cellulose. VIII. The salting-out behaviour of some peptides with aromatic groups 626(1992)301

Adsorption chromatography on cellulose. IX. Chiral separations with aqueous solvents and liquid-liquid systems 635(1993)346

Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO_4 -containing eluents 645(1993)185

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Cellulose acetate joint

Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208

Cellulose triacetate, microcrystalline

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19

Centrifugal counter-current distribution

Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system 617(1993)51

Chain length

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Charcoal cloth

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Chelating agents

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)-resorcinol and Arsenazo-III 605(1992)63

High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone chelates 633(1993)129

Chelating columns

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Chelating ligands

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107

Chelation

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Chelation concentration

Improved method for the determination of manganese in nuclear power plant waters 640(1993)371

Chemical ionization

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic-thermospray mass spectrometric applications 626(1992)81

Investigation into lacidipine and related metabolites by high-performance liquid chromatography-mass spectrometry 647(1993)155

Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433

Chemical modification

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129

Chemical reaction interface mass spectrometer

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Chemiluminescence detector

Chemiluminescent detection of thymine hydroperoxides by high-performance liquid chromatography 606(1992)187

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Sensitive assay system for nitrosamines utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 634(1993)221

Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309

Chemisorption

Determination of formaldehyde in air by chemisorption on glass filters impregnated with 2,4-dinitrophenylhydrazine using gas chromatography with thermionic specific detection 626(1992)284

Chemometrics

Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181

Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs 633(1993)57

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

***Chenopodium rubrum* L.**

Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13

Chiral additives

Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223

Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Use of chiral monohalo-*s*-triazine reagents for the liquid chromatographic resolution of DL-amino acids 627(1992)97

Chiral complexing agents

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Chiral displacement

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Chirality assignments

Analysis and configuration assignments of the amino acids in a pyoverdine-type siderophore by reversed-phase high-performance liquid chromatography 646(1993)335

Chiral metal complexes

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Chiral recognition

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Concerning the role of face-to-edge π - π interactions in chiral recognition 607(1992)126

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Investigation of the effect of acylation on the enantiomeric separation of amino acid isopropyl esters by gas chromatography 626(1992)231

Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11

Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Optical resolution by high-performance liquid chromatography on benzylcarbamates of cellulose and amylose 641(1993)267

Some aspects of the enantio-recognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233

Chiral recognition mechanisms

Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11

Use of homologous series of analytes as mechanistic probes to investigate the origins of enantioselectivity on two chiral stationary phases 641(1993)21

Chiral selectivity factor

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

Chiral selectors

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Chiral separation

see Enantiomer separation

Chiral stationary phases, CE

Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267

Chiral stationary phases, GC

Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Chiral stationary phases, LC

Direct resolution of organic acid enantiomers on a novel polymer-based stationary phase 602(1992)21

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Conalbumin-conjugated silica gel, a new chiral stationary phase for high-performance liquid chromatography 603(1992)105

Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185

Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19

Chiral-bonded silica gel stationary phases obtained from chiral silanes for high-performance liquid chromatography. Comparison of performance with that of stationary phases obtained from γ -aminopropylsilica gel 606(1992)9

Concerning the role of face-to-edge π - π interactions in chiral recognition 607(1992)126

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Improved crown ether-based chiral stationary phase 625(1992)101

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163

Optimization of naphthylethylurea multiple-bonded chiral stationary phases for optical resolution of enantiomeric amino acid derivatives 625(1992)353

Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197

Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11

Enantiomer separations of secondary alkanols with little asymmetry by high-performance liquid chromatography on chiral columns 629(1993)385

Functionalized polymer particles for chiral separation 630(1993)79

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Enantiomer separation by high-performance liquid chromatography with copper(II) complexes of Schiff bases as chiral stationary phases 631(1993)177

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Direct chiral separation of almokalant on Chiralcel OD and Chiralpak AD for liquid chromatographic assay of biological samples 631(1993)191

Direct high-performance liquid chromatographic resolution of 2-aryl- and 2-heteroarylpropionic acids on a chiral stationary phase containing the *N,N'*-dinitrobenzoyl derivative of (1*R*,2*R*)-diaminocyclohexane 633(1993)81

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13

- Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19
- Chiral packing materials for high-performance liquid chromatographic resolution of enantiomers based on substituted branched polysaccharides coated on silica gel 639(1993)141
- Enantiomeric separation of amino alcohols on dinitrobenzoyl-diaminocyclohexane chiral stationary phases 639(1993)193
- Comments on a report of the separation of the enantiomers of π -donor analytes on π -donor chiral stationary phases 639(1993)329
- Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11
- Use of homologous series of analytes as mechanistic probes to investigate the origins of enantioselectivity on two chiral stationary phases 641(1993)21
- High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31
- Enantiomeric separation of fluorescent, 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate, tagged amino acids 641(1993)257
- Optical resolution by high-performance liquid chromatography on benzylcarbamates of cellulose and amylose 641(1993)267
- High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)-methylamino]-6-chloro-*s*-triazine-derived chiral stationary phases 644(1993)277
- Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17
- High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues 645(1993)107
- Some aspects of the enantiorecognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocinide and mexiletine as model compounds 645(1993)233
- Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101
- Chiral stationary phases based on intact and fragmented cellobiohydrolase I immobilized on silica 648(1993)333
- Chironia**
Liquid chromatographic-UV detection and liquid chromatographic-thermospray mass spectrometric analysis of *Chironia* (Gentianaceae) species. A rapid method for the screening of polyphenols in crude plant extracts 647(1993)191
- Chlorinated water**
Evaluation of the liquid-liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251
- Chromarods**
Thin-layer chromatography-flame ionization detection Introscan system (Review) 624(1992)21
- Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97
- Chromatofocusing**
Separation of interleukins by a preparative chromatofocusing-like method 631(1993)277
- Characterization of each isoform of a F(ab')₂ by capillary electrophoresis 641(1993)383
- Chromatographic behaviour**
Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51
- Chromatographic classics**
Use of macroreticular resins in the analysis of water for trace organic contaminants, by G. A. Junk, J. J. Richard, M. D. Grieser, D. Witiak, J. L. Witiak, M. D. Arguello, R. Vick, H. J. Svec, J. S. Fritz and G. V. Calder, *J. Chromatogr.*, 99 (1974) 745-762 (Chromatographic Classic) 625(1992)87
- Chromatographic methods**
Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53
- Chromatographic parameters**
Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79
- Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic-fast atom bombardment mass spectrometric systems 647(1993)21
- Chromatographic theory**
Comparison of the various kinetic models of non-linear chromatography 603(1992)1
- Comparison between the hodograph transform method and frontal chromatography for the measurement of binary competitive adsorption isotherms 603(1992)13

- Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27
- Dispersion in stacked-membrane chromatography 603(1992)43
- Step elution in preparative liquid chromatography 605(1992)175
- Plate-height equation for non-linear chromatography 606(1992)153
- Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79
- History of a theory 633(1993)1
- Dispersion in packed-column hydrodynamic chromatography 634(1993)149
- Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195
- Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283
- Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119
- Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213
- Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329
- Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1
- Size-exclusion chromatography in an analytical perspective 648(1993)19
- Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41
- α -Chymotrypsin-silica**
Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185
- Circular dichroism spectroscopy**
Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199
- Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73
- Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53
- Optimization of the separation of oligodeoxyribonucleoside phosphoramidates and their characterization by circular dichroism spectroscopy 648(1993)157
- Cis-trans isomerization**
Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165
- Citrus plants**
Determination of synephrine from Chinese medicinal drugs originating from *Citrus* species by ion-pair high-performance liquid chromatography 623(1992)386
- Class separation**
Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141
- Clays**
Recovery of diesel fuel from clays by supercritical fluid extraction-gas chromatography 606(1992)221
- Clean Screen DAU columns**
Semi-automated solid-phase extraction procedure for drug screening in biological fluids using the ASPEC system in combination with Clean Screen DAU columns 613(1993)289
- Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147
- Clean-up methods**
Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57
- Automated liquid chromatographic determination of ochratoxin A in cereals and animal products using immunoaffinity column clean-up 603(1992)285
- Automation of a clean-up procedure for determination of trichothecenes in cereals using a charcoal-alumina column 603(1992)290

- Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181
- Column-switching techniques for high-performance liquid chromatography of drugs in biological samples (Review) 619(1993)177
- Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175
- High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69
- Determination of aflatoxins in food products by chromatography (Review) 624(1992)341
- Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353
- Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403
- Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141
- Determination of organophosphorus pesticides in fruits by on-line size-exclusion chromatography-liquid chromatography-gas chromatography-flame photometric detection 626(1992)145
- Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300
- High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography-electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzoyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35
- Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229
- High-performance liquid chromatography-thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267
- High-performance liquid chromatography with ion pairing and electrochemical detection for the determination of the stability of two forms of vitamin C 632(1993)91
- Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215
- Membrane-based sample preparation for chromatography (Review) 634(1993)1
- Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227
- Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137
- Electrodialysis for clean-up of strongly alkaline samples in ion chromatography 640(1993)135
- Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89
- Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33
- Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47
- Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195
- Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205
- Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253
- Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425
- Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25
- Selective clean-up for polynuclear aromatic compounds in airborne particles and soil 643(1993)43
- Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305
- High-performance liquid chromatographic analysis of carbofuran residues in tomatoes grown in hydroponics 643(1993)351
- Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363

Environmental analysis of polychlorinated terphenyls: distribution in shellfish from the Ebro Delta (Mediterranean) 643(1993)399

Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485

Cluster compounds

Ion chromatographic analysis of inorganic molecular metal-oxygen cluster compounds 602(1992)173

Coal pyrolysis tars

Isolation of the phenolic fraction of coal pyrolysis tars by ion-exchange chromatography 607(1992)353

Coals

Identification of C₂-C₄ alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Identification of very-long-chain acids from peat and coals by capillary gas chromatography-mass spectrometry 627(1992)241

Coal tar pitch

Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295

Coated capillaries

Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227

Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197

Cod liver oil

Liquid-gel partitioning using Lipidex in the determination of polychlorinated biphenyls in cod liver oil 630(1993)179

Co-elution

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Coil planet centrifuge

Hydrodynamic and hydrostatic high-speed countercurrent chromatography and its coupling with various kinds of detectors. Application to biochemical separations (Review) 626(1992)41

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. II. Path and acceleration of coils and comparison with type J coil planet centrifuge 644(1993)231

Studies on new cross-axis coil planet centrifuge for performing counter-current chromatography. III. Speculations on the hydrodynamic mechanism in stationary phase retention 644(1993)239

Co-ion system peaks

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Cold point effect

Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

Cold-trap injection

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Cold traps

Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33

Trapping efficiencies of capillary cold traps for C₂-C₁₀ hydrocarbons 627(1992)219

Cold vapour atomic absorption spectroscopy

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

Collaborative study

Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195

Collision offset voltage

Radiofrequency-only daughter scan mode to provide more spectral information in liquid chromatography–thermospray tandem mass spectrometry 647(1993)39

Column coupling

Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137

Column length

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Effect of column length and elution mechanism on the separation of proteins by reversed-phase high-performance liquid chromatography 625(1992)217

Column liquid chromatography

see also Special issue index

Column overloading

Matrix elimination in ion chromatography by “heart-cut” column-switching techniques 602(1992)155

Column performance

The shock layer thickness, a new approach to the study of column performance in non-linear chromatography I. Optimum linear velocity in frontal analysis 636(1993)189

Columns, GC

Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1

Columns, serially linked

Theoretical calculation of the retention of chlorobenzenes on non-polar and polar capillary columns connected in series 626(1992)207

Column stability

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Column switching

Dual-column techniques for the simultaneous analysis of anions and cations 602(1992)127

Matrix elimination in ion chromatography by “heart-cut” column-switching techniques 602(1992)155

Monitoring of benzodiazepines (clobazam, diazepam and their main active metabolites) in human plasma by column-switching high-performance liquid chromatography 617(1993)285

Column-switching techniques for high-performance liquid chromatography of drugs in biological samples (Review) 619(1993)177

Determination of benzalkonium chloride in eye care products by high-performance liquid chromatography and solid-phase extraction or on-line column switching 625(1992)362

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography–mass spectrometry 632(1993)215

Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35

Determination of inorganic and organic anions in one run by ion chromatography with column switching 640(1993)27

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography–mass spectrometry 641(1993)347

Coupled-column reversed-phase liquid chromatography–UV analyser for the determination of polar pesticides in water 644(1993)307

Column temperature

Temperature dependence of the anion-exchange chromatographic behaviour of cyclic phosphate oligomers and their anion-exchange separation 628(1993)241

Combustion–ion chromatography

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion–ion chromatography technique 640(1993)111

Complexation

New thiohydrazones for complexation and chromatographic determination of metal ions 602(1992)103

Complexation ion chromatography

Complexation ion chromatography —an overview of developments and trends in trace metal analysis (Review) 640(1993)195

Complex formation

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

 π -Complex formation

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag^+ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Complex formation constant

Reversed-phase liquid chromatographic measurement of the influence of a co-modifier functional group on the retention behavior of the β -cyclodextrin-pyrene complex 635(1993)211

Complexing agents

New thiohydrazones for complexation and chromatographic determination of metal ions 602(1992)103

Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249

Separation and quantitation of some metal ions by reversed-phase high-performance liquid chromatography using *in situ* complexation with (\pm)-*trans*-1,2-diaminecyclohexane-N,N,N',N'-tetraacetic acid 607(1992)207

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Complexing electrolyte

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

Compressed continuous beds

Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography 646(1993)121

Computer algorithm

Improved computer algorithm for characterizing skewed chromatographic band broadening. II. Results and comparisons 630(1993)69

Computer-assisted chromatography

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Computer-aided optimization of gradient multiple-development thin-layer chromatography. I. Two-stage development 623(1992)139

Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Computer-assisted optimization

Computer-assisted optimization of the gas chromatographic separation of equine estrogens 617(1993)19

Computer simulation

Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161

Unsteady heat transfer in capillary zone electrophoresis. II. Computer simulations 606(1992)103

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233

Concentration fluctuation

Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119

Concentration gradient detector

Application of capillary isoelectric focusing with universal concentration gradient detector to the analysis of protein samples 608(1992)121

Concentration-sensitive detector response

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Concentrator capillaries

On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209

Concentrator columns

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion-ion chromatography technique 640(1993)111

Concerted cluster model

Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a "concerted cluster" model of multivalent affinity 627(1992)145

Concrete

Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283

Conditional access, slope ratios

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Conformational effects

Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199

Observation of a conformational effect in peptide molecule by reversed-phase high-performance liquid chromatography 644(1993)285

Conformational studies

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Connectivity indices

Molecular topology and chromatographic retention parameters for benzodiazepines 607(1992)91

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships 623(1992)83

Consolida orientalis

Isolation and identification via high-performance liquid chromatography and thin-layer chromatography of benzoxazolinone precursors from *Consolida orientalis* flowers 609(1992)402

Continuous beds

Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography 646(1993)121

Continuous-flow fast atom bombardment

Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 647(1993)91

Continuous liquid extraction

Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154

Continuous monitoring

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Continuous on-line post-elution photoirradiation

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Continuous purification

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Contour plots

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Convection

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Cookson-type reagents

Sensitive and stable Cookson-type reagent for derivatization of conjugated dienes for high-performance liquid chromatography with fluorescence detection 606(1992)133

Coolants

Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323

Correlation chromatography

Indirect introduction of liquid samples in gas correlation chromatography 639(1993)207

Correlation techniques

Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53

Correspondence factor analysis

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Corrosion

Application of ion chromatography to corrosion studies 602(1992)135

Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163

Chromatographic studies of corrosion sites in metallic materials 640(1993)345

Coulometric detector

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

Coulometric efficiency

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

Counter-current chromatography

Determination of the reactivity of uracil derivatives with respect to methyl iodide by high-performance thin-layer chromatographic densitometry 604(1992)261

Complementary use of counter-current chromatography and preparative reversed-phase high-performance liquid chromatography in the separation of a synthetic mixture of brominated tetrachlorofluoresceins 607(1992)47

Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177

Hydrodynamic and hydrostatic high-speed countercurrent chromatography and its coupling with various kinds of detectors. Application to biochemical separations (Review) 626(1992)41

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. II. Path and acceleration of coils and comparison with type J coil planet centrifuge 644(1993)231

Studies on new cross-axis coil planet centrifuge for performing counter-current chromatography. III. Speculations on the hydrodynamic mechanism in stationary phase retention 644(1993)239

Counter-current distribution

Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system 617(1993)51

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)291

Counter-current gas-liquid chromatography

Improvement of continuous counter-current gas-liquid chromatography for practical use 629(1993)291

Counter-ion system peaks

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Coupled capillaries

Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157

Coupled chromatographic techniques

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Coupling efficiency

Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23

Coupling methods

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Covariance

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Critical micelle concentration

Effect of different amounts of the non-ionic detergents $C_{10}E_5$ and $C_{12}E_5$ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37

Critical point of adsorption

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide-block-propylene oxide) 623(1992)315

Critical thin-layer chromatography

Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355

Cross-axis coil planet centrifuge

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. II. Path and acceleration of coils and comparison with type J coil planet centrifuge 644(1993)231

Studies on new cross-axis coil planet centrifuge for performing counter-current chromatography. III. Speculations on the hydrodynamic mechanism in stationary phase retention 644(1993)239

Cross-flow filtration

Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3

Cross-linker concentration

Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311

Cross-validation

Inter-company cross-validation exercise on capillary electrophoresis. I. Chiral analysis of clenbuterol 641(1993)147

Crude oils

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

Rapid group-type analysis of crude oils using high-performance liquid chromatography and gas chromatography 644(1993)253

Cryofocussing

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Cryogenic concentration

Sensitive flame ionization detector for the determination of traces of atmospheric hydrocarbons by capillary column gas chromatography 642(1993)383

Cryogenic trapping

Determination of selected chlorinated benzenes in water by purging directly to a capillary column with whole column cryotrapping and electron-capture detection 629(1993)321

Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153

Crystal growth

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Crystallization

Purification, characterization and crystallization of recombinant HIV-1 reverse transcriptase 604(1992)157

Cucurbita

Stereoselective determination of cucurbitine in *Cucurbita* spp. seeds by gas chromatography and gas chromatography-mass spectrometry 625(1992)289

Current-voltage dependence

Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323

Cyanopropyl-bonded silica

Fractionation of polar organic extracts of airborne particulate matter using cyanopropyl-bonded silica in solid-phase extraction 629(1993)75

Cyclodextrin-bonded stationary phases

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Cyclodextrin-containing gels

Chiral separations by capillary electrophoresis using cyclodextrin-containing gels 608(1992)421

Cyclodextrin phases, dipentylated

Structurally informative response patterns of some monoterpenoids found in volatile oils to gas chromatography on two commercial dipentylated cyclodextrin phases 639(1993)366

D**Dabsylation**

Determination of the unusual amino acid hypusine at the lower picomole level by derivatization with 4-dimethylaminoazobenzene-4'-sulphonyl chloride and reversed-phase high-performance or medium-pressure liquid chromatography 606(1992)43

Data acquisition, computerized

Efficient computerized data acquisition and evaluation for capillary isotachopheresis in quiescent and flowing solution with single detectors placed towards the capillary end 638(1993)205

Deactivation

Polymer- and surfactant-coated capillaries for isoelectric focusing 632(1993)185

Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31

Deamidation

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Degradation kinetics

Application of high-performance liquid chromatography in the kinetic study of α -methyl dopa 623(1992)75

Degree of polymerization

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Denaturation

Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269

Densitometry

Development of a specific device for densitometry of thin-layer chromatographic sheets in planar chromatography 607(1992)159

Density gradients

Chiral separations in supercritical fluid chromatography: a multivariate optimization method 623(1992)129

Density variations

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Derivatization, electrophoresis

Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis 608(1992)239

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

Automated preseparation derivatization on a capillary electrophoresis instrument 634(1993)317

Capillary electrophoresis of *o*-phenylenediamine derivatives (quinoxalines) of dicarbonyl sugars 638(1993)343

Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337

Derivatization, GC

Determination of maleic hydrazide residues in cured tobacco by gas chromatography 604(1992)243

Determination of 3-chloropropanediol and related dioxolanes by gas chromatography 605(1992)134

Speciation of arsenic-containing chemical warfare agents by gas chromatographic analysis after derivatization with thioglycolic acid methyl ester 605(1992)257

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography–mass spectrometry 605(1992)281

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography–mass spectrometry 609(1992)297

Determination of acrylamide in rat serum and sciatic nerve by gas chromatography–electron-capture detection 619(1993)223

Gas chromatographic–mass spectrometric screening procedure for the identification of formaldehyde-derived tetrahydroisoquinolines in human urine 619(1993)235

Confirmatory analysis of clenbuterol using two different derivatives simultaneously 619(1993)243

Quantification of methylmalonic acid in serum measured by capillary gas chromatography–mass spectrometry as *tert*-butyldimethylsilyl derivatives 620(1993)1

Gas chromatography–mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives 623(1992)115

Analysis of legume oligosaccharides by high-resolution gas chromatography 623(1992)186

- Gas chromatography of fatty acids (Review) 624(1992)37
- Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239
- O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1
- Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93
- Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339
- Improved procedure for the derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 630(1993)429
- Automatic determination of N-methylcarbamate pesticides by using a liquid-liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169
- Determination of ammonia as its benzenesulphonyldimethylaminomethylene derivative in environmental water samples by gas chromatography with flame photometric detection 633(1993)311
- Determination of phenylurea pesticides in water by derivatization with heptafluorobutyric anhydride and gas chromatography-mass spectrometry 634(1993)87
- Series-coupled capillary columns for the separation of N,(O)-trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281
- Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271
- Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104
- Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography-ion-trap mass spectrometry 637(1993)167
- Determination of 22 protein amino acids as N(O)-*tert.*-butyldimethylsilyl derivatives by gas chromatography 638(1993)97
- Systematic analysis of naturally occurring linear and branched polyamines by gas chromatography and gas chromatography-mass spectrometry 641(1993)115
- Capillary gas chromatography of acidic non-steroidal antiinflammatory drugs as *tert.*-butyldimethylsilyl derivatives 641(1993)319
- 4-(Trifluoromethyl)-2,3,5,6-tetrafluorobenzyl bromide as a new electrophoric derivatizing reagent 641(1993)400
- Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227
- Gas chromatographic-mass spectrometric determination of halogenated acetic acids in water after direct derivatization 644(1993)375
- Sensitive detection of nicotine after its novel perfluoroacylation and analysis using capillary gas chromatography-electron-capture detection 645(1993)273
- Gas chromatographic-mass spectrometric study of the reductive silylation of hydroxyquinones 645(1993)293
- Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393
- Derivatization, LC**
- High-performance ion chromatographic separation of uranium and thorium in natural waters and geological materials 602(1992)119
- Separation of benz[*f*]isoindole derivatives of amino acid and amino acid amide enantiomers on a β -cyclodextrin-bonded phase 603(1992)151
- Novel polymeric reagent for synthesizing 9-fluorenylmethoxycarbonyl L-prolinyl derivatives for chiral high-performance liquid chromatography of amino acids 603(1992)279
- Determination of the unusual amino acid hypusine at the lower picomole level by derivatization with 4-dimethylaminoazobenzene-4'-sulphonyl chloride and reversed-phase high-performance or medium-pressure liquid chromatography 606(1992)43
- Sensitive and stable Cookson-type reagent for derivatization of conjugated dienes for high-performance liquid chromatography with fluorescence detection 606(1992)133
- Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorescamine derivatization 607(1992)31
- Post-column derivatization of carbohydrates with ethanolamine-boric acid prior to their detection by high-performance liquid chromatography 607(1992)191

- 9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103
- Enhancement of detection sensitivity and cleanup selectivity for tobramycin through pre-column derivatization 609(1992)173
- High-performance liquid chromatographic determination of amino acids in protein hydrolysates and in plasma using automated pre-column derivatization with *o*-phthalaldehyde/2-mercaptoethanol 613(1993)35
- Simultaneous determination of cholesterol and cholestanol in human serum by high-performance liquid chromatography using 3-(5,6-methylenedioxy-2-phthalimidyl)benzoyl azide as precolumn fluorescent labelling reagent 617(1993)213
- Rapid and highly sensitive high-performance liquid chromatographic method for the determination of histamine and 3-methylhistamine in biological samples using fluorecamine as the derivatizing agent 617(1993)233
- 2-(4-Hydrazinocarbonylphenyl)-4,5-diphenylimidazole as a versatile fluorescent derivatization reagent for the high-performance liquid chromatographic analysis of free fatty acids 619(1993)1
- Direct determination of adamantanamine in plasma and urine with automated solid phase derivatization 619(1993)93
- Electrochemical detection of cobalt in hair following on-column derivatization with 1-(2-pyridylazo)-2-naphthol-6-sulphonic acid and reversed-phase liquid chromatography 619(1993)103
- High-performance liquid chromatographic assay for N²-[5-(hypoxanthin-9-yl)pentylloxycarbonyl]-L-arginine (ST 789) in plasma by cyclization with benzoin and fluorimetric detection 619(1993)167
- Determination of free N-acetylneuraminic acid in human body fluids by high-performance liquid chromatography with fluorimetric detection 620(1993)25
- Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39
- Systematic approach to the development of plasma amino acid analysis by high-performance liquid chromatography with ultraviolet detection with precolumn derivatization using phenyl isothiocyanate 621(1993)15
- Specific and sensitive high-performance liquid chromatographic method with fluorescence detection for measurement of lometrexol and its polyglutamates in biologic samples 621(1993)55
- Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133
- High-performance liquid chromatographic determination of N-nitroso-N-alkylureas by pre-column fluorescence derivatization and application to blood analysis 621(1993)157
- Determination of diaminopimelic acid in biological materials using high-performance liquid chromatography 623(1992)63
- Enantioseparation of amino compounds by derivatization with *o*-phthalaldehyde and D-3-mercapto-2-methylpropionic acid 623(1992)237
- Phycotoxins in seafood —toxicological and chromatographic aspects (Review) 624(1992)439
- Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulphoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(*trans*-1-propenyl)-L-cysteine 625(1992)183
- Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357
- Applicability of a postcolumn photochemical reactor in the high-performance liquid chromatography of 34 polyphenolic compounds with UV detection 626(1992)117
- Resolution of the enantiomers of thiol compounds by reversed-phase liquid chromatography using chiral derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyante 626(1992)187
- High-performance liquid chromatographic separation of metal ions using aspartic acid β -hydroxamate as a model siderophore 626(1992)277
- Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289
- Determination of fatty acids in fish oil dietary supplements by capillary liquid chromatography with laser-induced fluorescence detection 627(1992)87
- Use of chiral monohalo-*s*-triazine reagents for the liquid chromatographic resolution of DL-amino acids 627(1992)97
- High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199
- High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography—electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35

- High-performance liquid chromatographic enantioseparation of glycyl di- and tripeptides on native cyclodextrin bonded phases. Mechanistic considerations 629(1993)169
- Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215
- Determination of hyaluronic acid by high-performance liquid chromatography of the oligosaccharides derived therefrom as 1-(4-methoxy)phenyl-3-methyl-5-pyrazolone derivatives 630(1993)141
- High-performance liquid chromatographic determination of methanesulphonic acid as a method for the determination of hydroxyl radicals 630(1993)187
- Adsorption losses during extraction and derivatization efficiency by benzylation of plant putrescine for high-performance liquid chromatographic analysis 630(1993)397
- Determination of oxiracetam in human plasma by reversed-phase high-performance liquid chromatography with fluorimetric detection 631(1993)227
- Column-switching high-performance liquid chromatographic method for the determination of SK&F 106203 in human plasma after fluorescence derivatization with 9-anthryldiazomethane 631(1993)233
- Size-exclusion chromatographic determination of β -glucan with postcolumn reaction detection 632(1993)105
- High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone chelates 633(1993)129
- 2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287
- Semi-automated chromatographic procedure for the isolation of acetylated N-terminal fragments from protein digests 634(1993)241
- Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89
- Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251
- Determination of the neurolathrogen β -N-oxalyl-L- α,β -diaminopropionic acid using high-performance liquid chromatography with fluorometric detection 635(1993)338
- Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231
- Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29
- Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43
- Liquid chromatography-mass spectrometry of fatty acids including hydroxy and hydroperoxy acids as their 3-methyl-7-methoxy-1,4-benzoxazin-2-one derivatives 639(1993)165
- Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175
- Determination of cadmium and lead at $\mu\text{g/l}$ levels in aqueous matrices by chelation ion chromatography 640(1993)207
- Improved method for the determination of manganese in nuclear power plant waters 640(1993)371
- Liquid chromatographic chiral separations of the N-6-(*endo*-2-norbornyl)-9-methyladenine enantiomers 641(1993)39
- Determination of proline by reversed-phase high-performance liquid chromatography with automated pre-column *o*-phthalaldehyde derivatization 641(1993)168
- New labelling agent, 2-[2-(isocyanate)ethyl]-3-methyl-1,4-naphthoquinone, for high-performance liquid chromatography of hydroxysteroids with electrochemical detection 641(1993)176
- Reversed-phase high-performance liquid chromatographic determination of sulphide in an aqueous matrix using 2-iodo-1-methylpyridinium chloride as a precolumn ultraviolet derivatization reagent 641(1993)184
- High-performance liquid chromatography of guanine and its nucleosides and nucleotides by pre-column fluorescence derivatization with phenylglyoxal reagent 641(1993)235
- Enantiomeric separation of fluorescent, 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate, tagged amino acids 641(1993)257
- Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35
- Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Analysis of paralytic shellfish poisoning toxins by automated pre-column oxidation and microcolumn liquid chromatography with fluorescence detection 644(1993)321

Determination of polar pesticides by phase-transfer catalysed derivatization and negative-ion chemical ionization gas chromatography-mass spectrometry 644(1993)357

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Characterization of vitamin D₃ metabolites using continuous-flow fast atom bombardment tandem mass spectrometry and high-performance liquid chromatography 645(1993)115

Some aspects of the enantiorecognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocinamide and mexiletine as model compounds 645(1993)233

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

Determination of malonaldehyde by coupled high-performance liquid chromatography-spectrofluorimetry after derivatization with luminarin 3 648(1993)111

Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatization with pyridinium bromide perbromide 648(1993)485

Derivatization, on-line

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Derivatization, SFC

Boronic esters as derivatives for supercritical fluid chromatography of ecdysteroids 639(1993)281

Derivatization, SFE

Determination of phenolics from sediments of pulp mill origin by *in situ* supercritical carbon dioxide extraction and derivatization 636(1993)263

Derivatization, TLC

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Dermocybe sanguinea

Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423

Desalting

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Descriptors

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Desorption

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Detection enhancement

Enhancement of detection sensitivity and cleanup selectivity for tobramycin through pre-column derivatization 609(1992)173

Detection limits

Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119

Estimation of the lower limit of quantitation, a method detection performance parameter for biomedical assays, from calibration curves 612(1993)71

Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53

Detectors, electrophoresis

Simple multi-point detection method for high-performance capillary electrophoresis 604(1992)85

Laser fluorescence detector for capillary electrophoresis 608(1992)73

- Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85
- Theoretical and experimental aspects of indirect detection in capillary electrophoresis 608(1992)97
- Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Detection at the zeptomol level of tetramethylrhodamine thiocarbonyl amino acid derivatives 608(1992)117
- Application of capillary isoelectric focusing with universal concentration gradient detector to the analysis of protein samples 608(1992)121
- Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis-electrochemistry 608(1992)189
- Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341
- On-column detection in capillary zone electrophoresis with ion-selective microelectrodes in conical capillary apertures 633(1993)207
- Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. IV. Separation of metal ions in a non-radioactive model solution of a high-level liquid waste 633(1993)261
- Diode laser-based indirect absorbance detector for capillary electrophoresis 636(1993)39
- Efficient computerized data acquisition and evaluation for capillary isotachopheresis in quiescent and flowing solution with single detectors placed towards the capillary end 638(1993)205
- Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215
- End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433
- Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208
- β^+ -Selective radiodetector for capillary electrophoresis 645(1993)319
- Detectors, GC**
Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233
- Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73
- Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203
- Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295
- Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305
- Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151
- Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271
- Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1
- Potential variability problems with the alkali flame ionization detector used in gas chromatography 639(1993)363
- Quenching in the flame photometric detector 641(1993)291
- Sensitive flame ionization detector for the determination of traces of atmospheric hydrocarbons by capillary column gas chromatography 642(1993)383
- Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435
- Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349
- Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153
- Detectors, LC**
Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33
- Vitamin D determination using high-performance liquid chromatography with internal standard-redox mode electrochemical detection and its application to medical nutritional products 605(1992)215
- Determination of alkaline phosphatase aggregation by size exclusion high-performance liquid chromatography with low-angle laser light scattering detection 606(1992)264

- Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89
- Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357
- Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59
- Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71
- High-performance liquid chromatography using continuous on-line post-elution photoradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143
- Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133
- Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221
- Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111
- On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65
- High-performance liquid chromatographic separation and electrochemical detection of penicillins 633(1993)111
- Sensitive assay system for nitrosamines utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 634(1993)221
- Estimation of inter-detector lag in multi-detection gel permeation chromatography 635(1993)132
- Multichannel coulometric detection coupled with liquid chromatography for determination of phenolic esters in honey 635(1993)137
- Design of a differential pressure detector for use in the size-exclusion chromatography of polymers 637(1993)129
- Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1
- Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9
- Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography —the current state of research (Review) 640(1993)79
- New membrane-based electrolytic suppressor device for suppressed conductivity detection in ion chromatography 640(1993)97
- Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319
- Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17
- High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83
- Laser-based double beam absorption detector for high-performance liquid chromatography 645(1993)201
- Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209
- Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265
- Mean square radius of molecules and secondary instrumental broadening 648(1993)27
- Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245
- Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283
- Detectors, SFC**
Development of directly coupled supercritical fluid chromatography with packed capillary column—mass spectrometry with atmospheric pressure chemical ionization 605(1992)87
- Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323
- Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53
- Optimization of a flame photometric detector for supercritical fluid chromatography of organotin compounds 636(1993)277
- Detectors, TLC**
Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Thin-layer chromatography–flame ionization detection
Iatroscan system (Review) 624(1992)21

Deuteriation

Gas chromatography–mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

Deuterium isotope effect

Unusual deuterium isotope effect on the retention of formamides in gas–liquid chromatography 641(1993)194

Dialysis

Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography–mass spectrometry 621(1993)41

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Diastereomers

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Diastereomer separation

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

Separation of neuropeptide Y diastereomers by high-performance liquid chromatography and capillary zone electrophoresis 648(1993)257

Diesel exhaust

Supercritical fluid extraction of nitrated polycyclic aromatic hydrocarbons and polycyclic aromatic hydrocarbons from diesel exhaust particulate matter 609(1992)333

Diesel fuel

Validation of the aromatic ring distribution in diesel fuel refinery streams by supercritical fluid chromatography and mass spectrometry 637(1993)181

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography–mass spectrometry 641(1993)347

Differential pressure detector

Design of a differential pressure detector for use in the size-exclusion chromatography of polymers 637(1993)129

Diffusion

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Diffusional transport phenomena

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Diffusion coefficients

Measurement of infinite dilution diffusion coefficients of ϵ -caprolactam in nylon 6 at elevated temperatures by inverse gas chromatography 607(1992)145

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

Diffusive sampling

Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35

Digitalis

High-performance liquid chromatographic determination of cardenolides in *Digitalis* leaves after solid-phase extraction 630(1993)402

Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319

Dimerization

Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161

Diode-array detector

High-performance liquid chromatography–diode-array detection of photosynthetic pigments 607(1992)215

High-performance liquid chromatography using continuous on-line post-elution photoradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Faster quantitative evaluation of high-performance liquid chromatography–ultraviolet diode-array data by multicomponent analysis 631(1993)15

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Diode-pumped solid-state lasers

Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245

Dipole-dipole stacking

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Some aspects of the enantio-recognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233

Direct barbituric acid assay

Simple high-performance liquid chromatographic method to verify the direct barbituric acid assay for urinary cotinine 620(1993)254

Direct injection

9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103

Determination of a new antibacterial agent (Ro 23-9424) by multidimensional high-performance liquid chromatography with ultraviolet detection and direct plasma injection 620(1993)211

Simple direct injection high-performance liquid chromatographic method to determine quinidine in plasma 620(1993)278

Direct liquid introduction

Micro liquid chromatography-mass spectrometry with direct liquid introduction used for separation and quantitation of all-*trans*- and 13-*cis*-retinoic acids and their 4-oxo metabolites in human plasma 617(1993)129

Discontinuous buffer systems

Analytical and micro-preparative separation of peptides by capillary zone electrophoresis using discontinuous buffer systems 623(1992)345

Discontinuous theoretical plate model

Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161

Dispersion

Dispersion in stacked-membrane chromatography 603(1992)43

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13

Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Dispersion index

Dispersion and selectivity indices of *n*-alkyl- and 1-(alkyl)alkylbenzenes 623(1992)178

Displacement chromatography

Purification of complex protein mixtures by ion-exchange displacement chromatography using spacer displacers 604(1992)39

Rapid displacement chromatography of melittin on micropellicular octadecyl-silica 604(1992)47

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

High-performance chiral displacement chromatographic separations in the normal-phase mode. II. Separation of the enantiomers of 1,2-O-dihexadecyl-*rac*-type naphthylalanine silica stationary phase 646(1993)259

Displacement electrophoresis

see Isotachophoresis

Displacer concentration

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Displacers

Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37

Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

Displacing salts

Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107

Dissociation constants

Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333

Distillation-extraction, simultaneous

Simultaneous distillation-extraction under static vacuum: isolation of volatile compounds at room temperature 606(1992)87

Distribution constants

Mixed retention mechanism in gas-liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225

Distribution isotherms

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

Dithiocarbamate resin-metal complexes

Application of dithiocarbamate resin-metal complexes as stationary phases in gas chromatography 630(1993)275

DNA affinity ligands

Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151

DNA fingerprinting

Checking of individuality by DNA profiling (Review) 618(1993)167

DNA sequencing

Effect of total percent polyacrylamide in capillary gel electrophoresis for DNA sequencing of short fragments. A phenomenological model 608(1992)143

Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311

Doehlert design

Simultaneous optimization of pH and organic modifier content of the mobile phase for the separation of chlorophenols using a Doehlert design 628(1993)171

Double-beam absorption detector, laser-based

Laser-based double beam absorption detector for high-performance liquid chromatography 645(1993)201

Downstream processing

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Drinking water

Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117

Pollutants in drinking water and waste water 643(1993)145

Drug-melanin binding

Prediction of drug binding to melanin using a melanin-based high-performance liquid chromatographic stationary phase and chemometric analysis of the chromatographic data 615(1993)281

Drug monitoring

Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137

Drug-protein binding parameters

Hummel-Dreyer method in high-performance liquid chromatography for the determination of drug-protein binding parameters 648(1993)325

Drug related impurities

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Drug screening

Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335

Drylab software

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

Dual-beam thermospray system

Applications of dual-beam thermospray liquid chromatography-mass spectrometry 647(1993)73

Dual-column techniques

Dual-column techniques for the simultaneous analysis of anions and cations 602(1992)127

Dual-isotope methods

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

Quantitative comparisons using gas chromatography-mass spectrometry and dual-isotope techniques for detection of isotope and impurity interferences 639(1993)215

Dye affinity adsorbents

Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411

Dye affinity chromatography

Chromatographic profiles of cyanogen bromide fragments of unreduced human serum albumin on immobilized Cibacron Blue F3G-A 639(1993)341

Dye-coated phases

Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97

Dynamic adsorption

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Dynamically modified stationary phases

Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101

Dynamic capacity

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Dynamic elution

Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309

Dynamic exchange reactions

Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography–mass spectrometry 647(1993)31

Dynamic light scattering

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Dynamic light-scattering studies of hydroxyethyl cellulose solutions used as sieving media for electrophoretic separations 608(1992)79

Dynamic range

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

Dynamic solid-phase extraction

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Dynamic surfactant coatings

Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115

E**Effective mobility**

Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233

Electric field strength

Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375

Electrochemical detector

Vitamin D determination using high-performance liquid chromatography with internal standard–redox mode electrochemical detection and its application to medical nutritional products 605(1992)215

Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis–electrochemistry 608(1992)189

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

Multichannel coulometric detection coupled with liquid chromatography for determination of phenolic esters in honey 635(1993)137

Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1

Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79

End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433

Electrochemical suppressor

New membrane-based electrolytic suppressor device for suppressed conductivity detection in ion chromatography 640(1993)97

Electrochromatography

Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397

Pseudo-electrochromatography-negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375

Electrodialysis

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Electrodialysis for clean-up of strongly alkaline samples in ion chromatography 640(1993)135

Electroelution

Simple device for electroelution of proteins from a large number of pieces of polyacrylamide gel 635(1993)329

Electrokinetic systems

Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181

Electrolyte composition

Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249

Electrolyte mobility

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

Electrolyte systems

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4–10 628(1993)283

Options in electrolyte systems in combined capillary isotachophoresis and capillary zone electrophoresis 638(1993)119

Electromigration

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Axial temperature effects in electromigration 644(1993)161

Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233

Electromigration time

Influence of column temperature and physico-chemical properties on the electrophoretic behaviour of polyglycine peptides in free-solution capillary electrophoresis 644(1993)175

Electron-acceptor stationary phases

Separation of tetrachloro-*p*-dioxin isomers by high-performance liquid chromatography with electron-acceptor and electron-donor stationary phases 634(1993)169

Electron capture detector

Determination of selected chlorinated benzenes in water by purging directly to a capillary column with whole column cryotrapping and electron-capture detection 629(1993)321

Electron-donor stationary phases

Separation of tetrachloro-*p*-dioxin isomers by high-performance liquid chromatography with electron-acceptor and electron-donor stationary phases 634(1993)169

Electron spin resonance spectroscopy

Nitroxide radicals in studies of the fine bonded layer structure of modified silicas 646(1993)267

Electroosmotic flow

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157

Observation of flow profiles in electroosmosis in a rectangular capillary 632(1993)201

Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21

Electroosmotic flow gradient

Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65

Electroosmotic zone displacement

Experimental aspects of capillary isoelectric focusing with electroosmotic zone displacement 638(1993)187

Electrophoresis

see also Capillary electrophoresis

Lectin affinity electrophoresis of α -fetoprotein. Increased specificity and sensitivity as a marker of hepatocellular carcinoma 604(1992)91

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)-adenosine diphosphate nitrilotriacetate system 606(1992)147

Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113

Sample self-stacking in zone electrophoresis. Theoretical description of the zone electrophoretic separation of minor compounds in the presence of bulk amounts of a sample component with high mobility and like charge 608(1992)47

Chiral separation by analytical electromigration methods (Review) 609(1992)1

Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Axial temperature effects in electromigration 644(1993)161

Electrophoretic equipment

Equipment for multifunctional use in high-performance capillary electrophoresis 638(1993)147

Electrophoretic mobility

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375

Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329

Prediction of the migration behavior of organic acids in micellar electrokinetic chromatography 632(1993)177

Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenopfen and ibuprofen 635(1993)291

Theory of chiral separation in capillary electrophoresis 636(1993)57

Oligoglycines and oligoalanines as tests for modelling mobility of peptides in capillary electrophoresis 636(1993)81

Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155

Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311

Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337

The analysis of multiple phosphoserine-containing casein peptides using capillary zone electrophoresis 646(1993)391

Electrophoretic theory

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Electrospray ionization

Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Liquid chromatography-electrospray ionization-mass spectrometry of cyanobacterial toxins 628(1993)215

Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9

Optimization of capillary zone electrophoresis-electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169

Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography-mass spectrometry 647(1993)31

Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167

Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279

Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351

Electrostatic interactions

Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

Electrotopological state atom index

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Elemental analysis

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion-ion chromatography technique 640(1993)111

Elemental diet

Determination of ascorbic acid in elemental diet by high-performance liquid chromatography with electrochemical detection 606(1992)277

Determination of folic acid in an elemental diet by high-performance liquid chromatography with UV detection 609(1992)399

Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection 625(1992)377

Elemental specificity

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Element specific detectors

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Eluent strength

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

Elution order

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Elution profiles

Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Hummel-Dreyer method in high-performance liquid chromatography for the determination of drug-protein binding parameters 648(1993)325

Elution scheme

Alternatives to methanol-water elution of solid-phase extraction columns for the fractionation of high $\log K_{ow}$ organic compounds in aqueous environmental samples 629(1993)67

Emission detectors, full-spectrum

Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319

EMIT

Validation of the analysis of carbamazepine and its 10,11-epoxide metabolite by high-performance liquid chromatography from plasma: comparison with gas chromatography and the enzyme-multiplied immunoassay technique 620(1993)169

Empore disk

Solid-phase sample preparation of natural waters with reversed-phase disks 629(1993)41

Emulsions

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Enantiomer fractionation

Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329

Enantiomeric composition

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Enantiomeric purity

Validation of a capillary electrophoresis method for the enantiomeric purity testing of fluparoxan 645(1993)193

Enantiomer interconversion

Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101

Enantiomer separation

Direct resolution of organic acid enantiomers on a novel polymer-based stationary phase 602(1992)21

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133

SUBJECT INDEX

- Separation of benz[*f*]isoindole derivatives of amino acid and amino acid amide enantiomers on a β -cyclodextrin-bonded phase 603(1992)151
- Theoretical aspects of chiral separation in capillary electrophoresis. I. Initial evaluation of a model 603(1992)235
- Quantitation of *l*-epinephrine and determination of the *d*/*l*-epinephrine enantiomer ratio in a pharmaceutical formulation by capillary electrophoresis 603(1992)298
- Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185
- High-performance liquid chromatographic determination of the enantiomeric excess of 1,3-glyceryl diethers obtained by stereoselective catalytic reduction 604(1992)197
- Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19
- Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33
- Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103
- Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161
- Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269
- Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33
- Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288
- Concerning the role of face-to-edge π - π interactions in chiral recognition 607(1992)126
- Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265
- Chiral separations by capillary electrophoresis using cyclodextrin-containing gels 608(1992)421
- Chiral separation by analytical electromigration methods (Review) 609(1992)1
- Chiral high-performance liquid chromatographic separations of vinca alkaloid analogues on α_1 -acid glycoprotein and human serum albumin columns 609(1992)163
- Chiral separation of nipecotic acid amides 609(1992)187
- Theoretical aspects of chiral separation in capillary electrophoresis. II. The role of organic solvent 609(1992)363
- High-performance liquid chromatographic method for the enantiomeric separation of the chiral metabolites of midazolam 609(1992)395
- Determination of the *R,R*- and *S,S*-enantiomers of vamicamide in human serum and urine by high-performance liquid chromatography on a Chiral-AGP column 617(1993)279
- Direct enantiomeric separation of *cis*-(\pm)diltiazem in plasma by high-performance liquid chromatography with ovomucoid column 619(1993)87
- Improved column-switching liquid chromatographic method for the determination of the enantiomers of mefloquine 619(1993)161
- Sensitive determination of bisoprolol enantiomers in plasma and urine by high-performance liquid chromatography using fluorescence detection, and application to preliminary study in humans 619(1993)267
- Stereospecific high-performance liquid chromatographic assay of ibuprofen: improved sensitivity and sample processing efficiency 619(1993)330
- Stereoselective high-performance liquid chromatographic assay for the determination of OPC-18790 enantiomers in human plasma and urine 620(1993)97
- Simple and rapid method for the determination of the diastereomers of difenacoum in blood and liver using high-performance liquid chromatography with fluorescence detection 620(1993)105
- Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199
- Enantioselective high-performance liquid chromatographic determination of (*SR*)- and (*RS*)-mefloquine in plasma using *N*-benzyloxycarbonyl-glycyl-L-proline as chiral counter ion 620(1993)217
- Evaluation of the stereoselective metabolism of the chiral analgesic drug etodolac by high-performance liquid chromatography 621(1993)199
- Determination of the enantiomers of ifosfamide and its 2- and 3-*N*-dechloroethylated metabolites in plasma and urine using enantioselective gas chromatography with mass spectrometric detection 622(1993)21

- Chiral high-performance liquid chromatography and gas chromatography of the stereoisomers of hexyl 2,5-dichlorophenyl phosphoramidate 622(1993)179
- Identification and determination of the enantiomers of moprolool and their metabolites in human urine by high-performance liquid chromatography and gas chromatography-mass spectrometry 622(1993)187
- High-performance liquid chromatographic separation of ondansetron enantiomers in serum using a cellulose-derivatized stationary phase and solid-phase extraction 622(1993)291
- Efficient enantioselective separation and determination of trace impurities in secondary amino acids (*i.e.*, imino acids) 623(1992)33
- Chiral separations in supercritical fluid chromatography: a multivariate optimization method 623(1992)129
- Direct liquid chromatographic separation of the enantiomers of a 1,3-dihydrophenylindol-2-one and of a 2,3-dihydro-2-oxo-benzofuran derivative 623(1992)159
- Separation of the enantiomers of some potassium channel activators using an α_1 -acid glycoprotein column 623(1992)163
- Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221
- Enantioseparation of amino compounds by derivatization with *o*-phthalaldehyde and *D*-3-mercapto-2-methylpropionic acid 623(1992)237
- Use of chromatographic peak-heights ratios for quantitative analysis: application to the separation of enantiomers 623(1992)371
- Preparative separation and analysis of the enantiomers of [^{14}C]Zileuton, a 5-lipoxygenase inhibitor 623(1992)390
- Improved crown ether-based chiral stationary phase 625(1992)101
- Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109
- Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163
- Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223
- Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231
- Stereoselective determination of cucurbitine in *Cucurbita* spp. seeds by gas chromatography and gas chromatography-mass spectrometry 625(1992)289
- Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349
- Optimization of naphthylethylurea multiple-bonded chiral stationary phases for optical resolution of enantiomeric amino acid derivatives 625(1992)353
- Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357
- Resolution of the enantiomers of thiol compounds by reversed-phase liquid chromatography using chiral derivatization with 2,3,4,6-tetra-*O*-acetyl- β -*D*-glucopyranosyl isothiocyanate 626(1992)187
- Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197
- Investigation of the effect of acylation on the enantiomeric separation of amino acid isopropyl esters by gas chromatography 626(1992)231
- Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75
- Use of chiral monohalo-*s*-triazine reagents for the liquid chromatographic resolution of DL-amino acids 627(1992)97
- Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11
- Separation and identification of free amino acid enantiomers in peat by capillary gas chromatography 628(1993)269
- High-performance liquid chromatographic enantioseparation of glyceryl di- and tripeptides on native cyclodextrin bonded phases. Mechanistic considerations 629(1993)169
- Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215
- Enantiomer separations of secondary alkanols with little asymmetry by high-performance liquid chromatography on chiral columns 629(1993)385
- Modeling of the adsorption behavior and the chromatographic band profiles of enantiomers. Behavior of methyl mandelate on immobilized cellulose 630(1993)21

- Functionalized polymer particles for chiral separation 630(1993)79
- Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353
- Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37
- Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79
- Analytical and preparative high-performance liquid chromatographic separation of thienopyran enantiomers 631(1993)173
- Enantiomer separation by high-performance liquid chromatography with copper(II) complexes of Schiff bases as chiral stationary phases 631(1993)177
- Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183
- Direct chiral separation of almokalant on Chiralcel OD and Chiralpak AD for liquid chromatographic assay of biological samples 631(1993)191
- Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73
- Direct high-performance liquid chromatographic resolution of 2-aryl- and 2-heteroarylpropionic acids on a chiral stationary phase containing the N,N'-dinitrobenzoyl derivative of (1*R*,2*R*)-diaminocyclohexane 633(1993)81
- Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)89
- Separation of Beraprost sodium isomers using different cyclodextrin stationary phases 633(1993)97
- Recognition of enantiomers by ChiralSil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65
- Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119
- Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197
- Rapid and complete chiral chromatographic separation of racemic quaternary tropane alkaloids. Complementary use of a cellulose-based chiral stationary phase in reversed-phase and normal-phase modes—a mechanistic study 634(1993)205
- Preparative resolution of praziquantel enantiomers by simulated counter-current chromatography 634(1993)215
- Automated preseparation derivatization on a capillary electrophoresis instrument 634(1993)317
- Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345
- Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31
- Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113
- Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119
- Liquid chromatographic separation of radiopharmaceutical ligand enantiomers 635(1993)203
- Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenopfen and ibuprofen 635(1993)291
- Adsorption chromatography on cellulose. IX. Chiral separations with aqueous solvents and liquid-liquid systems 635(1993)346
- Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47
- Theory of chiral separation in capillary electrophoresis 636(1993)57
- Differential binding of tioconazole enantiomers to hydroxypropyl- β -cyclodextrin studied by capillary electrophoresis 636(1993)149
- Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231
- Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13
- Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19
- Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29

- (Enantio-)separation of phenoxy acid herbicides using capillary zone electrophoresis 637(1993)81
- Semi-preparative high-performance liquid chromatographic resolution of brompheniramine enantiomers using β -cyclodextrin in the mobile phase 637(1993)137
- Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85
- Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247
- Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255
- Chiral separation of β -blockers by high-performance capillary electrophoresis based on non-immobilized cellulase as enantioselective protein 638(1993)263
- Chiral packing materials for high-performance liquid chromatographic resolution of enantiomers based on substituted branched polysaccharides coated on silica gel 639(1993)141
- Enantiomeric separation of amino alcohols on dinitrobenzoyl-diaminocyclohexane chiral stationary phases 639(1993)193
- Gas chromatographic separation of diastereoisomeric and enantiomeric forms of some fluorinated amino acids on glass capillary columns 639(1993)273
- Comments on a report of the separation of the enantiomers of π -donor analytes on π -donor chiral stationary phases 639(1993)329
- Separation of diastereomeric derivatives of enantiomers by capillary zone electrophoresis with a polymer network: use of polyvinylpyrrolidone as buffer additive 639(1993)375
- High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31
- Liquid chromatographic chiral separations of the N-6-(endo-2-norbornyl)-9-methyladenine enantiomers 641(1993)39
- Inter-company cross-validation exercise on capillary electrophoresis. I. Chiral analysis of clenbuterol 641(1993)147
- Isomeric separation of Beraprost sodium using an α_1 -acid glycoprotein column 641(1993)249
- Enantiomeric separation of fluorescent, 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate, tagged amino acids 641(1993)257
- Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202
- High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277
- Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α_1 -acid glycoprotein chiral stationary phase 644(1993)315
- Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17
- Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67
- Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75
- Direct separation of 4-amino-3-(4-chlorophenyl)butyric acid and analogues, GABA_B ligands, using a chiral crown ether stationary phase 645(1993)95
- High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues 645(1993)107
- Some aspects of the enantiorecognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233
- Characterization of the binding and chiral separation of D- and L-tryptophan on a high-performance immobilized human serum albumin column 645(1993)241
- Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245
- High-performance chiral displacement chromatographic separations in the normal-phase mode. II. Separation of the enantiomers of 1,2-O-dihexadecyl-*rac*-type naphthylalanine silica stationary phase 646(1993)259
- Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101
- Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119
- Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267

Chiral stationary phases based on intact and fragmented cellobiohydrolase I immobilized on silica 648(1993)333

Analytical and preparative resolution of enantiomers of verapamil and norverapamil using a cellulose-based chiral stationary phase in the reversed-phase mode 648(1993)381

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Enantioselectivity

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

Concerning the role of face-to-edge π - π interactions in chiral recognition 607(1992)126

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glycerinaldehyde, formaldehyde and glutaric anhydride 631(1993)183

Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)89

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Comments on a report of the separation of the enantiomers of π -donor analytes on π -donor chiral stationary phases 639(1993)329

Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11

Use of homologous series of analytes as mechanistic probes to investigate the origins of enantioselectivity on two chiral stationary phases 641(1993)21

End-column ultramicroelectrode

End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433

End-group determination

Gas chromatography-mass spectrometry method for the determination of the reducing end of oligo- and polysaccharides 606(1992)285

Endosmotic mobility

Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267

Enthalpy

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Entropy production

Golay's paradox: linear *versus* non-linear chromatography 634(1993)334

Environmental analysis

See also Special issue index

Environmental analysis

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Optimization of injection technique in capillary ion electrophoresis for the determination of trace level anions in environmental samples 640(1993)481

Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53

High-performance liquid chromatographic methods for the determination of N-methylcarbamate pesticides in water, soil, plants and air (Review) 642(1993)89

Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117

Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135

- Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163
- Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175
- Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225
- Liquid-gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243
- Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253
- Supercritical fluid extraction in environmental analysis (Review) 642(1993)283
- Determination of polycyclic aromatic hydrocarbons by liquid chromatography 642(1993)329
- Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371
- Retention characteristics of some volatile compounds on Tenax GR 642(1993)379
- Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417
- Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425
- Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435
- Planar layer chromatography in the analysis of inorganic pollutants (Review) 642(1993)445
- Chromatographic techniques used to determine benz[c]acridines in environmental samples (Review) 643(1993)1
- Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91
- Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography-electrochemical detection 643(1993)107
- Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117
- Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia 643(1993)189
- Solid-phase extraction followed by high-performance liquid chromatographic analysis for monitoring herbicides in drinking water 643(1993)203
- Determination of resin acids by gas chromatography and high-performance liquid chromatography in paper mill effluent, river waters and sediments from the upper Derwent Estuary, Tasmania 643(1993)209
- Determination of the potent mutagen 3-chloro-4-dichloromethyl-5-hydroxy-2(5*H*)-franone (MX) in water by gas chromatography with electron-capture detection 643(1993)221
- Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227
- Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239
- Determination of benomyl and its degradation products by chromatographic methods in water, wettable powder formulations, and crops (Review) 643(1993)249
- Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261
- Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363
- Organic micropollutants in Swiss sewage sludge 643(1993)379
- Ion chromatographic investigation of brown algae (*Fucus vesiculosus*) of the German Environmental Specimen Bank 643(1993)427
- Identification and quantification of 18-nor- and 19-norditerpenes and their chlorinated analogues in samples of sediment and fish 643(1993)439
- Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307
- On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Environmental legislation

Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75

Environmental Protection Agency, monitoring programmes

Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75

Enzymatic reactions

Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265

Enzyme-linked immunosorbent assay

Development of an enzyme-linked immunosorbent assay for C.I. Reactive Blue 2 and its application to a comparison of the stability and performance of a perfluorocarbon support with other immobilised C.I. Reactive Blue 2 affinity adsorbents 623(1992)1

Enzyme activity

High-performance capillary electrophoretic analysis of chloramphenicol acetyl transferase activity 603(1992)247

Enzyme assays

Ultramicro enzyme assays in a capillary electrophoretic system 608(1992)217

Enzyme reactors, immobilized

Simultaneous determination of glucose and 1-deoxyglucose in serum by anion-exchange chromatography with an immobilized pyranose oxidase reactor 620(1993)9

Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289

Eosinophilia-myalgia syndrome

Separation and isolation of trace impurities in L-tryptophan by high-performance liquid chromatography 630(1993)147

Epoxy curing agent

Determination of anions in an epoxy curing agent by ion chromatography 640(1993)355

Error propagation

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Erythrocyte membranes

High-performance hydroxyapatite chromatography of integral membrane proteins and water-soluble proteins in complex with sodium dodecyl sulphate 604(1992)95

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Erythrocytes

Erythrocyte partitioning in dextran-poly(ethylene glycol) aqueous phase systems. Events in phase and cell separation 609(1992)219

Immobilized metal ion affinity partitioning of erythrocytes from different species in dextran-poly(ethylene glycol) aqueous phase systems 641(1993)279

Escherichia coli

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Essential oils

Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305

Evaluation of series-coupled gas chromatographic capillaries of different polarities. Application to the resolution of problem pairs of constituents in Algerian cypress essential oil 633(1993)163

Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297

Ethylene oxide oligomer distribution

Rapid separation of non-ionic surfactants of polyethoxylated octylphenol and determination of ethylene oxide oligomer distribution by C1 column reversed-phase liquid chromatography 637(1993)145

Ethylvinylbenzene-divinylbenzene packings

Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75

***Euphorbia* species**

Determination of ingenol in homoeopathic mother tinctures of *Euphorbia* species by high-performance liquid chromatography 637(1993)206

EUROCORE

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

Evaporative light scattering detector

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Evaporite genesis

Quantitative analysis of fluid inclusions in evaporites by ion chromatography 640(1993)279

Exchange capacity

Ion chromatography of metal cations on carboxylic acid resins 602(1992)111

Exclusion

History of a theory 633(1993)1

Experimental design

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Optimization strategy for reversed-phase liquid chromatography of peptides 639(1993)117

Expert systems

Expert system for ion chromatographic methods using dynamically coated ion-interaction separation 602(1992)9

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

Exponentially modified Gaussian model

New approach for area determination of an overlapped pair of chromatographic peaks 623(1992)366

Extra-column band broadening

Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

Extraction

Adsorption losses during extraction and derivatization efficiency by benzylation of plant putrescine for high-performance liquid chromatographic analysis 630(1993)397

Extraction cells

Construction of a robust stainless-steel clad fused-silica restrictor for use in supercritical fluid extraction 648(1993)445

Extraction chromatography

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Extraction disks

Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125

Extraction kinetics

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Extraction methods

Determination of maleic hydrazide residues in cured tobacco by gas chromatography 604(1992)243

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

In situ extraction and derivatization of pentachlorophenol and related compounds from soils using a supercritical fluid extraction system 605(1992)109

Evaluation of the liquid-liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

Recovery of diesel fuel from clays by supercritical fluid extraction-gas chromatography 606(1992)221

Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorescamine derivatization 607(1992)31

Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154

Solid-phase extraction of prostanoids using an automatic sample preparation system 607(1992)239

Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques 607(1992)319

Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377

Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321

Identification and determination of mellein in cultures of the fungus *Septoria nodorum* (Berk.) by thin-layer and high-performance liquid chromatography 609(1992)349

Determination of benidipine hydrochloride in human plasma by capillary column gas chromatography-negative ion chemical ionization mass spectrometry 617(1993)59

Micro liquid chromatography-mass spectrometry with direct liquid introduction used for separation and quantitation of all-*trans*- and 13-*cis*-retinoic acids and their 4-oxo metabolites in human plasma 617(1993)129

- Determination of phloroglucinol in human plasma by gas chromatography–mass spectrometry 617(1993)140
- Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181
- Improved method to extract and concentrate porphyrins from liver tissue for analysis by high-performance liquid chromatography 619(1993)127
- Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285
- Ion-pair extraction and liquid chromatographic analysis of morphine in rat brain and plasma 621(1993)165
- Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123
- Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265
- Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253
- Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3
- Hyphenated high-performance liquid chromatography–capillary gas chromatography (Review) 626(1992)25
- Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33
- On-line coupled reversed-phase high-performance liquid chromatography–gas chromatography–mass spectrometry. A powerful tool for the identification of unknown impurities in pharmaceutical products 626(1992)87
- Supercritical fluid extraction of polychlorinated biphenyls and pesticides from soil. Comparison with other extraction methods 626(1992)135
- Determination of propionate in bread using capillary zone electrophoresis 627(1992)273
- Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300
- Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229
- Liquid–gel partitioning using Lipidex in the determination of polychlorinated biphenyls in cod liver oil 630(1993)179
- High-performance liquid chromatography with ion pairing and electrochemical detection for the determination of the stability of two forms of vitamin C 632(1993)91
- Supercritical fluid extraction of synthetic organochlorine compounds in submerged aquatic plants 632(1993)119
- Analysis of carotenoids by high-performance liquid chromatography and supercritical fluid chromatography (Review) 633(1993)9
- Automatic determination of N-methylcarbamate pesticides by using a liquid–liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169
- Determination of toxaphene in soil by electron-capture negative ion mass spectrometry after fractionation by high-performance gel permeation chromatography 633(1993)177
- Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47
- Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297
- Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75
- Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227
- Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography–mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71
- Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography–diode-array detection 641(1993)89
- Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47
- Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175

- Re-evaluation of solid-phase adsorption and desorption techniques for isolation of trace organic pollutants from chlorinated water 642(1993)185
- Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195
- Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211
- Liquid-gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243
- Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253
- Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263
- Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435
- Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25
- Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305
- Efficient screening method for determining base/neutral and acidic semi-volatile organic priority pollutants in sediments 643(1993)341
- Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363
- Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409
- Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435
- Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25
- On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367
- Determination of furan-based amines in reaction mixtures by gas chromatography 644(1993)383
- High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83
- Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125
- Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99
- Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377
- Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271
- Simultaneous extraction and determination of sulfadiazine and trimethoprim in medicated fish feed by high-performance liquid chromatography 648(1993)183

F

Factor analysis

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Factorial designs

Taguchi design experiments for optimizing the gas chromatographic analysis of residual solvents in bulk pharmaceuticals 623(1992)305

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Fast atom bombardment

Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13

Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic-fast atom bombardment mass spectrometric systems 647(1993)21

Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 647(1993)91

Fecal bacteria

Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia 643(1993)189

Fermentation broth

Carbohydrate analysis of fermentation broth by high-performance liquid chromatography utilizing solid-phase extraction 632(1993)87

Fermentation processes

Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179

Fermentation products

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Feverfew

Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255

Fibrous supports

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Field alternation gel electrophoresis

Field alternation gel electrophoresis — status quo (Review) 618(1993)223

Field-flow fractionation

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Rapid breakthrough measurement of void volume for field-flow fractionation channels 627(1992)23

Isoelectric focusing field-flow fractionation and capillary isoelectric focusing with electroosmotic zone displacement. Two approaches to protein analysis in flowing streams 632(1993)229

Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459

Use of thermal field flow fractionation for the fractionation of polybutadiene in various organic solvents 644(1993)83

Field screening methods

Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435

Field studies

Field detection of organochlorine pesticides by thermal desorption gas chromatography-mass spectrometry 625(1992)277

Filament emission current

Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203

Fimbriated polymers

Fimbriated stationary phases for proteins 631(1993)107

Fingerprinting

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

Fish

Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection 625(1992)257

Fish feed

Simultaneous extraction and determination of sulfadiazine and trimethoprim in medicated fish feed by high-performance liquid chromatography 648(1993)183

Fish oil

Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221

Flame dimensions

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Flame ionization detector

Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295

Thin-layer chromatography-flame ionization detection Iatrosan system (Review) 624(1992)21

Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337

Sensitive flame ionization detector for the determination of traces of atmospheric hydrocarbons by capillary column gas chromatography 642(1993)383

Flame photometric detector

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Optimization of a flame photometric detector for supercritical fluid chromatography of organotin compounds 636(1993)277

Quenching in the flame photometric detector 641(1993)291

Flash chromatography

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Preparative separation and properties of (*E*)- and (*Z*)-steroidal α,β -unsaturated ketoximes 635(1993)342

Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141

Rapid synthesis of isoprenoid diphosphates and their isolation in one step using either thin layer or flash chromatography 645(1993)161

Flash pyrolysis

Identification of C₂-C₄ alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Flavoprotein stationary phase

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Flavours

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Florisil

Some observations on clean-up procedures using sulphuric acid and Florisil 607(1992)303

Flow cell, micro

Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135

Flow cell design

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Flow injection

Faster quantitative evaluation of high-performance liquid chromatography-ultraviolet diode-array data by multicomponent analysis 631(1993)15

Flow-injection analysis

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis-thermospray tandem mass spectrometry 647(1993)329

Flow profiles

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Observation of flow profiles in electroosmosis in a rectangular capillary 632(1993)201

Flow-rate

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Characterization of high-molecular-mass polyethylenes by gel permeation chromatography-low-angle laser-light scattering 648(1993)33

Flow-rate, sampling

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Fluid inclusions

Quantitative analysis of fluid inclusions in evaporites by ion chromatography 640(1993)279

Fluidized-bed behaviour

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIV. Physical characterisation of fluidized-bed behaviour of chromatographic packing materials 631(1993)115

Fluorescence decay

Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245

Fluorescence detector

Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Detection at the zeptomol level of tetramethylrhodamine thiocarbonyl amino acid derivatives 608(1992)117

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Fluorescence detector, full-spectrum

Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319

Fluorescence reactions

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Fluorescent indicators

Formation of zinc complexes during chromatography of porphyrins on fluorescent thin-layer plates 603(1992)231

Fluorescent labelling

Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis 608(1992)239

Fluorimetric assays

Rapid fluorimetric assay for the detection of the peptidyl α -amidating enzyme intermediate using high-performance liquid chromatography 607(1992)25

Fluorophores

Sensitive and stable Cookson-type reagent for derivatization of conjugated dienes for high-performance liquid chromatography with fluorescence detection 606(1992)133

Food analysis

see also Special issue index

Food analysis

Sample preparation for chromatographic analysis of food (Review) 624(1992)3

Advances in planar chromatography for the separation of food lipids (Review) 624(1992)11

Thin-layer chromatography-flame ionization detection Iatrosan system (Review) 624(1992)21

Gas chromatography of fatty acids (Review) 624(1992)37

Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81

Chromatographic determination of vitamins in foods (Review) 624(1992)103

Chromatographic analysis of antibiotic materials in food (Review) 624(1992)153

Chromatographic methods of analysis for penicillins in food-animal tissues and their significance in regulatory programs for residue reduction and avoidance (Review) 624(1992)171

Chromatographic methods for tetracycline analysis in foods (Review) 624(1992)195

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317

Determination of aflatoxins in food products by chromatography (Review) 624(1992)341

Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353

Chromatographic separation of cholesterol in foods (Review) 624(1992)369

Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

High-performance liquid chromatographic methods for the determination of sulfonamides in tissue, milk and eggs (Review) 624(1992)411

Methods for the determination of sulphonamides in meat (Review) 624(1992)425

Phycotoxins in seafood —toxicological and chromatographic aspects (Review) 624(1992)439

Application of ion chromatography to the determination of inorganic anions in foodstuffs (Review) 624(1992)457

Determination of tranquilisers and carazolol residues in animal tissue using high-performance liquid chromatography with electrochemical detection 624(1992)471

Determination of indolic compounds in pig back fat by solid-phase extraction and gradient high-performance liquid chromatography with special emphasis on the boar taint compound skatole 624(1992)479

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

Methods for the analysis of the saffron metabolites crocin, crocetins, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Preconcentration of volatile components of foods: optimization of the steam distillation-solvent extraction at normal pressure 628(1993)261

Detection of alkaloids in foods with a multi-detector high-performance liquid chromatographic system 632(1993)69

Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Fossil organic matter

Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377

Fraction collection

Membrane fraction collection for capillary electrophoresis 608(1992)109

Fraction collection after an optimized micellar electrokinetic capillary chromatographic separation of nucleic acid constituents 638(1993)363

Fragmental constants

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

Fragrances

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Free-flow isotachopheresis

Study of isotachopheretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215

Free-flow zone electrophoresis

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Free radicals

High-performance liquid chromatographic determination of methanesulphonic acid as a method for the determination of hydroxyl radicals 630(1993)187

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Free solution capillary electrophoresis

Characterization of each isoform of a $F(ab')_2$ by capillary electrophoresis 641(1993)383

Frontal affinity chromatography

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Frontal analysis

Study of protein-drug binding using capillary zone electrophoresis 608(1992)257

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

The shock layer thickness, a new approach to the study of column performance in non-linear chromatography I. Optimum linear velocity in frontal analysis 636(1993)189

Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19

Frontal chromatography

Comparison between the hodograph transform method and frontal chromatography for the measurement of binary competitive adsorption isotherms 603(1992)13

Fruit juices

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Fruits

Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197

Fucus vesiculosus

Ion chromatographic investigation of brown algae (*Fucus vesiculosus*) of the German Environmental Specimen Bank 643(1993)427

Fuels

Recovery of diesel fuel from clays by supercritical fluid extraction-gas chromatography 606(1992)221

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 641(1993)347

Rapid group-type analysis of crude oils using high-performance liquid chromatography and gas chromatography 644(1993)253

Full-spectrum detectors

Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319

Fusarium species

Identification of mycotoxins in keratomycosis-derived *Fusarium* isolates by gas chromatography-mass spectrometry 620(1993)243

Supercritical fluid chromatography of *Fusarium* mycotoxins 627(1992)247

Fused silica

Construction of a robust stainless-steel clad fused-silica restrictor for use in supercritical fluid extraction 648(1993)445

Fused silica fibres

Solventless determination of caffeine in beverages using solid-phase microextraction with fused-silica fibers 603(1992)185

Fv antibody fragments

Stability of immunoabsorbents comprising antibody fragments. Comparison of Fv fragments and single-chain Fv fragments 629(1993)161

G

Gamma-irradiation

Investigation of γ -irradiation of α -tocopherol and its related derivatives by high-performance liquid chromatography using a rapid scanning spectrophotometer 605(1992)49

Gas chromatography-infrared spectroscopy

Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433

Gas chromatography-mass spectrometry

Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283

Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433

Gases

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Gasoline

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153

Gas phase calorimetry

Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65

Gas purifier

Ambient temperature gas purifier suitable for the trace analysis of carbon monoxide and hydrogen and the preparation of low-level carbon monoxide calibration standards in the field 630(1993)257

Gas-solid chromatography

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Gel chromatography

History of a theory 633(1993)1

Gelled beads

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Geological materials

High-performance ion chromatographic separation of uranium and thorium in natural waters and geological materials 602(1992)119

Geometrical isomers

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag^+ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Separation of retinoic acid all-*trans*, mono-*cis* and poly-*cis* isomers by reversed-phase high-performance liquid chromatography 637(1993)201

Germination

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Ghost peaks

Determination of volatile fatty acids in landfill leachates by high-performance liquid chromatography 629(1993)394

Gingival crevicular fluid

Determination of nifedipine in gingival crevicular fluid: a capillary gas chromatographic method for nifedipine in microlitre volumes of biological fluid 621(1993)95

Ginseng

Determination of acidic saponins in crude drugs by high-performance liquid chromatography on octadecylsilyl porous glass 630(1993)408

Glass fibre prefilter

Glass fibre prefilter-XAD-2 sampling and gas chromatographic determination of airborne chlorophenols 636(1993)255

Glassy carbon

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Glomerular barrier function

Analytical gel filtration of dextran for study of the glomerular barrier function 641(1993)63

Glycopeptide mapping

Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45

Glycosylation

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Golay's Paradox

Golay's paradox: linear *versus* non-linear chromatography 634(1993)334

Good laboratory practice

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Gradient multiple-development

Computer-aided optimization of gradient multiple-development thin-layer chromatography. I. Two-stage development 623(1992)139

Gradient elution

Approaches to gradient elution in ion-exclusion chromatography of carboxylic acids 602(1992)43

Analytic solution for volume-overloaded gradient elution chromatography 605(1992)151

Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Effect of column length and elution mechanism on the separation of proteins by reversed-phase high-performance liquid chromatography 625(1992)217

Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35

Implementation and use of gradient predictions for optimization of reversed-phase liquid chromatography of peptides. Practical considerations 639(1993)97

Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Gradient elution, ternary systems

High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83

Gradient elution profiles

Identification and determination of the flavonoids from *Ginkgo biloba* by high-performance liquid chromatography 605(1992)41

Gradient multiple development

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Analysis of plant extracts by multiple development thin-layer chromatography 646(1993)434

Grapefruit juice

Column liquid chromatographic determination of flavanone glycosides in *Citrus* Application to grapefruit and sour orange juice adulterations 634(1993)129

Graphitized carbon black

Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163

Graphpac

Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189

Grass cell walls

Determination of alkali-soluble phenolic monomers in grasses after separation by thin-layer chromatography 604(1992)290

GRIP

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

Group separation

Ion-exchange preconcentration and group separation of ionic and neutral organic compounds 640(1993)145

Group-type analysis

Rapid group-type analysis of crude oils using high-performance liquid chromatography and gas chromatography 644(1993)253

H

Haemoglobin affinity adsorbents

Immobilized hemoglobin in the purification of hemoglobin-based oxygen carriers 604(1992)117

Hair analysis

Electrochemical detection of cobalt in hair following on-column derivatization with 1-(2-pyridylazo)-2-naphthol-6-sulphonic acid and reversed-phase liquid chromatography 619(1993)103

Capillary electrophoresis for the investigation of illicit drugs in hair: determination of cocaine and morphine 638(1993)303

Hazardous waste

Field detection of organochlorine pesticides by thermal desorption gas chromatography-mass spectrometry 625(1992)277

Ion chromatographic investigations of leachates from a hazardous-waste landfill 640(1993)227

Headspace analysis

Automated headspace gas chromatographic analysis of faecal short-chain fatty acids 621(1993)7

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography-mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

False results in headspace-gas chromatographic analysis of trihalomethanes in swimming pool water due to elevated headspace temperatures 648(1993)294

Heart cutting

Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153

Heat transfer, unsteady

Unsteady heat transfer in capillary zone electrophoresis. I. A mathematical model 606(1992)95

Unsteady heat transfer in capillary zone electrophoresis. II. Computer simulations 606(1992)103

Heterogeneous solids

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Heterogeneous wheat proteins

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

Heuristic evolving latent projections

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Hierarchical clustering

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

High-temperature open-tubular liquid chromatography

Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135

High-throughput liquid-absorption preconcentrator

Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography–electrochemical detection 643(1993)107

Himantormia lugubris

High-performance liquid chromatographic determination of acridine orange in nucleic acids isolated from dye-treated *Himantormia lugubris* thalli 607(1992)245

History

History of a theory 633(1993)1

Hodograph transform

Comparison between the hodograph transform method and frontal chromatography for the measurement of binary competitive adsorption isotherms 603(1992)13

Hollow-fibre membrane module

Continuous buffer exchange of column chromatographic eluates using a hollow-fibre membrane module 639(1993)33

Honey

High-performance liquid chromatography of honey flavonoids 634(1993)41

Multichannel coulometric detection coupled with liquid chromatography for determination of phenolic esters in honey 635(1993)137

Human immunodeficiency virus

Increased yield of homogeneous HIV-1 reverse transcriptase (p66/p51) using a slow purification approach 639(1993)67

Analysis of multiple sugar probes in urine and plasma by high-performance anion-exchange chromatography with pulsed electrochemical detection. Application in the assessment of intestinal permeability in human immunodeficiency virus infection 640(1993)293

Hummel–Dreyer method

Analytical and micropreparative high-performance gel chromatography of proteins with a short column.

Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Study of protein–drug binding using capillary zone electrophoresis 608(1992)257

Hummel–Dreyer method in high-performance liquid chromatography for the determination of drug–protein binding parameters 648(1993)325

Hydride conversion

Alkyltin speciation in sea water with on-line hydride conversion and gas chromatography–atomic emission detection 644(1993)153

Hydrodistillation

Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297

Hydrodynamic backpressure programming

Automated isotachophoretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155

Hydrodynamic chromatography

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Hydrogen bonding

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas–liquid chromatographic data 644(1993)95

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas–liquid chromatography stationary phase 646(1993)351

Hydrophilic groups

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Hydrophilic interaction chromatography

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Determination of carbohydrates by hydrophilic interaction chromatography with pulsed amperometric detection using postcolumn pH adjustment 625(1992)151

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Hydrophobic interactions

Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419

Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199

Hydrophobicity

see also Lipophilicity

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11

Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269

Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17

Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31

Hydrophobicity index

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49

Effects of molecular structure on the $\log k'_w$ index and linear S - $\log k'_w$ correlation in reversed-phase high-performance liquid chromatography 633(1993)31

Hydrophobic ligands

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129

Hydroxyapatite

High-performance hydroxyapatite chromatography of integral membrane proteins and water-soluble proteins in complex with sodium dodecyl sulphate 604(1992)95

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275

Hydroxyethylmethacrylate-based sorbents

Anion chromatography on hydroxyethyl methacrylate-based sorbents 640(1993)49

I**Iatroscan system**

Thin-layer chromatography-flame ionization detection Iatroscan system (Review) 624(1992)21

Ice cores

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

ILSAP

Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195

Immobilization

Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185

New aliphatic boronate ligands for affinity chromatography 625(1992)91

Immobilized polyethyleneglycol-based stationary phase for the analysis of amines and organic acids by capillary gas chromatography 637(1993)96

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Salt-induced immobilization of proteins on a high-performance liquid chromatographic epoxide affinity support 644(1993)11

Immobilized amino acids

Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography 605(1992)199

Immobilized antibodies

Stereoselective determination of the active metabolites of a new anti-inflammatory agent (CS-670) in human and rat plasma using antibody-mediated extraction and high-performance liquid chromatography 613(1993)67

Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37

Immobilized artificial membranes

Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289

Immobilized DNA

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Immobilized human serum albumin

Characterization of the binding and chiral separation of D- and L-tryptophan on a high-performance immobilized human serum albumin column 645(1993)241

Immobilized ligands

Protein purification using combined streptavidin (or avidin)-Sepharose and thiopropyl-Sepharose affinity chromatography 603(1992)95

High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

Immobilized metal affinity chromatography for the separation of photosystems I and II from the thermophilic cyanobacterium *Synechococcus elongatus* 625(1992)21

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107

High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411

Immobilized liquid phases

Supports for liquid-liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73

Immobilized metal affinity chromatography

Reactive carriers for the immobilization of copper ions 604(1992)5

Evaluation of the interaction of protein α -amino groups with M(II) by immobilized metal ion affinity chromatography 604(1992)13

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133

Purification and determination of the binding site of lactate dehydrogenase from chicken breast muscle on immobilized ferric ions 627(1992)163

Immobilized metal ion affinity partitioning

Immobilized metal ion affinity partitioning of erythrocytes from different species in dextran-poly(ethylene glycol) aqueous phase systems 641(1993)279

Immobilized metal ions

Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125

Immobilized pH gradients

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

Immobilized pyranose oxidase reactor

Simultaneous determination of glucose and 1-deoxyglucose in serum by anion-exchange chromatography with an immobilized pyranose oxidase reactor 620(1993)9

Immunoaffinity adsorbents

Multiple ligand applications in high-performance immunoaffinity chromatography 603(1992)273

Stability of immunoabsorbents comprising antibody fragments. Comparison of Fv fragments and single-chain Fv fragments 629(1993)161

Isolation of chitin deacetylase from *Mucor rouxii* by immunoaffinity chromatography 644(1993)35

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Immunoaffinity chromatography

Comparison of immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Immunoaffinity column clean-up

Automated liquid chromatographic determination of ochratoxin A in cereals and animal products using immunoaffinity column clean-up 603(1992)285

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485

Immunoaffinity ligands

Immunoaffinity chromatography of recombinant *Amb a I* in the presence of a denaturing agent 631(1993)269

Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37

Immunochemical detection

On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65

Impedance method

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Impregnated glass filters

Determination of formaldehyde in air by chemisorption on glass filters impregnated with 2,4-dinitrophenylhydrazine using gas chromatography with thermionic specific detection 626(1992)284

Impregnated papers

Effect of solvent composition and pH on R_f values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121

Impregnated silica gel

Thin-layer chromatographic behaviour of substituted phenolic compounds on silica gel layers impregnated with Al(III) and Cu(II) 607(1992)163

Imprinted polymers

Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31

Impurity profiles

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Inclusion complexes

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Indirect detection

Liquid chromatography and postcolumn indirect detection of glyphosate 602(1992)197

Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119

Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

Theoretical and experimental aspects of indirect detection in capillary electrophoresis 608(1992)97

Determination of quaternary ammonium compounds by capillary electrophoresis using direct and indirect UV detection 608(1992)325

Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341

Determination of alkylphosphonic acids by capillary zone electrophoresis using indirect UV detection 630(1993)371

Separation of acetylated amino acids 640(1993)379

Inductively coupled plasma atomic emission spectroscopy

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Inductively coupled plasma mass spectrometry

Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459

Development of a high-temperature gas chromatography-inductively coupled plasma mass spectrometry interface for the determination of metalloporphyrins 646(1993)369

Infrared spectroscopy

Direct measurement of the inverse secondary isotope effects of Rh(I)-C₂H₄ and Rh(I)-C₂H₃D utilizing gas chromatography 607(1992)69

Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53

Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153

Infrared spectroscopy, Fourier-transform

Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Infusio Darrowi

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

Injection methods

Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287

Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295

Liquid jet evolution from a gas chromatographic injector 609(1992)269

Simple direct injection high-performance liquid chromatographic method to determine quinidine in plasma 620(1993)278

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Solvent elimination rate in temperature-programmed injections of large sample volumes in capillary gas chromatography 623(1992)105

Improved determination of brofaromine by capillary gas chromatography and by utilization of a multi-purpose injector 623(1992)191

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310

Injection of large volumes of aqueous solutions in capillary supercritical fluid chromatography and sample pre-concentration by multiple injections 630(1993)307

Explanation of the matrix-induced chromatographic response enhancement of organophosphorus pesticides during open tubular column gas chromatography with splitless or hot on-column injection and flame photometric detection 638(1993)57

Optimization of injection technique in capillary ion electrophoresis for the determination of trace level anions in environmental samples 640(1993)481

Capillary electrophoresis with on-line sample pretreatment for the analysis of biological samples with direct injection 641(1993)375

Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221

Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407

Injectors

Primary contribution of the injector to carryover of a trace analyte in high-performance liquid chromatography 631(1993)161

Indirect introduction of liquid samples in gas correlation chromatography 639(1993)207

Inorganic matrices

Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195

Insect extracts

Boronic esters as derivatives for supercritical fluid chromatography of ecdysteroids 639(1993)281

Instrumentation

Precise quantitative capillary electrophoresis. Methodological and instrumental aspects 636(1993)31

Equipment for multifunctional use in high-performance capillary electrophoresis 638(1993)147

Interaction free enthalpies

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Interaction parameters

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Intercalative effects

Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11

Inter-detector lag

Estimation of inter-detector lag in multi-detection gel permeation chromatography 635(1993)132

Intereluent selectivity coefficient

Retention model of multiple eluent ion chromatography. *A priori* estimations of analyte capacity factor and peak intensity 627(1992)17

Interface design

Development of directly coupled supercritical fluid chromatography with packed capillary column-mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonylureas 606(1992)237

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341

Interfaces

Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113

Interfaces, CE-MS

Capillary electrophoresis-mass spectrometry (Review) 636(1993)3

Interfaces, high-temperature GC-ITP-MS

Development of a high-temperature gas chromatography-inductively coupled plasma mass spectrometry interface for the determination of metalloporphyrins 646(1993)369

Interfaces, LC-FT-IR

Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Interfaces, LC-GC

On-line coupled reversed-phase high-performance liquid chromatography-gas chromatography-mass spectrometry. A powerful tool for the identification of unknown impurities in pharmaceutical products 626(1992)87

Modified on-column interface for coupled high-performance liquid chromatography-gas chromatography and its application to the determination of levamisole in milk 626(1992)223

Interfaces, LC-MS

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic-thermospray mass spectrometric applications 626(1992)81

Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173

Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9

Organic acid analysis by ion chromatography-particle beam mass spectrometry 647(1993)95

Development of a high-performance liquid chromatographic-mass spectrometric technique, with an ionspray interface, for the determination of platelet-activating factor (PAF) and lyso-PAF in biological samples 647(1993)261

Interfacial adsorption

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Interlaboratory validation

Liquid chromatographic determination of amoxicillin preparations. Interlaboratory validation 629(1993)277

Internal standard-redox mode

Vitamin D determination using high-performance liquid chromatography with internal standard-redox mode electrochemical detection and its application to medical nutritional products 605(1992)215

Internal standards

Measurement of vitamin C by capillary electrophoresis in biological fluids and fruit beverages using a stereoisomer as an internal standard 633(1993)245

Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61

Internal surface boronic acid

Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175

Intraparticle mass transport

Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Inverse gas chromatography

Measurement of infinite dilution diffusion coefficients of ϵ -caprolactam in nylon 6 at elevated temperatures by inverse gas chromatography 607(1992)145

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships 623(1992)83

Thermodynamic study of polystyrene-*n*-alkane systems by inverse gas chromatography 641(1993)301

Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141

Ion chemistry

Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203

Ion chromatography

see also Special issue index

Ion-exchange chromatography, coupling with ion-exclusion chromatography

Forensic applications of coupling non-suppressed ion-exchange chromatography with ion-exclusion chromatography 602(1992)141

Ion-exchange constants

Retention model for the separation of anionic metal-EDTA complexes in ion chromatography 640(1993)15

Ion exchangers

Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography 605(1992)199

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

Novel weak acid cation-exchange column 640(1993)65

Comparison of silica-based and polymer-based cation exchangers for the ion chromatographic separation of transition metals 640(1993)167

Ion-exclusion chromatography

Evaluation of low-conductance eluents for suppressed ion-exclusion chromatography 602(1992)27

Approaches to gradient elution in ion-exclusion chromatography of carboxylic acids 602(1992)43

Ion-exclusion chromatography, coupling with ion-exchange chromatography

Forensic applications of coupling non-suppressed ion-exchange chromatography with ion-exclusion chromatography 602(1992)141

Ionization methods

Development of directly coupled supercritical fluid chromatography with packed capillary column-mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

New ionization strategies in particle-beam liquid chromatography-mass spectrometry based on the principle of surface ionization 647(1993)63

Investigation into lacidipine and related metabolites by high-performance liquid chromatography-mass spectrometry 647(1993)155

Ionizing radiation

Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315

Ion mobility spectrometry

Quantification of mammalian lignans in biological fluids using gas chromatography with ion mobility detection 617(1993)173

Ionophores

Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283

IonPac CS12

Novel weak acid cation-exchange column 640(1993)65

Ion-pair chromatographic systems

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Ion-pairing reagents

Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3

Ion-interaction chromatographic studies on metal ions complexed with Plasmocorin B dye 640(1993)179

Volatile ion-pairing agents for liquid chromatographic-thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Ion-pair surfactants

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

Ion-selective microelectrode

On-column detection in capillary zone electrophoresis with ion-selective microelectrodes in conical capillary apertures 633(1993)207

Ionspray interface

Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonylureas 606(1992)237

Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Development of a high-performance liquid chromatographic-mass spectrometric technique, with an ionspray interface, for the determination of platelet-activating factor (PAF) and lyso-PAF in biological samples 647(1993)261

Capillary zone electrophoresis-ionspray mass spectrometry of a synthetic drug-protein conjugate mixture 647(1993)361

Ionspray ionization

Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Ionspray mass spectrometry

Identification of degradation products of some chemical warfare agents by capillary electrophoresis-ionspray mass spectrometry 634(1993)113

Ion-trap mass detector

Manipulation of ion trap parameters to maximize compound-specific information in gas chromatographic-mass spectrometric analyses 606(1992)203

Analysis of polycyclic aromatic hydrocarbons with an ion-trap mass detector and comparison with other gas chromatographic and high-performance liquid chromatographic techniques 642(1993)351

Iron, immobilized

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

γ -Irradiation

Investigation of γ -irradiation of α -tocopherol and its related derivatives by high-performance liquid chromatography using a rapid scanning spectrophotometer 605(1992)49

Isocratic elution

Step elution in preparative liquid chromatography 605(1992)175

Isoelectric focusing

Chromogenic substrate for *endo*-polygalacturonase detection in gels 603(1992)243

Recycling isoelectric focusing: use of simple buffers 604(1992)73

Improvements in the method developed for performing isoelectric focusing in uncoated capillaries 606(1992)291

Application of capillary isoelectric focusing with universal concentration gradient detector to the analysis of protein samples 608(1992)121

Rapid isoelectric focusing of proteins in hydrolytically stable capillaries 623(1992)357

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

Polymer- and surfactant-coated capillaries for isoelectric focusing 632(1993)185

Isoelectric focusing field-flow fractionation and capillary isoelectric focusing with electroosmotic zone displacement. Two approaches to protein analysis in flowing streams 632(1993)229

Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Electrically controlled electrofocusing of ampholytes between two zones of modified electrolyte with two different values of pH 638(1993)179

Experimental aspects of capillary isoelectric focusing with electroosmotic zone displacement 638(1993)187

Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261

Isoelectric focusing field-flow fractionation

Isoelectric focusing field-flow fractionation and capillary isoelectric focusing with electroosmotic zone displacement. Two approaches to protein analysis in flowing streams 632(1993)229

Isoelectric point

Purification, characterization and crystallization of recombinant HIV-1 reverse transcriptase 604(1992)157

Isoenzyme patterns

Rapid method for the determination of glutathione transferase isoenzymes in crude extracts 609(1992)141

Isomeric purity

High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues 645(1993)107

Isosteric heat of adsorption

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Isotachopheresis

see also Special issue index

Isotachopheresis

On-column transient and coupled column isotachopheretic preconcentration of protein samples in capillary zone electrophoresis 608(1992)3

Analogy between micelles and polymers of ionic surfactants. A capillary isotachopheretic study of small ionic aggregates in water-organic solutions 608(1992)131

Isotachopheresis of nucleic acid constituents (Review) 618(1993)57

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Capillary isotachopheretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Simulated quantitative and qualitative isotachopheretic indices of 73 amino acids and peptides in the pH range 6.4-10 628(1993)283

Bidirectional isotachopheresis. I. Verification of bidirectional isotachopheresis and simultaneous determination of anionic and cationic components 633(1993)251

Study of isotachopheretic separation behaviour of metal cations by means of particle-induced X-ray emission. IV. Separation of metal ions in a non-radioactive model solution of a high-level liquid waste 633(1993)261

Analysis of a dilute sample by capillary zone electrophoresis with isotachopheretic preconcentration 634(1993)101

Determination of stabilizers in human serum albumin preparations 638(1993)108

Options in electrolyte systems in combined capillary isotachopheresis and capillary zone electrophoresis 638(1993)119

Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137

Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155

Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195

Efficient computerized data acquisition and evaluation for capillary isotachopheresis in quiescent and flowing solution with single detectors placed towards the capillary end 638(1993)205

Study of isotachopheretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215

Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225

Isotachopheretic analysis of some antidepressants 638(1993)231

Determination of ascorbic acid by isotachopheresis with regard to its potential in neuroblastoma therapy 638(1993)235

Capillary isotachopheresis of organic acids produced by selected microorganisms during lactic acid fermentation 638(1993)241

Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335

Analytical capillary isotachopheresis of bis(2-ethylhexyl) hydrogenphosphate and 2-ethylhexyl dihydrogenphosphate 639(1993)317

Automated isotachopheretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155

Isotachopheresis superimposed on capillary zone electrophoresis 641(1993)363

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Isotachophoretic separation of polyols in boric acid solutions 644(1993)407

Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233

Isotope dilution

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography-high-resolution mass spectrometry 630(1993)297

Isotope distribution

Lithium isotope effects in water-dimethyl sulphoxide mixed-solvent ion-exchange chromatography 627(1992)187

Isotope effects

Direct measurement of the inverse secondary isotope effects of Rh(I)-C₂H₄ and Rh(I)-C₂H₃D utilizing gas chromatography 607(1992)69

Isotope effects in liquid chromatography of imipramine and desmethylimipramine 636(1993)243

Isotope-selective detector

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

J

Joule heating

Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323

Voltage programming in capillary zone electrophoresis 632(1993)149

Jovanovic local isotherms

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Juice beverages

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

K

Kamlet-Taft parameters

Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37

Kerogens

Identification of C₂-C₄ alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Kinetic models

Comparison of the various kinetic models of non-linear chromatography 603(1992)1

Kinetic studies

Application of high-performance liquid chromatography in the kinetic study of α -methyl dopa 623(1992)75

Kinetic analysis of biotinylation of specific residues of peptides by high-performance liquid chromatography 631(1993)281

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91

Kraft pulping process

Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219

L

Laffort solubility factors

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships 623(1992)83

Laminar flow

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Landfills, hazardous waste

Ion chromatographic investigations of leachates from a hazardous-waste landfill 640(1993)227

Langmuir equation

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Langmuir isotherms

see Adsorption isotherms

Large volume sample injector

Solvent elimination rate in temperature-programmed injections of large sample volumes in capillary gas chromatography 623(1992)105

Laser-desorption ionization mass spectrometry

Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3

Laser-induced fluorescence detector

Laser fluorescence detector for capillary electrophoresis 608(1992)73

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357

Determination of fatty acids in fish oil dietary supplements by capillary liquid chromatography with laser-induced fluorescence detection 627(1992)87

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315

Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245

Lathyrus sativus

Determination of the neurotoxin β -N-oxalyl-L- α , β -diaminopropionic acid using high-performance liquid chromatography with fluorometric detection 635(1993)338

Leachates

Ion chromatographic investigations of leachates from a hazardous-waste landfill 640(1993)227

Lectin affinity adsorbents

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Length-to-breadth ratio

Influence of shape parameters on the separation of tetrachlorodibenzo-*p*-dioxin isomers on reversed-phase columns 628(1993)3

Leukaemic cells

Activation of topoisomerase II during partial purification by heparin-Sepharose chromatography 625(1992)67

Ligand binding constant

Analytical and micropreparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Ligand concentration

Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97

Ligand exchange

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

Ligand leakage

Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129

Light scattering, dynamic

Dynamic light-scattering studies of hydroxyethyl cellulose solutions used as sieving media for electrophoretic separations 608(1992)79

Light scattering detector

Fatty acid composition of human milk triglyceride species. Possible consequences for optimal structures of infant formula triglycerides 616(1993)9

Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Mean square radius of molecules and secondary instrumental broadening 648(1993)27

Light scattering detector, evaporative

High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83

Linear chromatography

Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119

Linear discriminant analysis

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

Linear solvation energy relationship

Retention of C₆₀ and C₇₀ fullerenes on reversed-phase high-performance liquid chromatographic stationary phases 625(1992)131

Quantitative structure-retention relationship approach to prediction of linear solvation energy relationship coefficients. I. H-Bond acceptor capability of gas chromatography stationary phases in McReynolds data set 628(1993)247

Linear velocity

Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79

Influence of linear velocity and multigradient programming in supercritical fluid chromatography 629(1993)345

The shock layer thickness, a new approach to the study of column performance in non-linear chromatography I. Optimum linear velocity in frontal analysis 636(1993)189

Lipid peroxidation

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Lipodex E

Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288

Lipophilicity

see also Hydrophobicity

Thin-layer chromatographic study of the lipophilicity of triazine herbicides. Influence of different organic modifiers 625(1992)392

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Examination of some reversed-phase high-performance liquid chromatography systems for the determination of lipophilicity 630(1993)105

New chromatographic hydrophobicity index (φ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49

On the precise estimation of R_M values in reversed-phase thin-layer chromatography including aspects of pH dependence 639(1993)287

Liposomes, lyophilized

Gas chromatographic determination of residual levels of *tert*-butanol from lyophilized liposomal formulations 620(1993)83

Liquefied petroleum gases

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Liquid chromatography, on-line coupling to GC-MS

On-line coupled reversed-phase high-performance liquid chromatography-gas chromatography-mass spectrometry. A powerful tool for the identification of unknown impurities in pharmaceutical products 626(1992)87

Liquid chromatography-gas chromatography

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Liquid chromatography-mass spectrometry

see also Special issue index

Liquid chromatography-mass spectrometry

High-performance liquid chromatography-thermospray mass spectrometry of gibberellins 603(1992)157

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic-thermospray mass spectrometric applications 626(1992)81

Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173

Liquid chromatography-electrospray ionization-mass spectrometry of cyanobacterial toxins 628(1993)215

Determination of paraquat and diquat by liquid chromatography-thermospray mass spectrometry 628(1993)235

- Identification by particle-beam liquid chromatography–mass spectrometry of transformation products of the antioxidant Irganox 1330 in food-contact polymers subjected to electron-beam irradiation 629(1993)283
- Characterization of flavonoids by liquid chromatography–tandem mass spectrometry 629(1993)389
- Structural characterization of glycoprotein digests by microcolumn liquid chromatography–ionspray tandem mass spectrometry 632(1993)45
- High-performance liquid chromatographic–mass spectrometric analysis of *cis*-dichlorodiamineplatinum–DNA complexes using an ionspray interface 633(1993)119
- Liquid chromatography–mass spectrometry of fatty acids including hydroxy and hydroperoxy acids as their 3-methyl-7-methoxy-1,4-benzoxazin-2-one derivatives 639(1993)165
- Liquid chromatography–thermospray mass spectrometric assay for trenbolone in bovine bile and faeces 639(1993)185
- Time- and cost-saving approach for liquid chromatography–mass spectrometry vacuum systems 641(1993)396
- Characterization of vitamin D₃ metabolites using continuous-flow fast atom bombardment tandem mass spectrometry and high-performance liquid chromatography 645(1993)115
- Rapid high-sensitivity peptide mapping by liquid chromatography–mass spectrometry 646(1993)169
- Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3
- Evaluation of the performance of capillary liquid chromatography–fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13
- Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic–fast atom bombardment mass spectrometric systems 647(1993)21
- Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography–mass spectrometry 647(1993)31
- Radiofrequency-only daughter scan mode to provide more spectral information in liquid chromatography–thermospray tandem mass spectrometry 647(1993)39
- Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51
- New ionization strategies in particle-beam liquid chromatography–mass spectrometry based on the principle of surface ionization 647(1993)63
- Applications of dual-beam thermospray liquid chromatography–mass spectrometry 647(1993)73
- Particle beam liquid chromatography–mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79
- Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography–continuous-flow fast atom bombardment mass spectrometry 647(1993)91
- Organic acid analysis by ion chromatography–particle beam mass spectrometry 647(1993)95
- Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101
- Liquid chromatography–mass spectrometry for the identification of minor components in benzothiazole derivatives 647(1993)107
- Volatile ion-pairing agents for liquid chromatographic–thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131
- Determination of saponins in crude plant extracts by liquid chromatography–thermospray mass spectrometry 647(1993)137
- Use of liquid chromatography–thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147
- Investigation into lacidipine and related metabolites by high-performance liquid chromatography–mass spectrometry 647(1993)155
- Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography–electrospray mass spectrometry 647(1993)167
- Liquid chromatographic–thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183
- Liquid chromatographic–UV detection and liquid chromatographic–thermospray mass spectrometric analysis of *Chironia* (Gentianaceae) species. A rapid method for the screening of polyphenols in crude plant extracts 647(1993)191
- Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203

Evaluation of liquid chromatography–thermospray mass spectrometry in the determination of some phenylglycidyl ether–2'-deoxynucleoside adducts 647(1993)211

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis–mass spectrometry and tandem mass spectrometry 647(1993)219

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Development of a high-performance liquid chromatographic–mass spectrometric technique, with an ionspray interface, for the determination of platelet-activating factor (PAF) and lyso-PAF in biological samples 647(1993)261

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279

Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography–mass spectrometry with an atmospheric pressure interface 647(1993)289

Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a “bio-engineered” variant by high-performance liquid chromatography–frit fast atom bombardment mass spectrometry 647(1993)301

Application of liquid chromatography–thermospray mass spectrometry to the analysis of polyester oligomers 647(1993)311

Recent progress in high-performance anion-exchange chromatography–thermospray mass spectrometry of oligosaccharides 647(1993)319

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis–thermospray tandem mass spectrometry 647(1993)329

Pseudo-electrochromatography–negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375

Liquid crystals

Assessment of the polarity of three liquid crystals used as gas chromatographic stationary phases 605(1992)276

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Separation and identification of all isomeric *n*-nonadecenes by capillary gas chromatography on a mesogenic stationary phase with Fourier transform infrared and mass spectrometric detection 609(1992)283

Gas chromatographic separation of polycyclic aromatic hydrocarbons on a mesomorphic copolysiloxane stationary phase 609(1992)414

Possible value for the gas chromatographic analysis of essential oils of some unusual phase commercial capillaries 626(1992)294

Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189

Liquid jet evolution

Liquid jet evolution from a gas chromatographic injector 609(1992)269

Liquid–gel partitioning

Liquid–gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243

Evaluation of the liquid–liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid–liquid extraction prior to high-performance liquid chromatography 629(1993)181

Liquid–liquid extractor

Automatic determination of *N*-methylcarbamate pesticides by using a liquid–liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169

Liquid–liquid partitioning

Supports for liquid–liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73

Liquid phases, GC

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Lithium isotope effects

Lithium isotope effects in water–dimethyl sulphoxide mixed-solvent ion-exchange chromatography 627(1992)187

Loading capacity

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Lophophora species

Determination of phenylethylamines in hallucinogenic cactus species by high-performance liquid chromatography with photodiode-array detection 623(1992)381

Low-angle laser-light scattering detector

Determination of alkaline phosphatase aggregation by size exclusion high-performance liquid chromatography with low-angle laser light scattering detection 606(1992)264

Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17

Characterization of high-molecular-mass polyethylenes by gel permeation chromatography-low-angle laser-light scattering 648(1993)33

Lower limit of quantitation

Estimation of the lower limit of quantitation, a method detection performance parameter for biomedical assays, from calibration curves 612(1993)71

Luminescence

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Luminescence, time-resolved

Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85

Lupinus

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Lyophilization

Lyophilization can generate artifacts in chromatographic profiles of inositol phosphates 619(1993)121

M

Macrocyclic ligands

Anion chromatography with a crown ether-based stationary phase and an organic modifier in the eluent 640(1993)33

Macroporous supports

Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411

Maize

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Marine evaporites

Quantitative analysis of fluid inclusions in evaporites by ion chromatography 640(1993)279

Marine sediments

Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141

Efficient screening method for determining base/neutral and acidic semi-volatile organic priority pollutants in sediments 643(1993)341

Mark-Houwink coefficients

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Mass-flow-sensitive detector response

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Mass spectrometry

see also Liquid chromatography-mass spectrometry

Comparison of gas chromatographic-mass spectrometric methods for screening of chlorotriazine pesticides in soil 603(1992)175

Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonylureas 606(1992)237

Gas chromatography-mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

Characterization of N-ethoxycarbonyl ethyl esters of amino acids by mass spectrometry 635(1993)271

Capillary electrophoresis-mass spectrometry (Review) 636(1993)3

Analysis of polycyclic aromatic hydrocarbons with an ion-trap mass detector and comparison with other gas chromatographic and high-performance liquid chromatographic techniques 642(1993)351

Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213

New ionization strategies in particle-beam liquid chromatography–mass spectrometry based on the principle of surface ionization 647(1993)63

Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351

Mass spectrometry, laser desorption time of flight

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Mass transfer

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

Mass transfer kinetics

Comparison of the various kinetic models of non-linear chromatography 603(1992)1

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Mass transfer resistance

Fimbriated stationary phases for proteins 631(1993)107

Mathematical modelling

Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113

Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1

Matrix-assisted laser desorption mass spectrometry

Off-line coupling of capillary electrophoresis with matrix-assisted laser desorption mass spectrometry 647(1993)367

Matrix effects

Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241

Explanation of the matrix-induced chromatographic response enhancement of organophosphorus pesticides during open tubular column gas chromatography with splitless or hot on-column injection and flame photometric detection 638(1993)57

Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic–fast atom bombardment mass spectrometric systems 647(1993)21

Matrix elimination

Matrix elimination in ion chromatography by “heart-cut” column-switching techniques 602(1992)155

Matrix solid-phase dispersion

Disruption and fractionation of biological materials by matrix solid-phase dispersion 629(1993)23

Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225

McReynolds constants

Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361

Mechanical strength

Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57

Membrane affinity separations

Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1

Membrane chromatography

High-performance membrane chromatography: highly efficient separation method for proteins in ion-exchange, hydrophobic interaction and reversed-phase modes 646(1993)279

Membrane electrodes

Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283

Membrane-embedded peptides

Separation of membrane-embedded tryptic peptides of Na,K-ATPase by size-exclusion chromatography 646(1993)153

Membranes

Dispersion in stacked-membrane chromatography 603(1992)43

Studies of a novel membrane for affinity separations. I. Functionalisation and protein coupling 606(1992)19

Membrane fraction collection for capillary electrophoresis 608(1992)109

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Membrane chromatography for rapid purification of recombinant antithrombin III and monoclonal antibodies from cell culture supernatant 639(1993)57

Membrane suppressor

Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151

Metal complexes

Ion chromatography of metal cations on carboxylic acid resins 602(1992)111

Modification of reversed-phase liquid chromatographic retention characteristics for metal-tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138

Metallurgical processes

Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371

Methanolysis

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Method development

Method development approaches for capillary ion electrophoresis 640(1993)387

Micellar electrokinetic chromatography

see also Capillary electrophoresis

Separation of sulphonamides and determination of the active ingredients in tablets by micellar electrokinetic capillary chromatography 603(1992)259

Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Microemulsion electrokinetic chromatography: comparison with micellar electrokinetic chromatography 608(1992)23

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Capillary electrophoretic determination of the protease Savinase in cultivation broth 608(1992)205

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Confirmation testing of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in urine with micellar electrokinetic capillary chromatography 608(1992)251

Effect of the buffer solution on the elution order and separation of bis(amidinohydrazones) by micellar electrokinetic capillary chromatography 608(1992)317

Factors influencing the separation and quantitation of intact glucosinolates and desulphoglucosinolates by micellar electrokinetic capillary chromatography 608(1992)363

Analysis of alkylaromatic sulphonates by high-performance capillary electrophoresis 608(1992)375

Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Simultaneous determination of nitrazepam and its metabolites in urine by micellar electrokinetic capillary chromatography 621(1993)249

Serum antipyrine concentrations determined by micellar electrokinetic capillary chromatography 622(1993)98

Separation and determination of 5-hydroxymethyl-2-furaldehyde and 2-furaldehyde in fruit juices by micellar electrokinetic capillary chromatography with direct sample injection 624(1992)503

Separation of polymyxins by micellar electrokinetic capillary chromatography 628(1993)309

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Determination of ten β -blockers in urine by micellar electrokinetic capillary chromatography 632(1993)143

Prediction of the migration behavior of organic acids in micellar electrokinetic chromatography 632(1993)177

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Capillary micellar electrokinetic, sequential multiwavelength chromatographic characterization of a chimeric monoclonal antibody-cytotoxin conjugate 635(1993)313

Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47

Identification of gonadorelin (LHRH) derivatives: comparison of reversed-phase high-performance liquid chromatography and micellar electrokinetic chromatography 636(1993)87

Resolution of diastereomeric phosphoramidate bridged unnatural oligonucleotides by micellar electrokinetic chromatography 636(1993)113

Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137

Role of capillary electrophoresis in specialty chemical research 636(1993)153

Optimization of separation of porphyrins by micellar electrokinetic chromatography using the overlapping resolution mapping scheme 637(1993)195

Optimization of phenylthiohydantoin amino acid separation by micellar electrokinetic capillary chromatography 638(1993)327

Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335

Determination of explosives residues in soils by micellar electrokinetic capillary chromatography and high-performance liquid chromatography. A comparative study 638(1993)349

High-performance liquid chromatography and micellar electrokinetic chromatography of flavonol glycosides from *Tilia* 638(1993)357

Fraction collection after an optimized micellar electrokinetic capillary chromatographic separation of nucleic acid constituents 638(1993)363

Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes 646(1993)397

Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469

Micellar liquid chromatography

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203

Optimization of the separation selectivity of a group of benzene and naphthalene derivatives in micellar high-performance liquid chromatography using a C₁₈ column and alcohols as modifiers in the mobile phase 646(1993)297

Micellar systems

Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophysial peptides and analogues 636(1993)95

Micelle binding constant

Prediction of the migration behavior of organic acids in micellar electrokinetic chromatography 632(1993)177

Micelle concentration

Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203

Micelle formation

Determination of C₈-C₂₀ saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Micelle forming reagents

Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469

Micelles

Simultaneous cation and reversed-phase chromatography 607(1992)135

Analogy between micelles and polymers of ionic surfactants. A capillary isotachopheretic study of small ionic aggregates in water-organic solutions 608(1992)131

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Micelles, surface charge density

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Microbiological assays

Column liquid chromatography and microbiological assay compared for determination of cefadroxil preparations 609(1992)181

Microcolumn liquid chromatography

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Microcolumns

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Micro liquid chromatography–mass spectrometry with direct liquid introduction used for separation and quantitation of all-*trans*- and 13-*cis*-retinoic acids and their 4-oxo metabolites in human plasma 617(1993)129

Developments in multidimensional separation systems (Review) 626(1992)3

Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene–divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75

Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography–mass spectrometry 647(1993)31

Microdialysis

Analysis of 6*R*- and 6*S*-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Microelectrodes

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Microemulsion electrokinetic chromatography

Microemulsion electrokinetic chromatography: comparison with micellar electrokinetic chromatography 608(1992)23

Micromembrane suppressor

Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography–thermospray mass spectrometry 627(1992)63

Microporous glass

Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79

Micropreparative HPLC

Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213

Microsequencing methods

Analytical and micropreparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Microsomes

Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289

Microspheres

Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Microspherical zirconia particles

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

Microtraps

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Micro vials

Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310

Microwave-induced atomic emission detector

Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305

Migration behaviour

Computer-aided optimization of gradient multiple-development thin-layer chromatography. I. Two-stage development 623(1992)139

Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235

Milk

Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorecamine derivatization 607(1992)31

Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography–high-resolution mass spectrometry 630(1993)297

Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419

Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195

Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Miniaturization

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Minicolumns

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Mixed-mode resins

Application of mixed-mode, solid-phase extraction in environmental and clinical chemistry. Combining hydrogen-bonding, cation-exchange and Van der Waals interactions 629(1993)11

Mixed-mode stationary phases

Separation of nucleotides and nucleosides by gradient macrocycle-based ion chromatography 602(1992)189

Mixed ligands

Electrophoretic determination of stability constants of Zn(II)- and Cd(II)-nitrilotriacetate-penicillamine mixed complexes 635(1993)171

Mobile phase composition

Evaluation of low-conductance eluents for suppressed ion-exclusion chromatography 602(1992)27

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Ion chromatography of metal cations on carboxylic acid resins 602(1992)111

The *S* index in the retention equation in reversed-phase high-performance liquid chromatography 603(1992)35

Reversed-phase liquid chromatography using monoalkylammonium compounds in the mobile phase. Effects of monoalkylammonium chain length on the efficiency, selectivity and separation of xanthine and uric acid derivatives 604(1992)203

Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19

Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33

Packed column subcritical fluid chromatography of underivatized amino acids 605(1992)95

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Simultaneous cation and reversed-phase chromatography 607(1992)135

Use of methyl and ethyl acetate as organic modifiers in reversed-phase high-performance liquid chromatography. Application to impurity control in bulk drug steroids 607(1992)175

Determination of hydroxy acids as their copper(II) complexes by reversed-phase liquid chromatography with UV detection 623(1992)55

Separation of oxidized human growth hormone variants by reversed-phase high-performance liquid chromatography. Effect of mobile phase pH and organic modifier 625(1992)207

Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223

High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181

Separation of C₆₀ and C₇₀ on polystyrene gel with toluene as mobile phase 628(1993)23

Optimization of the separation of technical aldicarb by semi-preparative reversed-phase high-performance liquid chromatography 628(1993)127

Simultaneous optimization of pH and organic modifier content of the mobile phase for the separation of chlorophenols using a Doehlert design 628(1993)171

Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153

Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1

- Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195
- Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23
- Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)89
- Separation of Beraprost sodium isomers using different cyclodextrin stationary phases 633(1993)97
- High-performance liquid chromatography of honey flavonoids 634(1993)41
- Modification of reversed-phase liquid chromatographic retention characteristics for metal-tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138
- Rapid and complete chiral chromatographic separation of racemic quaternary tropane alkaloids. Complementary use of a cellulose-based chiral stationary phase in reversed-phase and normal-phase modes—a mechanistic study 634(1993)205
- Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19
- Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89
- Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177
- Reversed-phase liquid chromatographic measurement of the influence of a co-modifier functional group on the retention behavior of the β -cyclodextrin-pyrene complex 635(1993)211
- Separation of some metals as their anionic oxalate complexes by reversed-phase ion-interaction chromatography 635(1993)257
- Size-exclusion chromatography of cellulose and chitin using lithium chloride-N,N-dimethylacetamide as a mobile phase 635(1993)334
- Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203
- Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75
- Separation of polysaccharide-specific human immunoglobulin G subclasses using a Protein A Superose column with a pH gradient elution system 639(1993)51
- Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87
- Optimization strategy for reversed-phase liquid chromatography of peptides 639(1993)117
- Evaluation of stationary phases for the separation of buckminsterfullerenes by high-performance liquid chromatography 639(1993)129
- Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41
- Determination and identification by high-performance liquid chromatography and spectrofluorimetry of twenty-three aromatic sulphonates in natural waters 640(1993)231
- Specific effects of modifiers in subcritical fluid chromatography of carotenoid pigments 641(1993)137
- Determination of stability constants of metal complexes from ion chromatographic measurements 641(1993)229
- New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391
- Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269
- Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67
- Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO_4 -containing eluents 645(1993)185
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53
- Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91
- Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13
- Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography-mass spectrometry 647(1993)31

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Mobile phase velocity

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Mobile phase velocity, reduced

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Mobility

High-performance thin-layer chromatographic mobility of porphyrins and their copper complexes on different adsorbents 609(1992)341

Mobility models

Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329

Mobility windows

Isotachopheresis superimposed on capillary zone electrophoresis 641(1993)363

Modifier effects

Specific effects of modifiers in subcritical fluid chromatography of carotenoid pigments 641(1993)137

Modifiers

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19

Molar absorptivity

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Molar mass distribution

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide-block-propylene oxide) 623(1992)315

Molecular connectivity indices

Calculation of retention indices by molecular topology. III. Chlorinated dibenzodioxins 628(1993)69

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251

Molecular descriptors

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

Molecular fragment summation

Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3

Molecular mass determination

Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345

Glycosaminoglycans and proteins: different behaviours in high-performance size-exclusion chromatography 630(1993)390

Determination of the average molecular size of glycosaminoglycans by fast protein liquid chromatography 637(1993)91

Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71

Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17

Mean square radius of molecules and secondary instrumental broadening 648(1993)27

Molecular mass distribution

Estimation of inter-detector lag in multi-detection gel permeation chromatography 635(1993)132

Analysis of polyethylene glycols with respect to their oligomer distribution by high-performance liquid chromatography 645(1993)135

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Molecular mass ratios

Size-exclusion chromatography in an analytical perspective 648(1993)19

Molecular modelling

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Molecular recognition

Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37

Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31

Molecular sieves

Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265

Analysis of carbon monoxide by molecular sieve trapping 639(1993)221

Molecular size determination

Analytical and micropreparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Mean square radius of molecules and secondary instrumental broadening 648(1993)27

Molecular size distribution

Analytical gel filtration of dextran for study of the glomerular barrier function 641(1993)63

Molecular structure parameters

Effects of molecular structure on the log k'_w index and linear S -log k'_w correlation in reversed-phase high-performance liquid chromatography 633(1993)31

Molecular topology

Molecular topology and chromatographic retention parameters for benzodiazepines 607(1992)91

Calculation of retention indices by molecular topology. III. Chlorinated dibenzodioxins 628(1993)69

Molecular toroid phases

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Molsieve 5A

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Mono Q

Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13

Multicomponent adsorption

Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1

Multicomponent analysis

Faster quantitative evaluation of high-performance liquid chromatography-ultraviolet diode-array data by multicomponent analysis 631(1993)15

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Multidimensional chromatography

Parallel cryogenic trapping multidimensional gas chromatography with directly linked infrared and mass spectral detection 645(1993)153

Multidimensional separation

Developments in multidimensional separation systems (Review) 626(1992)3

Multi-element selectivity

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Multigradient programming

Influence of linear velocity and multigradient programming in supercritical fluid chromatography 629(1993)345

Multi-ionophore detector

Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283

Multiple development

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Multiple eluent ion chromatography

Retention model of multiple eluent ion chromatography. *A priori* estimations of analyte capacity factor and peak intensity 627(1992)17

Multiple interaction stationary phases

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Multiple-ion detection

Recent progress in high-performance anion-exchange chromatography-thermospray mass spectrometry of oligosaccharides 647(1993)319

Multiple pathway reaction systems

Quantitative comparisons of reaction products using gas chromatography–mass spectrometry and dual-isotope techniques 627(1992)193

Multiple peaks

Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165

Multi-point detection

Simple multi-point detection method for high-performance capillary electrophoresis 604(1992)85

Multi-point interaction

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Multiresidue analysis

Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorecamine derivatization 607(1992)31

High-performance liquid chromatography–thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267

Multi-sample holder

Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310

Multivariate mapping

Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1

Multivariate techniques

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Mutagens

Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253

Mycobacterium

Gas chromatographic whole-cell fatty acid analysis as an aid for the identification of mixed mycobacterial cultures 617(1993)299

N**Natural beverages**

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

Near-infrared detector

Diode laser-based indirect absorbance detector for capillary electrophoresis 636(1993)39

Nebulizer

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Neural networks

Peak tracking with a neural network for spectral recognition 631(1993)145

Neutralization boundary, stationary

Electrically controlled electrofocusing of ampholytes between two zones of modified electrolyte with two different values of pH 638(1993)179

Noise canceler

Laser-based double beam absorption detector for high-performance liquid chromatography 645(1993)201

Noise coefficient

Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119

Non-linear adsorption isotherms

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Non-linear chromatography

Comparison of the various kinetic models of non-linear chromatography 603(1992)1

Plate-height equation for non-linear chromatography 606(1992)153

Shock layer thickness in the case of wide bands of single components and binary mixtures in non-linear liquid chromatography 609(1992)19

Introduction to the series “Non-linear waves in chromatography” 629(1993)95

Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97

Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37

Golay's paradox: linear *versus* non-linear chromatography 634(1993)334

The shock layer thickness, a new approach to the study of column performance in non-linear chromatography. I. Optimum linear velocity in frontal analysis 636(1993)189

Non-racemic mixtures

Computer simulation of three scenarios for the separation of non-racemic mixtures by chromatography on achiral stationary phases 605(1992)161

Non-size-related separation effects

Application of non-size-related separation effects to the purification of biologically active substances with a size-exclusion gel 639(1993)17

Non-steroidal anti-inflammatory agents

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Non-suppressed ion chromatography

Adsorption isotherm of undissociated eluent acid and its relation to the retention of system peaks in non-suppressed ion chromatography 644(1993)183

Non-uniform chromatography

Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119

Normal-phase chromatography

Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19

Northern blotting

Southern and Northern analysis (Review) 618(1993)133

Nuclear magnetic resonance spectrometry

Investigation of the human metabolism of antipyrine using coupled liquid chromatography and nuclear magnetic resonance spectroscopy of urine 617(1993)324

Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23

Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65

Nuclear power plant waters

Improved method for the determination of manganese in nuclear power plant waters 640(1993)371

Nuclear power reactor coolants

Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323

Numerical methods

Electromigration in systems with additives in background electrolytes. I. Addition of the neutral complexing agent 623(1992)337

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59



Obstructed diffusion

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Odour activity values

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Organic modifiers

Thin-layer chromatographic study of the lipophilicity of triazine herbicides. Influence of different organic modifiers 625(1992)392

Oil, tire fire runoff

Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in tire fire runoff oil 648(1993)213

Oils

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189

Oil wells

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Olefin hydrosilation

New alumina-based stationary phases for high-performance liquid chromatography. Synthesis by olefin hydrosilation on a silicon hydride-modified alumina intermediate 630(1993)95

Oligomeric distribution

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169

Olive oil

Comparative study of the determination of triacylglycerol in vegetable oils using chromatographic techniques 630(1993)213

On-column UV detection

Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135

Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

On-line analysis

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

On-line buffer exchange

Continuous buffer exchange of column chromatographic eluates using a hollow-fibre membrane module 639(1993)33

On-line extraction

Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33

On-line monitoring

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Open-tubular columns

Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

Study of polyorganosiloxanes (native and solvent swollen) for the preparation of narrow (5–15 μm I.D.) and long (1–6 m) open tubular columns in reversed-phase liquid chromatography 645(1993)41

Open-tubular liquid chromatography

Solute retention in open-tubular liquid chromatography with flowing retentive liquid 605(1992)167

Operation pressure limit

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Optical fibres

Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135

Optical purity determination

Preparative separation and analysis of the enantiomers of [^{14}C]Zileuton, a 5-lipoxygenase inhibitor 623(1992)390

Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)119

Optical resolution

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

Optical resolution by high-performance liquid chromatography on benzylcarbamates of cellulose and amylose 641(1993)267

Optical waveguides

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Optimization

Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179

Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19

Simplex optimization of the analysis of polychlorinated biphenyls. Application to the resolution of a complex mixture of congeners of interest on a single gas chromatographic column 607(1992)271

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Chiral separations in supercritical fluid chromatography: a multivariate optimization method 623(1992)129

Taguchi design experiments for optimizing the gas chromatographic analysis of residual solvents in bulk pharmaceuticals 623(1992)305

Optimization of the separation of technical aldicarb by semi-preparative reversed-phase high-performance liquid chromatography 628(1993)127

Simultaneous optimization of pH and organic modifier content of the mobile phase for the separation of chlorophenols using a Doehlert design 628(1993)171

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

Preconcentration of volatile components of foods: optimization of the steam distillation-solvent extraction at normal pressure 628(1993)261

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

Peak tracking with a neural network for spectral recognition 631(1993)145

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203

Optimization of separation of porphyrins by micellar electrokinetic chromatography using the overlapping resolution mapping scheme 637(1993)195

Optimization of phenylthiohydantoinamino acid separation by micellar electrokinetic capillary chromatography 638(1993)327

Implementation and use of gradient predictions for optimization of reversed-phase liquid chromatography of peptides. Practical considerations 639(1993)97

Optimization strategy for reversed-phase liquid chromatography of peptides 639(1993)117

Optimization of capillary zone electrophoresis-electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

Optimum operating parameters

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Orange essence

Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154

Orange juice

Column liquid chromatographic determination of flavanone glycosides in *Citrus*. Application to grapefruit and sour orange juice adulterations 634(1993)129

Organic modifiers

Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

Modification of reversed-phase liquid chromatographic retention characteristics for metal-tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269

Comparison of high-performance liquid chromatography and capillary electrophoresis in the analysis of somatostatin analogue peptides 648(1993)251

Organotin speciation

Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337

Organotransition metal chemistry

Particle beam liquid chromatography-mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79

Otitis media

Determination of ciprofloxacin levels in chinchilla middle ear effusion and plasma by high-performance liquid chromatography with fluorescence detection 617(1993)329

Overlapping resolution mapping

Optimization of separation of porphyrins by micellar electrokinetic chromatography using the overlapping resolution mapping scheme 637(1993)195

Overloaded elution mode

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

Ovomucoid-bonded silica columns

Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199

Ozonation

Identification by gas chromatography–electron-capture detection and gas chromatography–mass spectrometry of the ozonation products in wastewater from dicofol and tetradifon manufacturing 607(1992)311

Analysis of cellulose and kraft pulp ozonolysis products by anion-exchange chromatography with pulsed amperometric detection 640(1993)335

P

Packed capillary columns

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene–divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75

Packed columns, Tenax

Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297

Paint

Determination of mustard gas and related vesicants in rubber and paint by gas chromatography–mass spectrometry 625(1992)382

Panax ginseng

Determination of kinetin in callus of *Panax ginseng* by liquid chromatography 628(1993)122

Paper electrophoresis

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)–adenosine diphosphate nitrilotriacetate system 606(1992)147

Paper production

Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219

Parallel-current open-tubular liquid chromatography

Solute retention in open-tubular liquid chromatography with flowing retentive liquid 605(1992)167

Parallel processing

Peak tracking with a neural network for spectral recognition 631(1993)145

Paralog sorbents

“Paralogs”, sorbent families for protein separations 627(1992)51

Particle beam interface

Identification by particle-beam liquid chromatography–mass spectrometry of transformation products of the antioxidant Irganox 1330 in food-contact polymers subjected to electron-beam irradiation 629(1993)283

Organic acid analysis by ion chromatography–particle beam mass spectrometry 647(1993)95

Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101

Investigation into lacidipine and related metabolites by high-performance liquid chromatography–mass spectrometry 647(1993)155

Particle beam ionization

Thermospray, particle beam and electrospray liquid chromatography–mass spectrometry of azo dyes 627(1992)173

Particle-induced X-ray emission spectrometry

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. IV. Separation of metal ions in a non-radioactive model solution of a high-level liquid waste 633(1993)261

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215

Particle size

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Characterization of high-molecular-mass polyethylenes by gel permeation chromatography–low-angle laser-light scattering 648(1993)33

Partition coefficients

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{\text{app}} = 8$ 629(1993)123

Examination of some reversed-phase high-performance liquid chromatography systems for the determination of lipophilicity 630(1993)105

Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51

Critical comparison of gas-hexadecane partition coefficients as measured with packed and open tubular capillary columns 638(1993)43

Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Partitioning

Erythrocyte partitioning in dextran-poly(ethylene glycol) aqueous phase systems. Events in phase and cell separation 609(1992)219

Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63

Immobilized metal ion affinity partitioning of erythrocytes from different species in dextran-poly(ethylene glycol) aqueous phase systems 641(1993)279

Partition systems

High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181

Passive sampling

Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Peak area ratio

New approach for area determination of an overlapped pair of chromatographic peaks 623(1992)366

Peak assignment

Determination of volatile fatty acids in landfill leachates by high-performance liquid chromatography 629(1993)394

Faster quantitative evaluation of high-performance liquid chromatography-ultraviolet diode-array data by multicomponent analysis 631(1993)15

Comments on a report of the separation of the enantiomers of π -donor analytes on π -donor chiral stationary phases 639(1993)329

Method development approaches for capillary ion electrophoresis 640(1993)387

Peak distortions

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Peak height

Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3

Peak height ratios

Use of chromatographic peak-heights ratios for quantitative analysis: application to the separation of enantiomers 623(1992)371

Peak homogeneity

Peak homogeneity determination and micro-preparative fraction collection by capillary electrophoresis for pharmaceutical analysis 633(1993)221

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Peak intensity

Retention model of multiple eluent ion chromatography. *A priori* estimations of analyte capacity factor and peak intensity 627(1992)17

Peak overlap

New approach for area determination of an overlapped pair of chromatographic peaks 623(1992)366

Peak purity

Enhanced chromatographic peak-purity evaluation of phenolic solutes using pH-induced spectral transformations 626(1992)127

Faster quantitative evaluation of high-performance liquid chromatography-ultraviolet diode-array data by multicomponent analysis 631(1993)15

Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235

Peak resolution

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Peak shape

see also Band profiles

Comparison of high-performance liquid chromatographic methods for the analysis of basic drugs 623(1992)207

- Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177
- High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181
- Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97
- Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297
- Improved computer algorithm for characterizing skewed chromatographic band broadening. II. Results and comparisons 630(1993)69
- Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195
- Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19
- Peak spacing**
Effect of total percent polyacrylamide in capillary gel electrophoresis for DNA sequencing of short fragments. A phenomenological model 608(1992)143
- Peak tracking**
Peak tracking with a neural network for spectral recognition 631(1993)145
- Peat**
Identification of very-long-chain acids from peat and coals by capillary gas chromatography-mass spectrometry 627(1992)241
- Separation and identification of free amino acid enantiomers in peat by capillary gas chromatography 628(1993)269
- Penicillium chrysogenum***
Isolation and characterization of catalase from *Penicillium chrysogenum* 604(1992)177
- Peptide bonds**
Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165
- Peptide mapping**
High-performance liquid chromatography of oligosaccharide alditols and glycopeptides on a graphitized carbon column 609(1992)125
- Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235
- Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169
- Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature 646(1993)207
- Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213
- Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3
- Peptide-peptide interactions**
Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199
- Peptide surface topography**
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53
- Perfluorocarbon support**
Development of an enzyme-linked immunosorbent assay for C.I. Reactive Blue 2 and its application to a comparison of the stability and performance of a perfluorocarbon support with other immobilised C.I. Reactive Blue 2 affinity adsorbents 623(1992)1
- Perfusion chromatography**
Applications of mathematical modelling to the simulation of binary perfusion chromatography 644(1993)1
- Perfusion processes**
Fimbriated stationary phases for proteins 631(1993)107
- Permanently coated columns**
Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371
- Peroxyoxalate chemiluminescence**
Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129
- Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75
- Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309
- Pesticide registration**
Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75
- Petrol**
Assessment by gas chromatography-mass spectrometry of hexenes emitted to air from petrol 638(1993)65

Petroleum gases

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Phantom modulus

Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis 638(1993)165

Pharmaceutical analysis

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Phase separation, temperature induced

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Phase transfer

Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography–capillary gas chromatography 630(1993)201

Determination of polar pesticides by phase-transfer catalysed derivatization and negative-ion chemical ionization gas chromatography–mass spectrometry 644(1993)357

Phase transfer catalysis

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

pH effects

Adjustment of resolution and analysis time in capillary zone electrophoresis by varying the pH of the buffer 608(1992)161

Influence of pH on the migration properties of oligonucleotides in capillary gel electrophoresis 608(1992)175

pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3

Phenylboronate–agarose

Selective adsorption of immunoglobulins and glucosylated proteins on phenylboronate–agarose 604(1992)109

pH gradients

Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139

Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65

Separation of polysaccharide-specific human immunoglobulin G subclasses using a Protein A Superose column with a pH gradient elution system 639(1993)51

pH gradient simulator

pH gradient simulator for electrophoretic techniques in a Windows environment 630(1993)313

pH optimization

Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203

Phosphocellulose

Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a “concerted cluster” model of multivalent affinity 627(1992)145

Photoconversion

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Photodimerization

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Photoirradiation

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Photoisomerisation

Separation of retinoic acid all-*trans*, mono-*cis* and poly-*cis* isomers by reversed-phase high-performance liquid chromatography 637(1993)201

Photopolymerization

Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis 638(1993)165

Photoreactors

Applicability of a postcolumn photochemical reactor in the high-performance liquid chromatography of 34 polyphenolic compounds with UV detection 626(1992)117

pH–salt gradient

Isoprotein analysis by ion-exchange chromatography using a linear pH gradient combined with a salt gradient 639(1993)41

Phytoplankton

Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97

Piper guineense

Chromatographic isolation of insecticidal amides from *Piper guineense* root 607(1992)105

 π – π interactions

Concerning the role of face-to-edge π – π interactions in chiral recognition 607(1992)126

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Planar multistep development

Computer-aided optimization of gradient multiple development thin-layer chromatography. Part II. Multi-stage development 635(1993)283

Plant extracts

Boronic esters as derivatives for supercritical fluid chromatography of ecysteroids 639(1993)281

Analysis of plant extracts by multiple development thin-layer chromatography 646(1993)434

Plasma atomic emission detector, microwave-induced

Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271

Plasma desorption mass spectrometry

Structural characterization of polypeptides and proteins by combination of capillary electrophoresis and ^{252}Cf plasma desorption mass spectrometry 628(1993)111

Plasma source mass spectrometry

Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337

Plasma-spray ionization

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Plate height

Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Plate height equation

Plate-height equation for non-linear chromatography 606(1992)153

Plate number

Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79

Point mutations

Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149

Polarity

Assessment of the polarity of three liquid crystals used as gas chromatographic stationary phases 605(1992)276

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Two-solute method for indicating polarity changes of conventional and novel gas chromatographic stationary phases with temperature increase 628(1993)138

Evaluation of series-coupled gas chromatographic capillaries of different polarities. Application to the resolution of problem pairs of constituents in Algerian cypress essential oil 633(1993)163

Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361

Polarity index

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships 623(1992)83

Pollutants

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Polyacrylamide gels

Effect of total percent polyacrylamide in capillary gel electrophoresis for DNA sequencing of short fragments. A phenomenological model 608(1992)143

Polyacrylamide gels, non-cross-linked

Sodium dodecyl sulfate-capillary gel electrophoresis of proteins using non-cross-linked polyacrylamide 608(1992)349

Polyacrylamide matrices

Towards new formulations for polyacrylamide matrices, as investigated by capillary zone electrophoresis 638(1993)165

Polyanionic ligands

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Polycratic elution

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{\text{app}} = 8$ 629(1993)123

Polydispersity

Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71

Polyelectrolytes

Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37

Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53

Polyethylene glycol

Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. I. Physico-chemical properties of siliceous materials with immobilized Carbowax 20M layer 641(1993)205

Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. II. Application in high-performance liquid chromatography 641(1993)211

Polymerase chain reaction

Detection by capillary electrophoresis of restriction fragment length polymorphism. Analysis of a polymerase chain reaction-amplified product of the DXS 164 locus in the dystrophin gene 638(1993)277

Polymer-coated silica gels

Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57

Polymer film thickness

Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57

Polymer gels, porous

Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121

Polymeric coated particles

High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129

Polymer morphology

Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31

Polyorganosiloxanes

Study of polyorganosiloxanes (native and solvent swollen) for the preparation of narrow (5–15 μm I.D.) and long (1–6 m) open tubular columns in reversed-phase liquid chromatography 645(1993)41

Polysiloxane-coated capillaries

Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31

Polystyrene latex

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Poly(trimethylpropane trimethacrylate-co-glycidyl methacrylate)

Reactive carriers for the immobilization of copper ions 604(1992)5

Poly(vinylpyrrolidone)

Separation of diastereomeric derivatives of enantiomers by capillary zone electrophoresis with a polymer network: use of polyvinylpyrrolidone as buffer additive 639(1993)375

Pore diffusivity

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Pore size

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Application of a new numerical method for characterizing heterogeneous solids by using gas–solid chromatographic data 628(1993)59

Pore size distribution

Macromolecular porosimetry 648(1993)9

Pore structure

Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121

Porosimetry

Macromolecular porosimetry 648(1993)9

Porous glass sheets

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Porous graphitized carbon

Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs 631(1993)207

Separation of some chlorophenoxyacetic acid congeners on a porous graphitized carbon column 643(1993)331

Use of a porous graphitized carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317

Porous particles

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

Porous rigid spheres

Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57

Portable detectors

Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435

Positional isomers

Thin-layer chromatography of the positional isomers of some 1,2,3,4-tetrahydro-2-naphthol and 3-amino-1,2,3,4-tetrahydro-2-naphthol derivatives 628(1993)103

Positron emission

β^+ -Selective radiodetector for capillary electrophoresis 645(1993)319

Post-column complexation

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Post-column extraction

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Post-column hydrolysis

Determination of oxiracetam in human plasma by reversed-phase high-performance liquid chromatography with fluorimetric detection 631(1993)227

Post-column reactors

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)-resorcinol and Arsenazo-III 605(1992)63

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Applicability of a postcolumn photochemical reactor in the high-performance liquid chromatography of 34 polyphenolic compounds with UV detection 626(1992)117

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31

Determination of N-hydroxysuccinimidyl-activated polyethylene glycol esters by gel permeation chromatography with post-column alkaline hydrolysis 629(1993)398

Size-exclusion chromatographic determination of β -glucan with postcolumn reaction detection 632(1993)105

On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65

Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323

Highly selective ion chromatographic determination of ammonium ions in waters with a suppressor as postcolumn reactor 640(1993)351

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Post-column immobilized tyrosinase reactor for determination of L-3,4-dihydroxyphenylalanine and L-tyrosine by high-performance liquid chromatography with fluorescence detection 648(1993)481

Post-derivatization sample clean-up

High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography-electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35

Potency assays

Column liquid chromatography and microbiological assay compared for determination of cefadroxil preparations 609(1992)181

Precision

Precise quantitative capillary electrophoresis. Methodological and instrumental aspects 636(1993)31

Project ILSAP: an inter-laboratory study on accuracy and precision in isotachopheresis 638(1993)195

Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53

Precolumn addition

Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13

Precolumns

Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Precolumns, micro

Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151

Preconcentration, on-line

On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209

High-performance ion chromatographic separation of uranium and thorium in natural waters and geological materials 602(1992)119

On-column transient and coupled column isotachophoretic preconcentration of protein samples in capillary zone electrophoresis 608(1992)3

Preconcentration methods

Liquid chromatography–electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Analytical and micropreparative separation of peptides by capillary zone electrophoresis using discontinuous buffer systems 623(1992)345

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Injection of large volumes of aqueous solutions in capillary supercritical fluid chromatography and sample preconcentration by multiple injections 630(1993)307

Analysis of a dilute sample by capillary zone electrophoresis with isotachophoretic preconcentration 634(1993)101

Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75

Capillary zone electrophoresis of complex ionic mixtures with on-line isotachophoretic sample pretreatment 638(1993)137

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352

Ion-pair reversed-phase high-performance liquid chromatography for trace metal preconcentration followed by ion-interaction chromatography 640(1993)127

Ion-exchange preconcentration and group separation of ionic and neutral organic compounds 640(1993)145

Determination of cadmium and lead at $\mu\text{g/l}$ levels in aqueous matrices by chelation ion chromatography 640(1993)207

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Evaluation of capillary gas chromatography for the measurement of $\text{C}_2\text{--C}_{10}$ hydrocarbons in urban air samples for air pollution research 643(1993)77

Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography–electrochemical detection 643(1993)107

Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Preparative chromatography

Analytic solution for volume-overloaded gradient elution chromatography 605(1992)151

Step elution in preparative liquid chromatography 605(1992)175

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329

Preparative separation and analysis of the enantiomers of [^{14}C]Zileuton, a 5-lipoxygenase inhibitor 623(1992)390

Scale-up of recombinant protein purification by hydrophobic interaction chromatography 625(1992)33

Improvement of continuous counter-current gas–liquid chromatography for practical use 629(1993)291

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Separation of interleukins by a preparative chromatofocusing-like method 631(1993)277

Preparative resolution of praziquantel enantiomers by simulated counter-current chromatography 634(1993)215

Theoretical study of the ion-exchange preparative chromatography of a two-protein mixture 635(1993)1

Preparative chromatography of biomolecules (Review) 639(1993)3

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

Rapid synthesis of isoprenoid diphosphates and their isolation in one step using either thin layer or flash chromatography 645(1993)161

High-performance chiral displacement chromatographic separations in the normal-phase mode. II. Separation of the enantiomers of 1,2-O-dihexadecyl-*rac*-type naphthylalanine silica stationary phase 646(1993)259

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187

Preparative electrophoresis

Simple device for electroelution of proteins from a large number of pieces of polyacrylamide gel 635(1993)329

Pressure, effect on retention

Influence of pressure on solute retention in liquid chromatography 606(1992)248

Pressure drop

Characterization of a supercritical fluid chromatographic retention process with a large pressure drop by the temporal average density 603(1992)193

Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Pressure-flow limits

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Pressure programming

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Primary structure, proteins

Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165

Principal component analysis

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107

Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1

Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs 631(1993)207

Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs 633(1993)57

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

Process liquors

Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287

Process monitoring

Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1

Process-scale chromatography

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Process-scale separations

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Production rate

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Programmed-temperature injector

Solvent elimination rate in temperature-programmed injections of large sample volumes in capillary gas chromatography 623(1992)105

Programmed-temperature retention data

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

Programmed-temperature vaporizer

Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407

Propolis

Determination of phenolics from propolis by capillary gas chromatography 607(1992)150

Protein α -amino group

Evaluation of the interaction of protein α -amino groups with M(II) by immobilized metal ion affinity chromatography 604(1992)13

Protein A Superose

Separation of polysaccharide-specific human immunoglobulin G subclasses using a Protein A Superose column with a pH gradient elution system 639(1993)51

Protein binding

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107

Protein conformation, unfolding

Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269

Protein coupling

Studies of a novel membrane for affinity separations. I. Functionalisation and protein coupling 606(1992)19

Protein-drug binding

Study of protein-drug binding using capillary zone electrophoresis 608(1992)257

Protein-ligand interactions

Analytical and micropreparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Proteolytic digests

Semi-automated chromatographic procedure for the isolation of acetylated N-terminal fragments from protein digests 634(1993)241

Pseudo-electrochromatography

Pseudo-electrochromatography-negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375

Pseudomonas cepacia

Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288

Pseudomonas putida

Interaction of catechol-2,3-dioxygenase of *Pseudomonas putida* with immobilized histidine and histamine 644(1993)289

Pulp mill effluents

Liquid chromatography-electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Combined high-performance aqueous size-exclusion chromatographic and pyrolysis-gas chromatographic-mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263

Pulsed amperometric detector

High-performance liquid chromatographic separation and electrochemical detection of penicillins 633(1993)111

Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79

Purge-and-trap analysis

Determination of C₆-C₁₀ aromatic hydrocarbons in water by purge-and-trap capillary gas chromatography 628(1993)81

Purging efficiencies

Determination of selected chlorinated benzenes in water by purging directly to a capillary column with whole column cryotrapping and electron-capture detection 629(1993)321

Pyrolysis gas chromatography-mass spectrometry

Combined high-performance aqueous size-exclusion chromatographic and pyrolysis-gas chromatographic-mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263

Q

Quality control

Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267

Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75

Quantitation

Use of chromatographic peak-heights ratios for quantitative analysis: application to the separation of enantiomers 623(1992)371

Precise quantitative capillary electrophoresis. Methodological and instrumental aspects 636(1993)31

Quantitative structure-activity relationships

Prediction of drug binding to melanin using a melanin-based high-performance liquid chromatographic stationary phase and chemometric analysis of the chromatographic data 615(1993)281

Quantitative structure-retention relationships

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63

Quenching

Quenching in the flame photometric detector 641(1993)291

R

Radioactivity detection, on-line

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Radiochromatographic detector

Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265

Radiodetector

β^+ -Selective radiodetector for capillary electrophoresis 645(1993)319

Radio frequency-only daughter scan mode

Radiofrequency-only daughter scan mode to provide more spectral information in liquid chromatography-thermospray tandem mass spectrometry 647(1993)39

Radioimmunoassay

Comparison of immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250

Radiolabelling

Identification of radiolabeled metabolites of nicotine in rat bile. Synthesis of *S*-(-)-nicotine *N*-glucuronide and direct separation of nicotine-derived conjugates using high-performance liquid chromatography 621(1993)49

Raindrops

Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181

Rain water

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Rate constants

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Kinetic analysis of biotinylation of specific residues of peptides by high-performance liquid chromatography 631(1993)281

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67

Rate equation model

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Step elution in preparative liquid chromatography 605(1992)175

Reaction-detection

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Reaction product abundances

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

Reaction rates

Preparation of methyl esters of fatty acids with trimethylsulphonium hydroxide ---an appraisal 630(1993)438

Reaction stoichiometry

Chromatographic analysis of the reaction between thiosalicylic acid and selenious acid in methanol 635(1993)71

Receptor binding

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Recycling isoelectric focusing

Recycling isoelectric focusing: use of simple buffers 604(1992)73

Reduced plate height

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Reduced pressure

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Reduction gas detector

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Reductive trimethylsilylation

Gas chromatographic-mass spectrometric study of the reductive silylation of hydroxyquinones 645(1993)293

Refractive index detector

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221

Regulated methods

Regulated methods for ion analysis 602(1992)205

Rekker fragment system

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

Relative retention

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Gas chromatographic identification of halogenated hydrocarbons by using the correlation between their retention and boiling points 609(1992)289

Reptation

Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311

Resolution

Adjustment of resolution and analysis time in capillary zone electrophoresis by varying the pH of the buffer 608(1992)161

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3

Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic-fast atom bombardment mass spectrometric systems 647(1993)21

Response factors

Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295

Restriction fragment length polymorphism

Detection by capillary electrophoresis of restriction fragment length polymorphism. Analysis of a polymerase chain reaction-amplified product of the DXS 164 locus in the dystrophin gene 638(1993)277

Restrictors

Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321

Construction of a robust stainless-steel clad fused-silica restrictor for use in supercritical fluid extraction 648(1993)445

Retention

Progress in the design of selectors for buckminsterfullerene 609(1992)89

SUBJECT INDEX

Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107

Retention behaviour

The *S* index in the retention equation in reversed-phase high-performance liquid chromatography 603(1992)35

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Differential elution from a Sephadex G-15 column of sodium and phosphate ions of sodium phosphate with sodium or potassium phosphate buffer 604(1992)219

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Reversed-phase liquid chromatographic measurement of the influence of a co-modifier functional group on the retention behavior of the β -cyclodextrin-pyrene complex 635(1993)211

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269

Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Analysis of C_{60} and C_{70} fullerenes by high-performance liquid chromatography 648(1993)491

Retention coefficients

High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11

Retention data

New chromatographic hydrophobicity index (ϕ_o) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49

Retention data, effect of pressure

Influence of pressure on solute retention in liquid chromatography 606(1992)248

Retention equation

The *S* index in the retention equation in reversed-phase high-performance liquid chromatography 603(1992)35

Retention gap

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Retention indices

Identification of C_2 - C_4 alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Gas chromatographic identification of halogenated hydrocarbons by using the correlation between their retention and boiling points 609(1992)289

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Programmed-temperature gas chromatography. Comparative study of retention temperatures on four unequally polar stationary phases 627(1992)203

Gas chromatographic retention behaviour of alkylated phenanthrenes on a smectic liquid crystalline phase. Application to organic geochemistry 627(1992)227

Calculation of retention indices by molecular topology. III. Chlorinated dibenzodioxins 628(1993)69

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

- Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251
- Evaluation of series-coupled gas chromatographic capillaries of different polarities. Application to the resolution of problem pairs of constituents in Algerian cypress essential oil 633(1993)163
- Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345
- Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61
- Capillary gas chromatography of acidic non-steroidal antiinflammatory drugs as *tert.*-butyldimethylsilyl derivatives 641(1993)319
- Application of gas chromatographic retention properties to the identification of environmental contaminants 642(1993)409
- Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas-liquid chromatographic data 644(1993)95
- Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361
- Identification of lichen substances by a standardized high-performance liquid chromatographic method 646(1993)417
- Practical aspects in the utilization of the Sadtler Standard Gas Chromatography Retention Index Library 648(1993)395
- Gas chromatographic screening for neostigmine and physostigmine using temperature-programmed retention indices 648(1993)501
- Retention mechanisms**
Mixed retention mechanism in gas-liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225
- Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139
- Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69
- Effect of column length and elution mechanism on the separation of proteins by reversed-phase high-performance liquid chromatography 625(1992)217
- High-performance liquid chromatographic enantioseparation of glycyl di- and tripeptides on native cyclodextrin bonded phases. Mechanistic considerations 629(1993)169
- Gas chromatographic analysis of high-molecular-mass polycyclic aromatic hydrocarbons. II. Polycyclic aromatic hydrocarbons with relative molecular masses exceeding 328 630(1993)287
- New chromatographic hydrophobicity index (φ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49
- Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63
- Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135
- Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143
- Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187
- Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41
- Retention models**
Solvent-stationary phase interactions in normal bonded phase high-performance liquid chromatographic columns. I. Investigation of system peaks in amino bonded phase columns 603(1992)63
- Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299
- Retention model of multiple eluent ion chromatography. *A priori* estimations of analyte capacity factor and peak intensity 627(1992)17
- Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113
- Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203
- Retention model for the separation of anionic metal-EDTA complexes in ion chromatography 640(1993)15
- Correlation analysis in liquid chromatography of metal chelates. III. Multi-dimensional models in reversed-phase liquid chromatography 648(1993)307

Retention order

Relationships of structures of nitro-polycyclic aromatic hydrocarbons with high-performance liquid chromatography retention order 642(1993)107

Retention prediction

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Theoretical calculation of the retention of chlorobenzenes on non-polar and polar capillary columns connected in series 626(1992)207

High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11

Model building for the prediction of initial chromatographic conditions in pharmaceutical analysis using reversed-phase liquid chromatography 633(1993)43

Prediction of the retention of polynuclear aromatic hydrocarbons in programmed-temperature gas chromatography 634(1993)338

Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

Implementation and use of gradient predictions for optimization of reversed-phase liquid chromatography of peptides. Practical considerations 639(1993)97

Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3

Retention studies

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Retention temperature

Programmed-temperature gas chromatography. Comparative study of retention temperatures on four unequally polar stationary phases 627(1992)203

Retention time models

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182

Retention times

Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37

Retention times, programmed-temperature GC

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

Retention volume

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data 628(1993)59

Retinal pericyte

Rapid and sensitive anion-exchange high-performance liquid chromatographic determination of radiolabeled inositol phosphates and inositol triphosphate isomers in cellular systems 607(1992)19

Reverse transcriptase

Increased yield of homogeneous HIV-1 reverse transcriptase (p66/p51) using a slow purification approach 639(1993)67

Reviews

Chiral separation by analytical electromigration methods (Review) 609(1992)1

Reversed-phase and ion-pair separations of nucleotides, nucleosides and nucleobases: analysis of biological samples in health and disease (Review) 618(1993)3

Reversed-phase high-performance liquid chromatography of purine compounds for investigation of biomedical problems: application to different tissues and body fluids (Review) 618(1993)15

Prediction of the behaviour of oligonucleotides in high-performance liquid chromatography and capillary electrophoresis (Review) 618(1993)41

Isotachopheresis of nucleic acid constituents (Review) 618(1993)57

Comparison of properties of agarose for electrophoresis of DNA (Review) 618(1993)79

Methods for recovering nucleic acid fragments from agarose gels (Review) 618(1993)95

Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105

Southern and Northern analysis (Review) 618(1993)133

Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147

- Checking of individuality by DNA profiling (Review) 618(1993)167
- Quantitative analysis of enzymic digests of DNA using gel electrophoresis (Review) 618(1993)181
- Size-dependent chromatographic separation of nucleic acids (Review) 618(1993)203
- Field alternation gel electrophoresis — status quo (Review) 618(1993)223
- Application of high-performance liquid chromatography for recognition of covalent nucleic acid modification with anticancer drugs (Review) 618(1993)251
- Electrophoretic and chromatographic separation methods used to reveal interstrand crosslinking of nucleic acids (Review) 618(1993)277
- Methods used for analyses of “environmentally” damaged nucleic acids (Review) 618(1993)289
- Affinity chromatography with nucleic acid polymers (Review) 618(1993)315
- Column-switching techniques for high-performance liquid chromatography of drugs in biological samples (Review) 619(1993)177
- Sample preparation for chromatographic analysis of food (Review) 624(1992)3
- Advances in planar chromatography for the separation of food lipids (Review) 624(1992)11
- Thin-layer chromatography–flame ionization detection Iatrosan system (Review) 624(1992)21
- Gas chromatography of fatty acids (Review) 624(1992)37
- Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53
- Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81
- Chromatographic determination of vitamins in foods (Review) 624(1992)103
- Chromatographic analysis of antibiotic materials in food (Review) 624(1992)153
- Chromatographic methods of analysis for penicillins in food-animal tissues and their significance in regulatory programs for residue reduction and avoidance (Review) 624(1992)171
- Chromatographic methods for tetracycline analysis in foods (Review) 624(1992)195
- Chromatographic analysis of Maillard reaction products (Review) 624(1992)211
- Chromatographic analysis of anthocyanins (Review) 624(1992)221
- Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235
- Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253
- Capillary gas chromatography in quality assessment of flavours and fragrances (Review) 624(1992)267
- Chromatography of tea constituents (Review) 624(1992)293
- Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317
- Determination of aflatoxins in food products by chromatography (Review) 624(1992)341
- Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353
- Chromatographic separation of cholesterol in foods (Review) 624(1992)369
- Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389
- Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403
- High-performance liquid chromatographic methods for the determination of sulfonamides in tissue, milk and eggs (Review) 624(1992)411
- Methods for the determination of sulphonamides in meat (Review) 624(1992)425
- Phycotoxins in seafood — toxicological and chromatographic aspects (Review) 624(1992)439
- Application of ion chromatography to the determination of inorganic anions in foodstuffs (Review) 624(1992)457
- Developments in multidimensional separation systems (Review) 626(1992)3
- Hyphenated high-performance liquid chromatography–capillary gas chromatography (Review) 626(1992)25
- Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33
- Hydrodynamic and hydrostatic high-speed countercurrent chromatography and its coupling with various kinds of detectors. Application to biochemical separations (Review) 626(1992)41

- O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1
- Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97
- Analysis of carotenoids by high-performance liquid chromatography and supercritical fluid chromatography (Review) 633(1993)9
- Membrane-based sample preparation for chromatography (Review) 634(1993)1
- Capillary electrophoresis—mass spectrometry (Review) 636(1993)3
- Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1
- Preparative chromatography of biomolecules (Review) 639(1993)3
- Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79
- Complexation ion chromatography—an overview of developments and trends in trace metal analysis (Review) 640(1993)195
- Partition coefficients (*n*-octanol–water) for pesticides (Review) 642(1993)3
- Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15
- Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33
- Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47
- Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53
- Methods for the analysis of hazardous wastes (Review) 642(1993)65
- Environmental chromatographic methods and regulations in the United States of America (Review) 642(1993)75
- High-performance liquid chromatographic methods for the determination of N-methylcarbamate pesticides in water, soil, plants and air (Review) 642(1993)89
- Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135
- Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225
- Liquid–gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243
- Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263
- Supercritical fluid extraction in environmental analysis (Review) 642(1993)283
- Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319
- Determination of polycyclic aromatic hydrocarbons by liquid chromatography 642(1993)329
- Planar layer chromatography in the analysis of inorganic pollutants (Review) 642(1993)445
- Chromatographic techniques used to determine benz[c]acridines in environmental samples (Review) 643(1993)1
- Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91
- Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117
- Determination of benomyl and its degradation products by chromatographic methods in water, wettable powder formulations, and crops (Review) 643(1993)249
- Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261
- Thin-layer chromatographic methods for use in pesticide residue analysis (Review) 643(1993)271
- Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291
- Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369
- Chromatographic determination of volatile solvents and their metabolites in urine for monitoring occupational exposure (Review) 643(1993)389
- Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

River water

Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339

Determination of pesticides in river water by gas chromatography–mass spectrometry–selected-ion monitoring 643(1993)197

Robustness

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Rubber

Determination of mustard gas and related vesicants in rubber and paint by gas chromatography–mass spectrometry 625(1992)382

Rubia tinctorum

Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423

 R_M values

Thin-layer chromatography on silica gel of a homologous series of bis(alkylxanthato)nickel(II) complexes 628(1993)148

On the precise estimation of R_M values in reversed-phase thin-layer chromatography including aspects of pH dependence 639(1993)287

S**Saffron**

Methods for the analysis of the saffron metabolites crocin, crocetins, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187

Saliva

Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339

Salmon muscle tissue

Development of an assay for penicillin G in chinook salmon muscle tissue 626(1992)271

High-performance liquid chromatographic determination of sulphadiazine and trimethoprim in Chinook salmon muscle tissue 633(1993)105

Salting-out

Adsorption chromatography on cellulose. VIII. The salting-out behaviour of some peptides with aromatic groups 626(1992)301

Salting-out thin-layer chromatography of transition metal complexes. II. Mixed aminocarboxylatocobalt(III) complexes on a polyacrylonitrile sorbent 626(1992)305

Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75

Salting-out thin-layer chromatography

Salting-out thin-layer chromatography of transition metal complexes. I. Investigation of the behaviour of mixed aminocarboxylato cobalt(III) complexes on silica gel 609(1992)427

Salt solutions

Quantitative analysis of fluid inclusions in evaporites by ion chromatography 640(1993)279

SAMOS system

Fully automated multi-residue method for trace level monitoring of polar pesticides by liquid chromatography 642(1993)359

Sample carryover

Primary contribution of the injector to carryover of a trace analyte in high-performance liquid chromatography 631(1993)161

Sample enrichment

Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151

Sample fractionation

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Sample handling

Evaluation of capillary gas chromatography for the measurement of C_2 – C_{10} hydrocarbons in urban air samples for air pollution research 643(1993)77

Sample introduction

Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Sample loading

Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73

Sample loading volume

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81

Sample preparation

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography–mass spectrometry 621(1993)41

Sample preparation for chromatographic analysis of food (Review) 624(1992)3

Chromatographic separation of cholesterol in foods (Review) 624(1992)369

Determination of bacterial muramic acid by gas chromatography–mass spectrometry with negative-ion detection 628(1993)93

Structural characterization of polypeptides and proteins by combination of capillary electrophoresis and ^{252}Cf plasma desorption mass spectrometry 628(1993)111

Determination of coplanar polychlorobiphenyl congeners in biota samples 629(1993)329

Determination of volatile fatty acids in landfill leachates by high-performance liquid chromatography 629(1993)394

Carbohydrate analysis of fermentation broth by high-performance liquid chromatography utilizing solid-phase extraction 632(1993)87

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137

Determination and identification by high-performance liquid chromatography and spectrofluorimetry of twenty-three aromatic sulphonates in natural waters 640(1993)231

Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33

Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357

Environmental analysis of polychlorinated terphenyls: distribution in shellfish from the Ebro Delta (Mediterranean) 643(1993)399

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Sample pretreatment

Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151

Capillary electrophoresis with on-line sample pretreatment for the analysis of biological samples with direct injection 641(1993)375

Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235

Sample size

Optimization of the experimental conditions and the column design parameters in displacement chromatography 609(1992)35

Extra-column band broadening in high-temperature open-tubular liquid chromatography 633(1993)25

Sample stacking

Effect of sample stacking on resolution, calibration graphs and pH in capillary zone electrophoresis 629(1993)371

Options in electrolyte systems in combined capillary isotachopheresis and capillary zone electrophoresis 638(1993)119

Sampling methods

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography–mass spectrometry 609(1992)297

Determination of phloroglucinol in human plasma by gas chromatography–mass spectrometry 617(1993)140

Glass fibre prefilter–XAD-2 sampling and gas chromatographic determination of airborne chlorophenols 636(1993)255

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Sampling and analysis of volatile organic compounds in estuarine air by gas chromatography and mass spectrometry 643(1992)11

Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25

Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35

Evaluation of a modified Marcali technique with high-performance liquid chromatography-ultraviolet detection for the determination of 2,4-toluene diisocyanate in air 643(1993)51

Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357

Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407

Scale inhibitors

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Screening methods

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117

Seafood

Phycotoxins in seafood —toxicological and chromatographic aspects (Review) 624(1992)439

Sea water

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Secondary equilibrium isotope effects

Direct measurement of the inverse secondary isotope effects of Rh(I)-C₂H₄ and Rh(I)-C₂H₃D utilizing gas chromatography 607(1992)69

Secondary structures

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Sedimentation field-flow fractionation

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459

Sediments

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15

Selectivity

Microemulsion electrokinetic chromatography: comparison with micellar electrokinetic chromatography 608(1992)23

Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol 638(1993)283

- Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397
- Optimization of the separation selectivity of a group of benzene and naphthalene derivatives in micellar high-performance liquid chromatography using a C_{18} column and alcohols as modifiers in the mobile phase 646(1993)297
- Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451
- Selectivity coefficient**
Application of ion chromatography to the determination of selectivity coefficients 604(1992)282
- Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73
- Dispersion and selectivity indices of *n*-alkyl- and 1-(alkyl)alkylbenzenes 623(1992)178
- Anion-exchange selectivity of cyclic phosphate oligomers 644(1993)198
- Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361
- Self-stacking effect**
Sample self-stacking in zone electrophoresis. Theoretical description of the zone electrophoretic separation of minor compounds in the presence of bulk amounts of a sample component with high mobility and like charge 608(1992)47
- Semi-permeable surface packings**
Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51
- Sendai virus**
Effect of different amounts of the non-ionic detergents $C_{10}E_8$ and $C_{12}E_5$ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37
- Senega**
Determination of acidic saponins in crude drugs by high-performance liquid chromatography on octadecylsilyl porous glass 630(1993)408
- Sensitivity enhancement**
On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209
- Sensors**
Mapping of the antibody- and receptor-binding domains of granulocyte colony-stimulating factor using an optical biosensor. Comparison with enzyme-linked immunosorbent assay competition studies 646(1993)159
- Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283
- Separation dynamics**
Electromigration in systems with additives in background electrolytes. II. Ionic admixture 648(1993)233
- Separation mechanism**
Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241
- Sephacryl S-100 HR**
Application of non-size-related separation effects to the purification of biologically active substances with a size-exclusion gel 639(1993)17
- Sephadex G-15**
Differential elution from a Sephadex G-15 column of sodium and phosphate ions of sodium phosphate with sodium or potassium phosphate buffer 604(1992)219
- Sephadex gel**
Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43
- Sepharose gel**
Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43
- Sequencing methods**
Membrane fraction collection for capillary electrophoresis 608(1992)109
- Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175
- Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature 646(1993)207
- Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a "bio-engineered" variant by high-performance liquid chromatography–frit fast atom bombardment mass spectrometry 647(1993)301
- Series-coupled capillary columns**
Evaluation of series-coupled gas chromatographic capillaries of different polarities. Application to the resolution of problem pairs of constituents in Algerian cypress essential oil 633(1993)163
- Series-coupled capillary columns for the separation of $N,(O)$ -trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281
- Serratia marcescens**
Separation of isoforms of *Serratia marcescens* nuclease by capillary electrophoresis 645(1993)353
- Shake-flask method**
Partition coefficients (*n*-octanol–water) for pesticides (Review) 642(1993)3

Shape parameters

Influence of shape parameters on the separation of tetrachlorodibenzo-*p*-dioxin isomers on reversed-phase columns 628(1993)3

Shape selectivity

Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177

Shape-selective separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography on tetraphenylporphyrin-based stationary phases 641(1993)49

Sheepskin

Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

Shellfish

Determination of oxytetracycline in marine shellfish (*Crassostrea gigas*, *Ruditapes philippinarum* and *Scrobicularia plana*) by high-performance liquid chromatography using solid-phase extraction 627(1992)287

Environmental analysis of polychlorinated terphenyls: distribution in shellfish from the Ebro Delta (Mediterranean) 643(1993)399

Shellfish poisoning

Phycotoxins in seafood —toxicological and chromatographic aspects (Review) 624(1992)439

Shock layer

Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97

Shock layer thickness

Shock layer thickness in the case of wide bands of single components and binary mixtures in non-linear liquid chromatography 609(1992)19

The shock layer thickness, a new approach to the study of column performance in non-linear chromatography I. Optimum linear velocity in frontal analysis 636(1993)189

Signal processing

Different approaches for improving the precision in chromatographic analysis of environmental samples by optimum signal processing and correlation techniques (Review) 642(1993)53

Signal transduction

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Silanes, chiral

Chiral-bonded silica gel stationary phases obtained from chiral silanes for high-performance liquid chromatography. Comparison of performance with that of stationary phases obtained from γ -aminopropylsilica gel 606(1992)9

Silanization procedure

New alumina-based stationary phases for high-performance liquid chromatography. Synthesis by olefin hydrosilation on a silicon hydride-modified alumina intermediate 630(1993)95

Silanol blocking agents

Evaluation of silanol-deactivated silica-based reversed phases for liquid chromatography of erythromycin 630(1993)117

Silanol deactivation

Evaluation of silanol-deactivated silica-based reversed phases for liquid chromatography of erythromycin 630(1993)117

Silanol groups

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Silica gel

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Nitroxide radicals in studies of the fine bonded layer structure of modified silicas 646(1993)267

Silica gel, composite particles

Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49

Silica gel, conalbumin-conjugated

Conalbumin-conjugated silica gel, a new chiral stationary phase for high-performance liquid chromatography 603(1992)105

Silica gel, (3,3-dimethylbutyl)dimethylsiloxy-substituted

Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1

Silica gel, ferric ion-modified

Iron(III) ion-modified chromatographic silica preparations and characterization 626(1992)159

Silica gel, 3-morpholinopropylsilyl-modified

High-performance liquid chromatographic determination of sugars in an infusion and soft drinks using a silica-based 3-morpholinopropyl-bonded stationary phase 626(1992)266

Silica gel, non porous

Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49

Silica gel, squalane-coated

Mixed retention mechanism in gas-liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225

Silica gel, tetradecyldimethylsiloxy-substituted

Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1

Silica microspheres

Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19

Silicon wafer

Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310

Simplex optimization

Simplex optimization of the analysis of polychlorinated biphenyls. Application to the resolution of a complex mixture of congeners of interest on a single gas chromatographic column 607(1992)271

Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407

Simulated counter-current chromatography

Preparative resolution of praziquantel enantiomers by simulated counter-current chromatography 634(1993)215

Simulated isotachophoretic indices

Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4-10 628(1993)283

Simulation techniques

Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4-10 628(1993)283

S index

The *S* index in the retention equation in reversed-phase high-performance liquid chromatography 603(1993)35

Effects of molecular structure on the *S* index in the retention equation in reversed-phase high-performance liquid chromatography 606(1992)1

Single-column ion chromatography

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Single-strand conformation polymorphism

Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149

Size-dependent chromatography

Size-dependent chromatographic separation of nucleic acids (Review) 618(1993)203

Size-exclusion chromatographic partition coefficient

Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51

Size-exclusion chromatographic supports

Application of colloidal gold for characterization of supports used in size-exclusion chromatography 605(1992)193

Size-exclusion chromatography

see also Special issue index

Size-exclusion chromatography

Application of non-size-related separation effects to the purification of biologically active substances with a size-exclusion gel 639(1993)17

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Size-exclusion chromatography, coupling with capillary electrophoresis

Two-dimensional protein separation by microcolumn size-exclusion chromatography-capillary zone electrophoresis 633(1993)213

Size-exclusion gel media

Size-exclusion chromatography in an analytical perspective 648(1993)19

Skagerrak

Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239

Slalom chromatography

Size-dependent chromatographic separation of nucleic acids (Review) 618(1993)203

Sludge

Organic micropollutants in Swiss sewage sludge 643(1993)379

Snyder's selectivity triangle

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

Soft drinks

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Software

Macromolecular porosimetry 648(1993)9

Software review

Savant computer-based instruction series in HPLC: Troubleshooting high performance liquid chromatography (by D. Saunders) (Software Review) 644(1993)213

Soil

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

Extraction and analysis of diesel fuel by supercritical fluid extraction and microbore supercritical fluid chromatography 637(1993)175

Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography–diode-array detection 641(1993)89

Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435

Selective clean-up for polynuclear aromatic compounds in airborne particles and soil 643(1993)43

Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305

Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Soil analysis

High-speed supercritical fluid extraction method for routine measurement of polycyclic aromatic hydrocarbons in environmental soils with dichloromethane as a static modifier 641(1993)357

Solid-phase adsorption

Re-evaluation of solid-phase adsorption and desorption techniques for isolation of trace organic pollutants from chlorinated water 642(1993)185

Solid-phase catalysts

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Solid-phase derivatization

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

Solid-phase extraction

see also Special issue index

Solid-phase extraction

Solventless determination of caffeine in beverages using solid-phase microextraction with fused-silica fibers 603(1992)185

Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179

Solid-phase extraction of prostanoids using an automatic sample preparation system 607(1992)239

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

Gas chromatographic determination of zopiclone in plasma after solid-phase extraction 619(1993)310

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253

Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353

Determination of indolic compounds in pig back fat by solid-phase extraction and gradient high-performance liquid chromatography with special emphasis on the boar taint compound skatole 624(1992)479

Use of macroreticular resins in the analysis of water for trace organic contaminants, by G. A. Junk, J. J. Richard, M. D. Grieser, D. Witiak, J. L. Witiak, M. D. Arguello, R. Vick, H. J. Svec, J. S. Fritz and G. V. Calder, *J. Chromatogr.*, 99 (1974) 745–762 (Chromatographic Classic) 625(1992)87

- Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography-ion trap mass spectrometry 625(1992)247
- Determination of benzalkonium chloride in eye care products by high-performance liquid chromatography and solid-phase extraction or on-line column switching 625(1992)362
- Variables affecting the supercritical fluid extraction of analytes from octadecylsilane solid-phase sorbents 629(1993)3
- Application of mixed-mode, solid-phase extraction in environmental and clinical chemistry. Combining hydrogen-bonding, cation-exchange and Van der Waals interactions 629(1993)11
- Disruption and fractionation of biological materials by matrix solid-phase dispersion 629(1993)23
- High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography-electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzoyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35
- Solid-phase sample preparation of natural waters with reversed-phase disks 629(1993)41
- Automated solid-phase extraction of herbicides from water for gas chromatographic-mass spectrometric analysis 629(1993)55
- Optimization of sample application conditions for solid-phase extraction columns 629(1993)61
- Alternatives to methanol-water elution of solid-phase extraction columns for the fractionation of high log K_{ow} organic compounds in aqueous environmental samples 629(1993)67
- Fractionation of polar organic extracts of airborne particulate matter using cyanopropyl-bonded silica in solid-phase extraction 629(1993)75
- Application of solid-phase extraction in the determination of U-82217 in rat serum, urine and brain 629(1993)83
- High-performance liquid chromatographic method for the determination of dimethindene in urine 629(1993)89
- Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255
- High-performance liquid chromatographic determination of cardenolides in *Digitalis* leaves after solid-phase extraction 630(1993)402
- Determination of oxiracetam in human plasma by reversed-phase high-performance liquid chromatography with fluorimetric detection 631(1993)227
- Carbohydrate analysis of fermentation broth by high-performance liquid chromatography utilizing solid-phase extraction 632(1993)87
- Rapid method for the enrichment of very long-chain fatty acids from microorganisms 636(1993)249
- Determination and identification by high-performance liquid chromatography and spectrofluorimetry of twenty-three aromatic sulphonates in natural waters 640(1993)231
- Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135
- Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195
- Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211
- Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225
- Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117
- Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197
- Solid-phase extraction followed by high-performance liquid chromatographic analysis for monitoring herbicides in drinking water 643(1993)203
- Determination of diflubenzuron residues in water by solid-phase extraction and quantitative high-performance thin-layer chromatography 643(1993)337
- Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363
- Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99
- Solid-phase extractor interface**
Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Solid-phase microextraction

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Solid-phase minicolumns

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Solid-phase peptide synthesis

Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125

Solid-phase reagents

9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103

Solubility

Analysis of C_{60} and C_{70} fullerenes by high-performance liquid chromatography 648(1993)491

Solubility parameters

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141

Solute loading

Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19

Solute-matrix interactions

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Solute-packing interactions

pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3

Solute-silanol interaction

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Solute-solvent interactions

Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141

Solute-stationary phase interactions

Some aspects of the enantiorecognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233

Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91

Solute transfer properties

Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329

Solvation

Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177

Solvation equation

Hydrogen bonding. XXIII. Application of the new solvation equation to $\log V_g$ values for solutes on carbonaceous adsorbents 627(1992)294

Solvation parameters

Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas-liquid chromatographic data 644(1993)95

Solvation strength

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Solvation theory

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Solvatochromic parameters

Effects of molecular structure on the S index in the retention equation in reversed-phase high-performance liquid chromatography 606(1992)1

Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37

Accurate determination of $\log k'_w$ in reversed-phase liquid chromatography. Implications for quantitative structure-retention relationships 631(1993)63

Effects of molecular structure on the $\log k'_w$ index and linear S - $\log k'_w$ correlation in reversed-phase high-performance liquid chromatography 633(1993)31

Solvent composition

Effect of solvent composition and pH on R_f values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121

Solvent elimination rate

Solvent elimination rate in temperature-programmed injections of large sample volumes in capillary gas chromatography 623(1992)105

Solvent eluting strength

Correlation of the eluting strengths of solvents in adsorption chromatography with solvatochromic parameters 627(1992)37

Solvent evaporation

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

Solvent evaporation, on-line

Hyphenated high-performance liquid chromatography–capillary gas chromatography (Review) 626(1992)25

Solvent extraction

Determination of aflatoxins in food products by chromatography (Review) 624(1992)341

Preconcentration of volatile components of foods: optimization of the steam distillation–solvent extraction at normal pressure 628(1993)261

Solvent recovery system

Time- and cost-saving approach for liquid chromatography–mass spectrometry vacuum systems 641(1993)396

Solvents

Taguchi design experiments for optimizing the gas chromatographic analysis of residual solvents in bulk pharmaceuticals 623(1992)305

Solvent selectivity effects

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Solvent-split mode

Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407

Solvent strength

Thin-layer chromatographic study of the lipophilicity of triazine herbicides. Influence of different organic modifiers 625(1992)392

Solvent strength parameters

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

Solvent systems

Determination of the reactivity of uracil derivatives with respect to methyl iodide by high-performance thin-layer chromatographic densitometry 604(1992)261

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419

Sorbents

see also Adsorbents

Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419

Sorbents, metal-containing

Supercritical fluid extraction of metal-containing selective sorbents 637(1993)187

Sorption

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography–capillary gas chromatography 630(1993)201

Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329

Southern blotting

Southern and Northern analysis (Review) 618(1993)133

Soxhlet extraction

Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425

Spacer displacers

Purification of complex protein mixtures by ion-exchange displacement chromatography using spacer displacers 604(1992)39

Spacers

Preparation and chromatographic evaluation of 3,5-dimethylphenyl carbamoylated β -cyclodextrin stationary phases for normal-phase high-performance liquid chromatographic separation of enantiomers 628(1993)11

Spatial average density

Characterization of a supercritical fluid chromatographic retention process with a large pressure drop by the temporal average density 603(1992)193

Speciation

Speciation of aluminum using capillary zone electrophoresis with indirect UV detection 635(1993)307

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Spectral recognition

Peak tracking with a neural network for spectral recognition 631(1993)145

Spectral transformations, pH-induced

Enhanced chromatographic peak-purity evaluation of phenolic solutes using pH-induced spectral transformations 626(1992)127

Spermatozoa

Sperm cell heterogeneity revealed by centrifugal counter-current distribution in an aqueous two-phase system 617(1993)51

Spices

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485

Split peaks

Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97

Stability constants

Electrophoretic determination of stability constants of Zn(II)- and Cd(II)-nitrotriacetate-penicillamine mixed complexes 635(1993)171

Determination of stability constants of metal complexes from ion chromatographic measurements 641(1993)229

Stability-indicating assay

Simultaneous, stability-indicating capillary gas chromatographic assay for benzocaine and the two principal benzyl esters of Balsam Peru formulated in a topical ointment 623(1992)395

Stacked membrane columns

Dispersion in stacked-membrane chromatography 603(1992)43

Stadler Retention Index Library

Practical aspects in the utilization of the Sadtler Standard Gas Chromatography Retention Index Library 648(1993)395

Staining methods

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

Stainless steel

Application of ion chromatography to corrosion studies 602(1992)135

Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163

Stationary liquids

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Stationary phase retention

Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215

Studies on new cross-axis coil planet centrifuge for performing counter-current chromatography. III. Speculations on the hydrodynamic mechanism in stationary phase retention 644(1993)239

Stationary phases, GC

Assessment of the polarity of three liquid crystals used as gas chromatographic stationary phases 605(1992)276

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Separation and identification of all isomeric *n*-nonadecenes by capillary gas chromatography on a mesogenic stationary phase with Fourier transform infrared and mass spectrometric detection 609(1992)283

Gas chromatographic separation of polycyclic aromatic hydrocarbons on a mesomorphic copolysiloxane stationary phase 609(1992)414

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Gas chromatographic study of the inclusion properties of dibenzo-24-crown-8 ether 623(1992)297

Possible value for the gas chromatographic analysis of essential oils of some unusual phase commercial capillaries 626(1992)294

Programmed-temperature gas chromatography. Comparative study of retention temperatures on four unequally polar stationary phases 627(1992)203

Two-solute method for indicating polarity changes of conventional and novel gas chromatographic stationary phases with temperature increase 628(1993)138

Quantitative structure-retention relationship approach to prediction of linear solvation energy relationship coefficients. I. H-Bond acceptor capability of gas chromatography stationary phases in McReynolds data set 628(1993)247

- Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297
- Application of dithiocarbamate resin-metal complexes as stationary phases in gas chromatography 630(1993)275
- Gas chromatographic analysis of high-molecular-mass polycyclic aromatic hydrocarbons. II. Polycyclic aromatic hydrocarbons with relative molecular masses exceeding 328 630(1993)287
- Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135
- Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143
- Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1
- Immobilized polyethyleneglycol-based stationary phase for the analysis of amines and organic acids by capillary gas chromatography 637(1993)96
- Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255
- Structurally informative response patterns of some monoterpenoids found in volatile oils to gas chromatography on two commercial dipentylated cyclodextrin phases 639(1993)366
- Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189
- Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas-liquid chromatographic data 644(1993)95
- Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351
- Evaluation of the polarity of packed and capillary columns by different classification methods 646(1993)361
- Stationary phases, LC**
Applications of an alternative stationary phase for the separation of anions by chemically suppressed ion chromatography 602(1992)15
- Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51
- Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97
- Ion chromatography of metal cations on carboxylic acid resins 602(1992)111
- Separation of nucleotides and nucleosides by gradient macrocycle-based ion chromatography 602(1992)189
- Dispersion in stacked-membrane chromatography 603(1992)43
- Supports for liquid-liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73
- High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111
- Reactive carriers for the immobilization of copper ions 604(1992)5
- Application of colloidal gold for characterization of supports used in size-exclusion chromatography 605(1992)193
- Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography 605(1992)199
- Applications of high-performance ion chromatography in the mineral processing industry 606(1992)195
- Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49
- Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61
- Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69
- Progress in the design of selectors for buckminsterfullerene 609(1992)89
- Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133
- Comparison of high-performance liquid chromatographic methods for the analysis of basic drugs 623(1992)207
- New aliphatic boronate ligands for affinity chromatography 625(1992)91

- Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121
- Retention of C₆₀ and C₇₀ fullerenes on reversed-phase high-performance liquid chromatographic stationary phases 625(1992)131
- Iron(III) ion-modified chromatographic silica preparations and characterization 626(1992)159
- "Paralogs", sorbent families for protein separations 627(1992)51
- Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125
- Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153
- Stability of immunoabsorbents comprising antibody fragments. Comparison of Fv fragments and single-chain Fv fragments 629(1993)161
- Retention on non-polar adsorbents in liquid-solid chromatography. Effect of grafted alkyl chains 630(1993)1
- New alumina-based stationary phases for high-performance liquid chromatography. Synthesis by olefin hydrosilation on a silicon hydride-modified alumina intermediate 630(1993)95
- Evaluation of silanol-deactivated silica-based reversed phases for liquid chromatography of erythromycin 630(1993)117
- Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23
- Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37
- Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91
- Fimbriated stationary phases for proteins 631(1993)107
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXIV. Physical characterisation of fluidized-bed behaviour of chromatographic packing materials 631(1993)115
- Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs 631(1993)207
- Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79
- Separation of Beraprost sodium isomers using different cyclodextrin stationary phases 633(1993)97
- Evaluation of several affinity chromatographic supports for the purification of maltose-binding protein from *Escherichia coli* 633(1993)273
- Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161
- Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183
- Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197
- Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229
- Comparative study of liquid chromatographic methods for the determination of cefadroxil 634(1993)257
- Normal-phase high-performance liquid chromatography with highly purified porous silica microspheres 635(1993)19
- High-performance liquid chromatographic determination of mexiletine in film-coated tablets using a new polymeric stationary phase 635(1993)155
- Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177
- Synthesis and characterization of highly stable polymer-coated aminosilica packing material for high-performance liquid chromatography 635(1993)187
- Evaluation of reversed-phase columns for the analysis of very basic compounds by high-performance liquid chromatography. Application to the determination of the tobacco alkaloids 636(1993)213
- Comparison of three activated agaroses for use in affinity chromatography: effects on coupling performance and ligand leakage 639(1993)23
- Evaluation of stationary phases for the separation of buckminsterfullerenes by high-performance liquid chromatography 639(1993)129
- Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197
- Anion chromatography with a crown ether-based stationary phase and an organic modifier in the eluent 640(1993)33

- Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41
- Anion chromatography on hydroxyethyl methacrylate-based sorbents 640(1993)49
- Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57
- Novel weak acid cation-exchange column 640(1993)65
- Comparison of silica-based and polymer-based cation exchangers for the ion chromatographic separation of transition metals 640(1993)167
- Shape-selective separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography on tetraphenylporphyrin-based stationary phases 641(1993)49
- Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101
- Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. I. Physico-chemical properties of siliceous materials with immobilized Carbowax 20M layer 641(1993)205
- Siliceous sorbents with immobilized Carbowax 20M as column packings for liquid chromatography. II. Application in high-performance liquid chromatography 641(1993)211
- Relationships of structures of nitro-polycyclic aromatic hydrocarbons with high-performance liquid chromatography retention order 642(1993)107
- Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371
- Separation of some chlorophenoxyacetic acid congeners on a porous graphitized carbon column 643(1993)331
- Preparative separation of higher fullerenes by high-performance liquid chromatography on a tetrachlorophthalimidopropyl-modified silica column 644(1993)188
- Ultratrace anion analysis of high-purity water. A column comparison 644(1993)333
- High-performance liquid chromatographic separation of fullerenes (C₆₀ and C₇₀) using chemically bonded γ -cyclodextrin as stationary phase 644(1993)396
- Use of carotenoids in the characterization of octadecylsilane bonded columns and mechanism of retention of carotenoids on monomeric and polymeric stationary phases 645(1993)29
- Study of polyorganosiloxanes (native and solvent swollen) for the preparation of narrow (5–15 μ m I.D.) and long (1–6 m) open tubular columns in reversed-phase liquid chromatography 645(1993)41
- Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57
- Evaluation of deactivated reversed phases for the analysis of an N,N,N-trimethylethanaminium analogue of α -tocopherol. Application to its purity control and determination in biological samples 645(1993)251
- Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography 646(1993)121
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143
- Nitroxide radicals in studies of the fine bonded layer structure of modified silicas 646(1993)267
- Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289
- Use of a porous graphitized carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317
- Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411
- Size-exclusion chromatography in an analytical perspective 648(1993)19
- Characterization of high-molecular-mass polyethylenes by gel permeation chromatography-low-angle laser-light scattering 648(1993)33
- Dimethoxyphenylpropyl bonded silica phase for higher fullerenes separation by high-performance liquid chromatography 648(1993)71
- Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79
- High-performance liquid chromatography of neutral oligosaccharides on a β -cyclodextrin bonded phase column 648(1993)131

Analysis of C₆₀ and C₇₀ fullerenes by high-performance liquid chromatography 648(1993)491

Stationary phases, SFC

Separation of unsaturated fatty acid methyl esters by packed capillary supercritical fluid chromatography. Comparison of different column packings 605(1992)263

Packed-column supercritical fluid chromatography of omeprazole and related compounds. Selection of column support with triethylamine- and methanol-modified carbon dioxide as the mobile phase 628(1993)275

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75

Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Stationary phases, TLC

Adsorption chromatography on cellulose. IX. Chiral separations with aqueous solvents and liquid-liquid systems 635(1993)346

Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357

Stationary phase solvation

Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177

Stationary phase swelling

Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213

Statistical thermodynamics

Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329

Steam distillation

Preconcentration of volatile components of foods: optimization of the steam distillation-solvent extraction at normal pressure 628(1993)261

Step elution

Step elution in preparative liquid chromatography 605(1992)175

Stereoselective catalytic reduction

High-performance liquid chromatographic determination of the enantiomeric excess of 1,3-glycerol diethers obtained by stereoselective catalytic reduction 604(1992)197

Stereoselective interactions

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Stereoselectivity

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Steric effects

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Steric exclusion

Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1

Steric mass action model

Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37

Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53

Steric selectivity

Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121

Stoichiometric displacement model

Theoretical study of the ion-exchange preparative chromatography of a two-protein mixture 635(1993)1

Stokes radius

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51

Structural analysis

Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Structure–polarity relationships

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure–polarity relationships 623(1992)83

Structure–retention relationships

Effects of molecular structure on the *S* index in the retention equation in reversed-phase high-performance liquid chromatography 606(1992)1

Molecular topology and chromatographic retention parameters for benzodiazepines 607(1992)91

Gas chromatographic retention of carbohydrate trimethylsilyl ethers. IV. Disaccharides 607(1992)221

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Influence of shape parameters on the separation of tetrachlorodibenzo-*p*-dioxin isomers on reversed-phase columns 628(1993)3

Quantitative structure–retention relationship approach to prediction of linear solvation energy relationship coefficients. I. H-Bond acceptor capability of gas chromatography stationary phases in McReynolds data set 628(1993)247

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Examination of some reversed-phase high-performance liquid chromatography systems for the determination of lipophilicity 630(1993)105

Structure–gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251

Separation of tetrachloro-*p*-dioxin isomers by high-performance liquid chromatography with electron-acceptor and electron-donor stationary phases 634(1993)169

Shape-selective separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography on tetraphenylporphyrin-based stationary phases 641(1993)49

Relationships of structures of nitro-polycyclic aromatic hydrocarbons with high-performance liquid chromatography retention order 642(1993)107

Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17

Particle beam liquid chromatography–mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79

Subcritical fluid chromatography

Packed column subcritical fluid chromatography of underivatized amino acids 605(1992)95

Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329

Specific effects of modifiers in subcritical fluid chromatography of carotenoid pigments 641(1993)137

Use of carotenoids in the characterization of octadecylsilane bonded columns and mechanism of retention of carotenoids on monomeric and polymeric stationary phases 645(1993)29

Subunit structure analysis

Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345

Summit

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

Sunflower oil

Comparative study of the determination of triacylglycerol in vegetable oils using chromatographic techniques 630(1993)213

Supercritical fluid chromatography

Characterization of a supercritical fluid chromatographic retention process with a large pressure drop by the temporal average density 603(1992)193

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Development of directly coupled supercritical fluid chromatography with packed capillary column–mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

- Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103
- Separation of unsaturated fatty acid methyl esters by packed capillary supercritical fluid chromatography. Comparison of different column packings 605(1992)263
- Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79
- Chiral separations in supercritical fluid chromatography: a multivariate optimization method 623(1992)129
- Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide)-block-propylene oxide) 623(1992)315
- Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323
- Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299
- Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311
- Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53
- Supercritical fluid chromatography of *Fusarium* mycotoxins 627(1992)247
- Packed-column supercritical fluid chromatography of omeprazole and related compounds. Selection of column support with triethylamine- and methanol-modified carbon dioxide as the mobile phase 628(1993)275
- Influence of linear velocity and multigradient programming in supercritical fluid chromatography 629(1993)345
- Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361
- Injection of large volumes of aqueous solutions in capillary supercritical fluid chromatography and sample preconcentration by multiple injections 630(1993)307
- Analysis of carotenoids by high-performance liquid chromatography and supercritical fluid chromatography (Review) 633(1993)9
- Extraction and analysis of diesel fuel by supercritical fluid extraction and microbore supercritical fluid chromatography 637(1993)175
- Validation of the aromatic ring distribution in diesel fuel refinery streams by supercritical fluid chromatography and mass spectrometry 637(1993)181
- Mass transfer in open-tubular supercritical fluid chromatography 637(1993)213
- Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75
- Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85
- Boronic esters as derivatives for supercritical fluid chromatography of ecdysteroids 639(1993)281
- Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125
- Thermodynamic pitfalls in chromatography revisited: supercritical fluid chromatography 641(1993)329
- Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337
- Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409
- Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351
- Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221
- Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451
- Supercritical fluid chromatography-mass spectrometry**
see also Special issue index
- Supercritical fluid chromatography-mass spectrometry**
Utilization of a benchtop mass spectrometer with capillary supercritical fluid chromatography 633(1993)195
- Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 641(1993)347
- Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341
- Supercritical fluid extraction**
In situ extraction and derivatization of pentachlorophenol and related compounds from soils using a supercritical fluid extraction system 605(1992)109

- Recovery of diesel fuel from clays by supercritical fluid extraction–gas chromatography 606(1992)221
- Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321
- Supercritical fluid extraction of nitrated polycyclic aromatic hydrocarbons and polycyclic aromatic hydrocarbons from diesel exhaust particulate matter 609(1992)333
- Developments in multidimensional separation systems (Review) 626(1992)3
- Supercritical fluid extraction of polychlorinated biphenyls and pesticides from soil. Comparison with other extraction methods 626(1992)135
- Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255
- Variables affecting the supercritical fluid extraction of analytes from octadecylsilane solid-phase sorbents 629(1993)3
- Supercritical fluid extraction of synthetic organochlorine compounds in submerged aquatic plants 632(1993)119
- Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297
- Determination of phenolics from sediments of pulp mill origin by *in situ* supercritical carbon dioxide extraction and derivatization 636(1993)263
- Extraction and analysis of diesel fuel by supercritical fluid extraction and microbore supercritical fluid chromatography 637(1993)175
- Supercritical fluid extraction of metal-containing selective sorbents 637(1993)187
- High-speed supercritical fluid extraction method for routine measurement of polycyclic aromatic hydrocarbons in environmental soils with dichloromethane as a static modifier 641(1993)357
- Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33
- Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species (Review) 642(1993)225
- Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263
- Supercritical fluid extraction in environmental analysis (Review) 642(1993)283
- Factors controlling quantitative supercritical fluid extraction of environmental samples 642(1993)301
- Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409
- Construction of a robust stainless-steel clad fused-silica restrictor for use in supercritical fluid extraction 648(1993)445
- Supercritical fluid extraction–liquid chromatography system**
Tandem supercritical fluid extraction and liquid chromatography system for determination of chlorinated phenols in solid matrices 639(1993)151
- Supercritical fluids**
Recent developments in the use of supercritical fluids in coupled systems (Review) 626(1992)33
- Superose 6**
pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3
- Suppressors**
Evaluation of low-conductance eluents for suppressed ion-exclusion chromatography 602(1992)27
- New membrane-based electrolytic suppressor device for suppressed conductivity detection in ion chromatography 640(1993)97
- Surface area**
Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49
- Studies of a novel membrane for affinity separations. I. Functionalisation and protein coupling 606(1992)19
- Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129
- Surface charge density, micelles**
Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31
- Surface interaction**
High-performance liquid chromatography of amino acids, peptides and proteins. CXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67
- Surface ionization**
New ionization strategies in particle-beam liquid chromatography–mass spectrometry based on the principle of surface ionization 647(1993)63

Surface tension

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Surface water

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Determination of nitrate in surface waters by ion-exchange chromatography after oxidation of total organic nitrogen to nitrate 644(1993)345

Sweet potato

Thiophilic interaction chromatography of sweet potato β -amylase 604(1992)103

Swelling, stationary phase

Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299

Switching valve

Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

System peaks

Solvent-stationary phase interactions in normal bonded phase high-performance liquid chromatographic columns. I. Investigation of system peaks in amino bonded phase columns 603(1992)63

Theoretical and experimental aspects of indirect detection in capillary electrophoresis 608(1992)97

Behaviour of the system peak in ion chromatography with indirect ultraviolet absorption detection and trimellitate as eluent 623(1992)148

Adsorption isotherm of undissociated eluent acid and its relation to the retention of system peaks in non-suppressed ion chromatography 644(1993)183

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

System robustness testing

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

System suitability parameters

Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1

T**Tagged resins**

9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103

Taguchi design experiments

Taguchi design experiments for optimizing the gas chromatographic analysis of residual solvents in bulk pharmaceuticals 623(1992)305

Tanacetum parthenium

Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255

Tandem mass spectrometry

see also Special issue index

Tandem mass spectrometry

Comparison of gas chromatographic-mass spectrometric methods for screening of chlorotriazine pesticides in soil 603(1992)175

Tea

Chromatography of tea constituents (Review) 624(1992)293

Temperature effects

Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163

Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419

Axial temperature effects in electromigration 644(1993)161

Temperature evolution, electrophoresis

Unsteady heat transfer in capillary zone electrophoresis. I. A mathematical model 606(1992)95

Unsteady heat transfer in capillary zone electrophoresis. II. Computer simulations 606(1992)103

Temperature programming

Programmed-temperature gas chromatography. Comparative study of retention temperatures on four unequally polar stationary phases 627(1992)203

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

Prediction of the retention of polynuclear aromatic hydrocarbons in programmed-temperature gas chromatography 634(1993)338

Temperature programming, CE

Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137

Temporal average density

Characterization of a supercritical fluid chromatographic retention process with a large pressure drop by the temporal average density 603(1992)193

Thermal conductivity detector

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Thermal desorption

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography-mass spectrometry 609(1992)297

Thermal desorption cold trap-injection in high-resolution gas chromatography: multivariate optimization of experimental conditions 623(1992)93

Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography-mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71

Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417

Sampling and analysis of volatile organic compounds in estuarine air by gas chromatography and mass spectrometry 643(1992)11

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Thermal desorption mass spectrometry

Field detection of organochlorine pesticides by thermal desorption gas chromatography-mass spectrometry 625(1992)277

Thermal effects

Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323

Thermal field flow fractionation

Use of thermal field flow fractionation for the fractionation of polybutadiene in various organic solvents 644(1993)83

Thermally treated silicas

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Thermal transitions

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Thermionic detector

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Thermodynamic parameters

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163

Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37

Recognition of enantiomers by Chirasil-Val and oligopeptide analogues as studied by gas-phase calorimetry and ¹H NMR spectroscopy in solution 634(1993)65

Thermodynamic study of polystyrene-*n*-alkane systems by inverse gas chromatography 641(1993)301

Anion-exchange selectivity of cyclic phosphate oligomers 644(1993)198

Hydrogen bonding. XXVIII. Comparison of the solvation theories of Abraham and Poole, using a new acidic gas-liquid chromatography stationary phase 646(1993)351

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Thermodynamics

Influence of pressure on solute retention in liquid chromatography 606(1992)248

Thermospray interface

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic–thermospray mass spectrometric applications 626(1992)81

Phytoecdysteroid analysis by high-performance liquid chromatography–thermospray mass spectrometry 641(1993)81

Applications of dual-beam thermospray liquid chromatography–mass spectrometry 647(1993)73

Use of liquid chromatography–thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147

Investigation into lacidipine and related metabolites by high-performance liquid chromatography–mass spectrometry 647(1993)155

Recent progress in high-performance anion-exchange chromatography–thermospray mass spectrometry of oligosaccharides 647(1993)319

Thermospray ionization

Thermospray, particle beam and electrospray liquid chromatography–mass spectrometry of azo dyes 627(1992)173

Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis–thermospray tandem mass spectrometry 647(1993)329

Thermospray mass spectrometry

Analysis of alkylpyrrole autoxidation products by high-performance liquid chromatography with thermospray mass spectrometry and UV photodiode-array detection 628(1993)37

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

High-performance liquid chromatography–thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267

Thiophilic interactions

Thiophilic interaction chromatography of sweet potato β -amylase 604(1992)103

Thomas model

Comparison of the various kinetic models of non-linear chromatography 603(1992)1

Tilia

High-performance liquid chromatography and micellar electrokinetic chromatography of flavonol glycosides from *Tilia* 638(1993)357

Time-resolved fluorescence detection

Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245

Time-varying chromatography

Variance of a zone migrating in a linear medium. II. Time-varying non-uniform medium 637(1993)119

Tissue

Simultaneous determination of paraquat and diquat in human tissues by high-performance liquid chromatography 617(1993)119

Tissue screening methods

Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15

Titan's atmosphere

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Titration curves

Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155

Tobacco

Determination of maleic hydrazide residues in cured tobacco by gas chromatography 604(1992)243

Tobacco smoke

Assessment of ambient volatile hydrocarbons from tobacco smoke and from vehicle emissions 643(1993)71

Tolypocladium

Optimization of high-performance liquid chromatographic conditions for the determination of cyclosporins A, B and C in fermentation samples 604(1992)285

Topological indices

Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure–polarity relationships 623(1992)83

Structure–gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

- Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251
- Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182
- Toyopearl**
Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281
- Trace analysis**
Determination of trace anions in concentrated acids by means of a moderate-capacity anion-exchange column 602(1992)89
- Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213
- Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo) resorcinol and Arsenazo-III 605(1992)63
- Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques 607(1992)319
- Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography-mass spectrometry 609(1992)297
- Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93
- Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339
- Ambient temperature gas purifier suitable for the trace analysis of carbon monoxide and hydrogen and the preparation of low-level carbon monoxide calibration standards in the field 630(1993)257
- Primary contribution of the injector to carryover of a trace analyte in high-performance liquid chromatography 631(1993)161
- Determination of ammonia as its benzenesulphonyldimethylaminomethylene derivative in environmental water samples by gas chromatography with flame photometric detection 633(1993)311
- Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47
- Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197
- Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151
- Complexation ion chromatography—an overview of developments and trends in trace metal analysis (Review) 640(1993)195
- Trace determination of weathered atrazine and terbutylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89
- Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163
- Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117
- Re-evaluation of solid-phase adsorption and desorption techniques for isolation of trace organic pollutants from chlorinated water 642(1993)185
- Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205
- Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197
- Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73
- Variables affecting the introduction of large sample volumes in capillary gas chromatography using a programmed-temperature vaporizer 648(1993)407
- Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415
- Trace enrichment**
New approach to the analysis of low levels of anions in water 602(1992)79
- Isolation, trace enrichment and liquid chromatographic analysis of diacetylphloroglucinol in culture and soil samples using UV and amperometric detection 606(1992)171
- Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Rapid method for the enrichment of very long-chain fatty acids from microorganisms 636(1993)249

Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35

Comparison of reversed-phase extraction sorbents for the on-line trace enrichment of polar organic compounds in environmental aqueous samples 642(1993)211

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125

Transesterification catalysts

Preparation of methyl esters of fatty acids with trimethylsulphonium hydroxide --an appraisal 630(1993)438

Transformation

Determination of the explosive 2,4,6-trinitrophenylmethyl nitramine (tetryl) and its transformation products in soil 605(1992)227

Transformer oils

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Transient time

Unsteady heat transfer in capillary zone electrophoresis. I. A mathematical model 606(1992)95

Trapping columns

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Trapping efficiency

Trapping efficiencies of capillary cold traps for C₂-C₁₀ hydrocarbons 627(1992)219

Evaluation of a modified Marcali technique with high-performance liquid chromatography-ultraviolet detection for the determination of 2,4-toluene diisocyanate in air 643(1993)51

Continuous gas chromatographic monitoring of low concentration sample streams using an on-line microtrap 648(1993)415

Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117

Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175

Trapping systems

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Trapping systems, LC-MS

Time- and cost-saving approach for liquid chromatography-mass spectrometry vacuum systems 641(1993)396

Tree bark

Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435

Two-dimensional electrophoresis

Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345

Two-level factorial design

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Two-phase systems

Supports for liquid-liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73

Transport of solutes across aqueous phase interfaces by electrophoresis. Mathematical modeling 607(1992)113

Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75

Two-point contact

Thin-layer chromatography of the positional isomers of some 1,2,3,4-tetrahydro-2-naphthol and 3-amino-1,2,3,4-tetrahydro-2-naphthol derivatives 628(1993)103

Two-step gradients

Computer-aided optimization of gradient multiple-development thin-layer chromatography. I. Two-stage development 623(1992)139

U**Ultrafiltration**

Membrane-based sample preparation for chromatography (Review) 634(1993)1

Ultra-thick-film capillary trap

Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117

Unfolding processes

Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91

UV spectrophotometer, rapid scanning

Investigation of γ -irradiation of α -tocopherol and its related derivatives by high-performance liquid chromatography using a rapid scanning spectrophotometer 605(1992)49

V**Vacancy peak method**

Study of protein-drug binding using capillary zone electrophoresis 608(1992)257

Vacuum chromatography

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Van Deemter plots

Influence of linear velocity and multigradient programming in supercritical fluid chromatography 629(1993)345

Vapour pressure

Gas chromatographic determination of vapour pressures of pheromone-like acetates 626(1992)215

Vapour pressure isotope effect

Unusual deuterium isotope effect on the retention of formamides in gas-liquid chromatography 641(1993)194

Vegetable oils

Correlation of reversed-phase high-performance liquid chromatography and gas-liquid chromatography for fatty acid compositions of some vegetable oils 629(1993)237

Vehicle emissions

Improved gas chromatography procedure for speciated hydrocarbon measurements of vehicle emissions 639(1993)239

Assessment of ambient volatile hydrocarbons from tobacco smoke and from vehicle emissions 643(1993)71

Vesicle chromatography

Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71

Viscosity, intrinsic

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Viscosity detector

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Visualization agents

Noise and detection limits of indirect absorption detection in capillary zone electrophoresis 607(1992)119

Void volume

Rapid breakthrough measurement of void volume for field-flow fractionation channels 627(1992)23

Voltage gradient

Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115

Prediction of current-voltage dependence and electrochemical calibration for capillary zone electrophoresis 625(1992)323

Voltage programming

Voltage programming in capillary zone electrophoresis 632(1993)149

Volume overloading

Analytic solution for volume-overloaded gradient elution chromatography 605(1992)151

W

Warfare agents

Identification of degradation products of some chemical warfare agents by capillary electrophoresis-ionspray mass spectrometry 634(1993)113

Washing, capillaries

Capillary electrophoresis washing technique 608(1992)159

Waste incinerator emissions

Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91

Waste water

Evaluation of ion-exchange chromatography for nitrate determination in wastewaters 644(1993)341

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis-mass spectrometry and tandem mass spectrometry 647(1993)219

Water analysis

New approach to the analysis of low levels of anions in water 602(1992)79

Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques 607(1992)319

Solid-phase sample preparation of natural waters with reversed-phase disks 629(1993)41

Determination of phenylurea pesticides in water by derivatization with heptafluorobutyric anhydride and gas chromatography-mass spectrometry 634(1993)87

Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352

Determination of cadmium and lead at $\mu\text{g/l}$ levels in aqueous matrices by chelation ion chromatography 640(1993)207

Comparison of the determination of anions in dissolved organic carbon-loaded water samples by ion chromatography and photometric methods 640(1993)299

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317

Highly selective ion chromatographic determination of ammonium ions in waters with a suppressor as postcolumn reactor 640(1993)351

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Capillary ion electrophoresis, an environmental method for the determination of anions in water 640(1993)403

Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135

Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163

Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175

Pollutants in drinking water and waste water 643(1993)145

Determination of alkylbenzenesulphonates in environmental water by anion-exchange chromatography 643(1993)169

Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia 643(1993)189

Solid-phase extraction followed by high-performance liquid chromatographic analysis for monitoring herbicides in drinking water 643(1993)203

Determination of resin acids by gas chromatography and high-performance liquid chromatography in paper mill effluent, river waters and sediments from the upper Derwent Estuary, Tasmania 643(1993)209

Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227

Efficient screening method for determining base/neutral and acidic semi-volatile organic priority pollutants in sediments 643(1993)341

Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307

Ultratrace anion analysis of high-purity water. A column comparison 644(1993)333

On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Gas chromatographic–mass spectrometric determination of halogenated acetic acids in water after direct derivatization 644(1993)375

Determination of isocyanuric acid and its chlorinated derivatives in swimming pool waters by ion chromatography 644(1993)400

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis–thermospray tandem mass spectrometry 647(1993)329

Wave theory

Non-linear waves in chromatography. I. Waves, shocks, and shapes (Review) 629(1993)97

Weight composition

High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19

Wheat

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

Wheat flour

High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83

Whitening powders

Determination of ascorbyl dipalmitate in cosmetic whitening powders by liquid chromatography 645(1993)362

Window evolving factor analysis

Assessment of peak homogeneity in liquid chromatography using multivariate chemometric techniques 641(1993)1

Wine

Post-column derivatization of carbohydrates with ethanolamine–boric acid prior to their detection by high-performance liquid chromatography 607(1992)191

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Determination of glycerol in wines by high-performance liquid chromatography: comparison with enzymatic method 623(1992)43

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Wool

Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

Z

Zirconia

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129

High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143

Zone broadening

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Zone fronts

Observation of flow profiles in electroosmosis in a rectangular capillary 632(1993)201

Zone migration

Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1

Zwitterionic compounds

Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73

COMPOUND INDEX

VOLUMES 601–650

A

AAL phytotoxins

Isolation and determination of AAL phytotoxins from corn cultures of the fungus *Alternaria alternata* f. sp. *lycopersici* 641(1993)95

Abscisic acid

Characterization of abscisic acid and metabolites by combined liquid chromatography–mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Acebutolol

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography–mass spectrometry 632(1993)215

Acenaphthaleno[1,2-*e*]pyrene

High-performance liquid chromatographic study of acenaphthaleno[1,2-*e*]pyrene, phenanthro[9,10-*e*]pyrene and their dihydro derivatives 606(1992)251

Acenaphthenes

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography–mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Acenocoumarol

Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α_1 -acid glycoprotein chiral stationary phase 644(1993)315

Acephate

Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300

Acetaldehyde

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

***p*-Acetamidobenzoylglutamate**

Reversed-phase high-performance liquid chromatographic method for the quantitation of endogenous folate catabolites in rat urine 614(1993)59

7-Acetamidonitrazepam

Simultaneous determination of nitrazepam and its metabolites in urine by micellar electrokinetic capillary chromatography 621(1993)249

Acetaminophen

see Paracetamol

Acetates

Matrix elimination in ion chromatography by “heart-cut” column-switching techniques 602(1992)155

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Gas chromatographic determination of vapour pressures of pheromone-like acetates 626(1992)215

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Acetic acid

Determination of trace anions in concentrated acids by means of a moderate-capacity anion-exchange column 602(1992)89

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

Acetic acids, halogenated

Gas chromatographic–mass spectrometric determination of halogenated acetic acids in water after direct derivatization 644(1993)375

Acetogenins

Use of liquid chromatography–thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147

Acetone

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Acetonitrile

Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23

Acetophenones

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Determination of chlorinated benzaldehydes and acetophenones in pulp bleaching effluents by gas chromatography 648(1993)289

N-Acetylamino acids

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

2-Acetylaminofluorene

C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen–DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245

Acetylcholine

Improved method for the routine analysis of acetylcholine release *in vivo*: quantitation in the presence and absence of esterase inhibitor 622(1993)125

Acetylcholine esterase inhibitors

Improved method for the routine analysis of acetylcholine release *in vivo*: quantitation in the presence and absence of esterase inhibitor 622(1993)125

N'-3'-(Acetyl-4',5'-dihydro-2'-furyl)-N-(6-methoxy-8-quinoliny)-1,4-pentanediamine

Simultaneous determination of a new antimalarial agent, CDRI compound 80/53, and its metabolite primaquine in serum by high-performance liquid chromatography 616(1993)155

Acetylenic fatty acids

Gas chromatography–mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

N-Acetylgalactosamine

Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43

N-Acetylglucosamine

Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43

Separation of sugars by ion-exclusion chromatography on a cation-exchange resin 638(1993)29

N-Acetylmannosamine

Separation of sugars by ion-exclusion chromatography on a cation-exchange resin 638(1993)29

N-Acetylmethionine

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

N-Acetylneuraminic acid

Determination of N-acetylneuraminic acid and N-glycolylneuraminic acid in glycoproteins by high-performance liquid chromatography without derivatization 612(1993)145

Determination of free N-acetylneuraminic acid in human body fluids by high-performance liquid chromatography with fluorimetric detection 620(1993)25

Acetylpolyamines

Simple high-performance liquid chromatographic assay for polyamines and their monoacetyl derivatives 614(1993)153

N-Acetyl-DL-tryptophan

Determination of stabilizers in human serum albumin preparations 638(1993)108

α₁-Acid glycoprotein

Fractionation of the genetic variants of human α₁-acid glycoprotein in the native form by chromatography on an immobilized copper(II) affinity adsorbent. Heterogeneity of the separate variants by isoelectrofocusing and by concanavalin A affinity chromatography 615(1993)47

Structural characterization of glycoprotein digests by microcolumn liquid chromatography–ionspray tandem mass spectrometry 632(1993)45

Acidic compounds

Evaluation of graphitized carbon black as a selective adsorbent for extracting acidic organic compounds from water 642(1993)163

Acids

see also Carboxylic acids

Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenopfen and ibuprofen 635(1993)291

Acridine orange

High-performance liquid chromatographic determination of acridine orange in nucleic acids isolated from dye-treated *Himantormia lugubris* thalli 607(1992)245

Acrylamide

Determination of acrylamide in rat serum and sciatic nerve by gas chromatography-electron-capture detection 619(1993)223

Acrylamido monomers

Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333

Acrylamido monomers, bifunctional

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

Acryloylmorpholine

Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333

Acyclovir

Determination of acyclovir by ultrafiltration and high-performance liquid chromatography 619(1993)342

Acylcarnitines

Quantification of carnitine and specific acylcarnitines by high-performance liquid chromatography: application to normal human urine and urine from patients with methylmalonic aciduria, isovaleric acidemia or medium-chain acyl-CoA dehydrogenase deficiency 613(1993)203

Acyl-coenzyme A

Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251

Adamantanamine

Direct determination of adamantanamine in plasma and urine with automated solid phase derivatization 619(1993)93

Adenine

Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191

Adenosine

Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191

Adenosine 5'-diphosphate

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)-adenosine diphosphate nitrilotriacetate system 606(1992)147

Adenosine 3',5'-monophosphate, cyclic

Basal and stimulated cyclic adenosine 3',5'-monophosphate production in rat adenopituitary homogenates: direct determination by high-performance liquid chromatography 619(1993)116

Adenosine monophosphates

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49

Adenosine A₁ receptor ligands

High-performance liquid chromatography of the adenosine A₁ agonist N⁶-cyclopentyladenosine and the A₁ antagonist 8-cyclopentyltheophylline and its application in a pharmacokinetic study in rats 620(1993)113

S-Adenosyl-L-methionine

Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191

Adenylate kinase

Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13

S-Adenylhomocysteine

Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191

Aditoprim

Determination of aditoprim and its oxidative metabolites in plasma and microsomal incubation mixtures by high-performance liquid chromatography 612(1993)115

Adrenaline

see Epinephrine

Adrenocorticotropic hormone

Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311

Aflatoxins

Automated sample clean-up with solid-phase extraction for the determination of aflatoxins in urine by liquid chromatography 616(1993)235

Determination of aflatoxins in food products by chromatography (Review) 624(1992)341

Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229

Axial illumination of fused-silica capillaries. Investigation of fluorescence and refractive index detection 631(1993)133

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485

Agarose

Comparison of properties of agarose for electrophoresis of DNA (Review) 618(1993)79

Agarose, low melting point sol

Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol 638(1993)283

Aglucones

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Aglycones

Identification and determination of the flavonoids from *Ginkgo biloba* by high-performance liquid chromatography 605(1992)41

Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221

High-performance liquid chromatography of honey flavonoids 634(1993)41

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic-mass spectrometric data 634(1993)350

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Agmatine

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

AL03152

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

AL03363

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Alanine

Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis-electrochemistry 608(1992)189

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277

Albendazole

Determination of albendazole-2-aminosulfone in bovine milk using high-performance liquid chromatography with fluorometric detection 620(1993)129

Albendazole-2-aminosulphone

Determination of albendazole-2-aminosulfone in bovine milk using high-performance liquid chromatography with fluorometric detection 620(1993)129

Albumin

Multiple ligand applications in high-performance immunoaffinity chromatography 603(1992)273

Study of protein-drug binding using capillary zone electrophoresis 608(1992)257

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

Novel affinity separations based on perfluorocarbon emulsions. Development of a perfluorocarbon emulsion reactor for continuous affinity separations and its application in the purification of human serum albumin from blood plasma 629(1993)201

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9

Determination of stabilizers in human serum albumin preparations 638(1993)108

Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255

Chromatographic profiles of cyanogen bromide fragments of unreduced human serum albumin on immobilized Cibacron Blue F3G-A 639(1993)341

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Alclofenac

Determination of alclofenac in equine plasma and urine by high-performance liquid chromatography 621(1993)209

Alcohols

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Gas chromatographic whole-cell fatty acid analysis as an aid for the identification of mixed mycobacterial cultures 617(1993)299

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

High-performance chiral displacement chromatographic separations in the normal-phase mode. I. Retention and adsorption studies of potential displacers developed for the Pirkle-type naphthylalanine silica stationary phase 641(1993)31

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141

Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Alcohols, allylic

Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288

Aldehydes

Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Aldicarb

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Alditol acetates, methylated

Capillary gas chromatography of partially methylated alditol acetates on a high-polarity, cross-linked, fused-silica BPX70 column 637(1993)100

Alditols

High-performance liquid chromatography of oligosaccharide alditols and glycopeptides on a graphitized carbon column 609(1992)125

Separation of neutral oligosaccharide alditols from human meconium using high-pH anion-exchange chromatography 622(1993)137

Use of a porous graphitised carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317

Aldolase

Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a "concerted cluster" model of multivalent affinity 627(1992)145

Aldonic acids

Separation of D-galactonic and D-gluconic acids by capillary zone electrophoresis 644(1993)412

Aldrin

Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341

Alendronate

Application of capillary electrophoresis to pharmaceutical analysis. Determination of alendronate in dosage forms 626(1992)245

Aliphatic amines

Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419

Aliphatic hydrocarbons

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Alizarin

Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423

Alkali metals

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249

Optimization of detection sensitivity in the analysis of inorganic cations by capillary ion electrophoresis using indirect photometric detection 608(1992)395

Indirect fluorimetric detection of alkali and alkaline earth metal ions in capillary zone electrophoresis with cerium(III) as carrier electrolyte 626(1992)259

Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35

Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41

Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57

Novel weak acid cation-exchange column 640(1993)65

Separation of metal ions by capillary electrophoresis 640(1993)425

Alkaline earth metals

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Optimization of detection sensitivity in the analysis of inorganic cations by capillary ion electrophoresis using indirect photometric detection 608(1992)395

Indirect fluorimetric detection of alkali and alkaline earth metal ions in capillary zone electrophoresis with cerium(III) as carrier electrolyte 626(1992)259

Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35

Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41

Polymer-coated cation exchangers in high-performance ion chromatography: preparation and application 640(1993)57

Novel weak acid cation-exchange column 640(1993)65

Separation of metal ions by capillary electrophoresis 640(1993)425

Alkaline phosphatase

Determination of alkaline phosphatase aggregation by size exclusion high-performance liquid chromatography with low-angle laser light scattering detection 606(1992)264

Enhanced sensitivity of immunoblotting with peroxidase-conjugated antibodies using an adsorbed substrate method 613(1993)281

Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235

Alkaloids

Chiral high-performance liquid chromatographic separations of vinca alkaloid analogues on α_1 -acid glycoprotein and human serum albumin columns 609(1992)163

Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375

Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Determination of phenylethylamines in hallucinogenic cactus species by high-performance liquid chromatography with photodiode-array detection 623(1992)381

Chromatography of tea constituents (Review) 624(1992)293

Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223

Detection of alkaloids in foods with a multi-detector high-performance liquid chromatographic system 632(1993)69

Rapid and complete chiral chromatographic separation of racemic quaternary tropane alkaloids. Complementary use of a cellulose-based chiral stationary phase in reversed-phase and normal-phase modes — a mechanistic study 634(1993)205

Determination of quaternary alkaloids from *Phellodendri Cortex* by capillary electrophoresis 634(1993)329

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Evaluation of reversed-phase columns for the analysis of very basic compounds by high-performance liquid chromatography. Application to the determination of the tobacco alkaloids 636(1993)213

Determination of ephedrine and pseudoephedrine in Chinese herbal preparations by capillary electrophoresis 637(1993)219

Analytical studies of *dl*-stylopine in *Chelidonium majus* L. using high-performance liquid chromatography 641(1993)180

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 644(1993)43

Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193

Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366

Alkanals

Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141

Alkanes

Response characteristics and operating limits of thermal conductivity detectors at reduced pressure in capillary gas chromatography 604(1992)233

Recovery of diesel fuel from clays by supercritical fluid extraction-gas chromatography 606(1992)221

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377

Pair-wise interactions by gas chromatography. I. Interaction free enthalpies of solutes with non-associated primary alcohol groups 609(1992)229

Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321

Fast evaluation of the polarity of gas chromatographic columns using the difference in apparent carbon number of linear alkanes and alcohols with the same retention 623(1992)289

Model for retention and efficiency in open-tubular supercritical fluid chromatography 625(1992)299

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography-mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297

Thermodynamic study of polystyrene-*n*-alkane systems by inverse gas chromatography 641(1993)301

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141

Alkanoic acids

see Carboxylic acids

Alkanolamines

Ion chromatography of alkylamines and alkanolamines using conductivity detection 626(1992)165

Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297

Alkanol polyethylene glycol ether

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis–mass spectrometry and tandem mass spectrometry 647(1993)219

Alkanols

Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179

Enantiomer separations of secondary alkanols with little asymmetry by high-performance liquid chromatography on chiral columns 629(1993)385

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

2-Alkanones

Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141

Alkenes

Cyclodextrin stationary phases for the gas–solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography–mass spectrometry 641(1993)347

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography–mass spectrometry 643(1993)55

S-Alk(en)yl-L-cysteine sulphoxides

Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulphoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(*trans*-1-propenyl)-L-cysteine 625(1992)183

O-Alkoxy carbonylalkyl esters

Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289

1-(Alkyl)alkylbenzenes

Dispersion and selectivity indices of *n*-alkyl- and 1-(alkyl)alkylbenzenes 623(1992)178

Alkylamines

Ion chromatography of alkylamines and alkanolamines using conductivity detection 626(1992)165

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

n-Alkylammonium ions

Ion-interaction chromatography: a study of the distribution of *n*-alkylammonium ions on an ODS-2 column 602(1992)3

4-Alkylanilines

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Alkylaromatic sulphonates

Analysis of alkylaromatic sulphonates by high-performance capillary electrophoresis 608(1992)375

Alkylbenzenes

Identification of C₂–C₄ alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Molecular analysis of sulphur-rich brown coals by flash pyrolysis–gas chromatography–mass spectrometry. The Type III-S kerogen 607(1992)361

Dispersion and selectivity indices of *n*-alkyl- and 1-(alkyl)alkylbenzenes 623(1992)178

Determination of C₆–C₁₀ aromatic hydrocarbons in water by purge-and-trap capillary gas chromatography 628(1993)81

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography–mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

Effects of molecular structure on the $\log k'_w$ index and linear S – $\log k'_w$ correlation in reversed-phase high-performance liquid chromatography 633(1993)31

Alkylbenzenesulphonates

Determination of alkylbenzenesulphonates in environmental water by anion-exchange chromatography 643(1993)169

Reversed-phase high-performance liquid chromatographic determination of linear alkylbenzene sulphonates, nonylphenol polyethoxylates and their carboxylic biotransformation products 644(1993)59

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis-mass spectrometry and tandem mass spectrometry 647(1993)219

Alkyl benzoates

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Alkylcyclohexanes

Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377

Alkylglycosides

Study of amphiphilic behaviour of alkylglycoside surfactants using reversed-phase liquid chromatography 623(1992)277

Alkyl halides

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Alkyl lysophospholipids

Gas chromatographic determination of alkyl lysophospholipids after solid-phase extraction from cell culture media 612(1993)21

Alkyl naphthalenes

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Alkyl naphthyl urethanes

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Alkyloxiranes

2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287

Alkylphenols

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Alkylphosphonic acids

Determination of alkylphosphonic acids by capillary zone electrophoresis using indirect UV detection 630(1993)371

Alkylpyrroles

Analysis of alkylpyrrole autoxidation products by high-performance liquid chromatography with thermospray mass spectrometry and UV photodiode-array detection 628(1993)37

Alkyl sulphonates

Role of capillary electrophoresis in specialty chemical research 636(1993)153

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

Alkyltin compounds

Alkyltin speciation in sea water with on-line hydride conversion and gas chromatography-atomic emission detection 644(1993)153

Alkynes

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Allantoin

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

Measurement of allantoin in urine and plasma by high-performance liquid chromatography with pre-column derivatization 617(1993)241

Allergens

Hydrophobic interaction chromatography for isolation and purification of *Equ.c1*, the horse major allergen 621(1993)23

Almokalant

Direct chiral separation of almokalant on Chiralcel OD and Chiralpak AD for liquid chromatographic assay of biological samples 631(1993)191

Aloinosides

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

Aloins

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

Alpidem

High-performance liquid chromatographic assay with diode-array detection for toxicological screening of zopiclone, zolpidem, suriclone and alpidem in human plasma 616(1993)95

Simultaneous screening and quantitation of alpidem, zolpidem, buspirone and benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection after solid-phase extraction 622(1993)197

Alprenolol

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Altersolanols

Simultaneous high-performance liquid chromatographic determination of altersolanol A, B, C, D, E and F 630(1993)418

Aluminium

High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone chelates 633(1993)129

Speciation of aluminum using capillary zone electrophoresis with indirect UV detection 635(1993)307

Chromatographic studies of corrosion sites in metallic materials 640(1993)345

Amfenac sodium

Simultaneous determination of amfenac sodium and its metabolite (7-benzoyl-2-oxindole) in human plasma by high-performance liquid chromatography 616(1993)67

Amides

Chromatographic isolation of insecticidal amides from *Piper guineense* root 607(1992)105

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101

Amidophosphoribosyltransferase

Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345

Amidopyrine

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Amine oxidase, semicarbazide-sensitive

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

Amines

see also Catecholamines

Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 617(1993)11

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

Ion chromatography of alkylamines and alkanolamines using conductivity detection 626(1992)165

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Gas chromatographic analysis of alkanolamine solutions using capillary and packed columns 629(1993)297

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Immobilized polyethyleneglycol-based stationary phase for the analysis of amines and organic acids by capillary gas chromatography 637(1993)96

Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225

Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79

The role played by ion chromatography in the assessment of amines for two-phase erosion corrosion control in nuclear electric's steam-water circuits 640(1993)303

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Gas chromatographic-mass spectrometric determination of lower aliphatic tertiary amines in environmental samples 642(1993)395

Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35

Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202

Determination of furan-based amines in reaction mixtures by gas chromatography 644(1993)383

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Some aspects of the enantio-recognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233

Amines, aliphatic

Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191

Amines, heterocyclic

Chromatographic methods for the analysis of heterocyclic amine food mutagens/carcinogens (Review) 624(1992)253

Amino acid amides

Volatile ion-pairing agents for liquid chromatographic-thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

Amino acid amides, benzylisoindole derivatives

Separation of benzylisoindole derivatives of amino acid and amino acid amide enantiomers on a β -cyclodextrin-bonded phase 603(1992)151

Amino acids

Packed column subcritical fluid chromatography of underivatized amino acids 605(1992)95

Analytical and micro-preparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Determination of the unusual amino acid hypusine at the lower picomole level by derivatization with 4-dimethylaminoazobenzene-4'-sulphonyl chloride and reversed-phase high-performance or medium-pressure liquid chromatography 606(1992)43

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

Theoretical and experimental aspects of indirect detection in capillary electrophoresis 608(1992)97

Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis-electrochemistry 608(1992)189

High-performance liquid chromatographic determination of amino acids in protein hydrolysates and in plasma using automated pre-column derivatization with *o*-phthalaldehyde/2-mercaptoethanol 613(1993)35

Analysis of physiological amino acids using dansyl derivatization and reversed-phase liquid chromatography 613(1993)137

Quantification of physiological amino acids by gradient ion-exchange high-performance liquid chromatography 613(1993)223

Gas chromatographic characterization of free D-amino acids in the blood serum of patients with renal disorders and of healthy volunteers 614(1993)7

Simultaneous measurement of monoamines, metabolites and amino acids in brain tissue and microdialysis perfusates 614(1993)213

Evaluation of liquid chromatographic analysis of nutritionally important amino acids in food and physiological samples 615(1993)1

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Improved crown ether-based chiral stationary phase 625(1992)101

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Use of chiral monohalo-*s*-triazine reagents for the liquid chromatographic resolution of DL-amino acids 627(1992)97

Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4–10 628(1993)283

Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11

2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287

Series-coupled capillary columns for the separation of N,(O)-trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281

Simultaneous optimization of pH and micelle concentration in micellar liquid chromatography 636(1993)203

Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29

Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225

Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255

Application of non-size-related separation effects to the purification of biologically active substances with a size-exclusion gel 639(1993)17

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Enantiomeric separation of fluorescent, 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate, tagged amino acids 641(1993)257

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18–36] analogues 646(1993)53

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107

Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175

Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213

Analysis and configuration assignments of the amino acids in a pyoverdine-type siderophore by reversed-phase high-performance liquid chromatography 646(1993)335

Volatile ion-pairing agents for liquid chromatographic–thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a “bio-engineered” variant by high-performance liquid chromatography–frit fast atom bombardment mass spectrometry 647(1993)301

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Amino acids, acetylated

Separation of acetylated amino acids 640(1993)379

Amino acids, benz[*f*]isoindole derivatives

Separation of benz[*f*]isoindole derivatives of amino acid and amino acid amide enantiomers on a β -cyclodextrin-bonded phase 603(1992)151

Amino acids, *p*-bromophenylcarbamyl

Optimization of naphthylethylurea multiple-bonded chiral stationary phases for optical resolution of enantiomeric amino acid derivatives 625(1992)353

Amino acids, *tert*-butyldimethylsilyl derivatives

Determination of 22 protein amino acids as N(O)-*tert*-butyldimethylsilyl derivatives by gas chromatography 638(1993)97

Amino acids, dabsyl derivatives

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Amino acids, DNB derivatives

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Amino acids, DNP derivatives

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Amino acids, Dns derivatives

Systematic study on the resolution of derivatized amino acids enantiomers on different cyclodextrin-bonded stationary phases 603(1992)83

Improvement of peroxyoxalate chemiluminescence detection in liquid chromatography with gradient elution and a long reaction time 606(1992)129

Chiral separations by capillary electrophoresis using cyclodextrin-containing gels 608(1992)421

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47

Peroxyoxalate chemiluminescence detection in capillary electrophoresis 634(1993)309

Amino acids, N-ethoxycarbonyl ethyl esters

Characterization of N-ethoxycarbonyl ethyl esters of amino acids by mass spectrometry 635(1993)271

Amino acids, fluorinated

Gas chromatographic separation of diastereoisomeric and enantiomeric forms of some fluorinated amino acids on glass capillary columns 639(1993)273

Amino acids, FMOC-L-prolinyl derivatives

Novel polymeric reagent for synthesizing 9-fluorenylmethoxycarbonyl L-prolinyl derivatives for chiral high-performance liquid chromatography of amino acids 603(1992)279

Amino acids, N(O,S)-isobutyloxycarbonyl *tert*-butyldimethylsilyl derivatives

Capillary gas chromatography of protein amino acids as N(O,S)-isobutyloxycarbonyl *tert*-butyldimethylsilyl derivatives in aqueous samples 605(1992)241

Amino acids, isopropyl esters

Investigation of the effect of acylation on the enantiomeric separation of amino acid isopropyl esters by gas chromatography 626(1992)231

Amino acids, N-substituted

Separation of enantiomers using α -chymotrypsin-silica as a chiral stationary phase 604(1992)185

Amino acids, OPA derivatives

Rapid routine determination of amino acids in plasma by high-performance liquid chromatography with a 2–3 μ m Spherisorb ODS II column 620(1993)143

Automated isotachophoretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155

Amino acids, pentafluoropropionyl alkyl esters

Separation and identification of free amino acid enantiomers in peat by capillary gas chromatography 628(1993)269

Amino acids, PTC derivatives

Systematic approach to the development of plasma amino acid analysis by high-performance liquid chromatography with ultraviolet detection with precolumn derivatization using phenyl isothiocyanate 621(1993)15

High-performance liquid chromatography of tryptophan and other amino acids in hydrochloric acid hydrolysates 632(1993)57

Amino acids, PTH derivatives

Optimization of phenylthiohydantoinamino acid separation by micellar electrokinetic capillary chromatography 638(1993)327

Amino acids, secondary

Micellar electrokinetic chromatography of hydroxyproline and other secondary amino acids in biological samples with laser-induced fluorescence detection 622(1993)269

Efficient enantioselective separation and determination of trace impurities in secondary amino acids (*i.e.*, imino acids) 623(1992)33

Amino acids, tetramethylrhodamine thiocarbamyl derivatives

Low-cost laser-induced fluorescence detector for micellar capillary zone electrophoresis. Detection at the zeptomol level of tetramethylrhodamine thiocarbamyl amino acid derivatives 608(1992)117

Amino alcohols

N-Arylcarbamoyl derivatives of amino acids as chiral stationary phases for optical resolution by high-performance liquid chromatography 631(1993)165

Enantiomeric separation of amino alcohols on dinitrobenzoyl-diaminocyclohexane chiral stationary phases 639(1993)193

***p*-Aminobenzoylglutamate**

Reversed-phase high-performance liquid chromatographic method for the quantitation of endogenous folate catabolites in rat urine 614(1993)59

Aminocarboxylatocobalt(III) complexes

Salting-out thin-layer chromatography of transition metal complexes. II. Mixed aminocarboxylatocobalt(III) complexes on a polyacrylonitrile sorbent 626(1992)305

Amino compounds

Enantioseparation of amino compounds by derivatization with *o*-phthalaldehyde and D-3-mercapto-2-methylpropionic acid 623(1992)237

Amino-containing compounds

Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225

3'-Amino-3'-deoxythymidine

Determination of 3'-amino-3'-deoxythymidine, a cytotoxic metabolite of 3'-azido-3'-deoxythymidine, in human plasma by ion-pair high-performance liquid chromatography 622(1993)235

2-Amino-3,8-dimethylimidazo[4,5-*f*]quinoxaline

Quantification of the carcinogens 2-amino-3,8-dimethyl- and 2-amino-3,4,8-trimethylimidazo[4,5-*f*]quinoxaline and 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine in food using a combined assay based on gas chromatography-negative ion mass spectrometry 616(1993)211

2,2'-(2-Aminoethyl)imino]diethanol bis(butylcarbamate)

Sensitive high-performance liquid chromatographic determination of 2,2'-(2-aminoethyl)imino]diethanol bis(butylcarbamate) and its metabolites in human serum following pre-column derivatization with *o*-phthalaldehyde and stabilization of the derivatives 612(1993)263

Aminoglycosides

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

4-Amino-5-hydroxymethyl-2-methylpyrimidine

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

2-Amino-2-hydroxymethyl-1,3-propanediol

Determination of tris(hydroxymethyl)aminomethane (tromethamine) in human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)87

Aminoimidazoquinolines

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

Aminoimidazoquinoxalines

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

Aminoisobutyric acid

Solid-phase separation of ¹⁴C-labelled urea and aminoisobutyric acid for membrane transport studies 614(1993)148

2-Amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine

Quantification of the carcinogens 2-amino-3,8-dimethyl- and 2-amino-3,4,8-trimethylimidazo[4,5-*f*]quinoxaline and 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine in food using a combined assay based on gas chromatography-negative ion mass spectrometry 616(1993)211

Aminomethylphosphonic acid

Liquid chromatography and postcolumn indirect detection of glyphosate 602(1992)197

2-Amino-2-methylpropan-1-ol

The role played by ion chromatography in the assessment of amines for two-phase erosion corrosion control in nuclear electric's steam-water circuits 640(1993)303

Aminonaphthalenesulphonic acids

Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397

7-Aminonitrazepam

Simultaneous determination of nitrazepam and its metabolites in urine by micellar electrokinetic capillary chromatography 621(1993)249

L-2-Amino-3-oxalylaminopropanoic acid

Determination of the neurolethrogen β -N-oxalyl-L- α , β -diaminopropionic acid using high-performance liquid chromatography with fluorometric detection 635(1993)338

5-Aminopentan-1-ol

The role played by ion chromatography in the assessment of amines for two-phase erosion corrosion control in nuclear electric's steam-water circuits 640(1993)303

Aminophenols

Thin-layer chromatographic behaviour of substituted phenolic compounds on silica gel layers impregnated with Al(III) and Cu(II) 607(1992)163

Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208

Aminopyridoimidazoles

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

Aminopyridoindoles

Detection of heterocyclic aromatic amines in food flavours 624(1992)491

8-Aminoquinoline antimalarial drug

High-performance liquid chromatographic method for the determination of a candidate 8-aminoquinoline antimalarial drug (WR 242511) using oxidative electrochemical detection 616(1993)338

Aminosteroids

Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221

Amino sugars

Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

3-Amino-1,2,3,4-tetrahydro-2-naphthol

Thin-layer chromatography of the positional isomers of some 1,2,3,4-tetrahydro-2-naphthol and 3-amino-1,2,3,4-tetrahydro-2-naphthol derivatives 628(1993)103

Aminotetralins

Selective method for plasma quantitation of the stereoisomers of a new aminotetralin by high-performance liquid chromatography with electrochemical detection 612(1993)95

2-Amino-3,4,8-trimethylimidazo[4,5-f]quinoxaline

Quantification of the carcinogens 2-amino-3,8-dimethyl- and 2-amino-3,4,8-trimethylimidazo[4,5-f]quinoxaline and 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine in food using a combined assay based on gas chromatography-negative ion mass spectrometry 616(1993)211

Amitriptyline

Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135

Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181

Ammelide

Determination of isocyanuric acid, ammelide, ammeline and melamine in crude isocyanuric acid by ion chromatography 639(1993)338

Ammeline

Determination of isocyanuric acid, ammelide, ammeline and melamine in crude isocyanuric acid by ion chromatography 639(1993)338

Ammonia

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic-thermospray mass spectrometric applications 626(1992)81

Determination of ammonia as its benzenesulphonyldimethylaminomethylene derivative in environmental water samples by gas chromatography with flame photometric detection 633(1993)311

Evaluation of microbore and packed capillary column chromatography with an ethylvinylbenzene-divinylbenzene polymeric packing material and supercritical ammonia as the mobile phase 638(1993)75

The role played by ion chromatography in the assessment of amines for two-phase erosion corrosion control in nuclear electric's steam-water circuits 640(1993)303

Ammonium

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

- Simultaneous determination of alkali, alkaline-earth metal cations and ammonium in environmental samples by gradient ion chromatography 638(1993)35
- Simultaneous determination of the three main inorganic forms of nitrogen by ion chromatography 640(1993)161
- Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317
- Highly selective ion chromatographic determination of ammonium ions in waters with a suppressor as postcolumn reactor 640(1993)351
- Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389
- Ammonium compounds, quaternary**
Determination of quaternary ammonium compounds by capillary electrophoresis using direct and indirect UV detection 608(1992)325
- Ammonium pyrrolidinedithiocarbamate**
Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151
- Amoxicillin**
High-performance liquid chromatographic determination of amoxicillin in urine using solid-phase, ion-pair extraction and ultraviolet detection 615(1993)91
- Determination of amoxicillin in human plasma by high-performance liquid chromatography and solid phase extraction 617(1993)334
- Liquid chromatographic determination of amoxicillin preparations. Interlaboratory validation 629(1993)277
- Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephapirin by high-performance liquid chromatography–electrospray mass spectrometry 647(1993)167
- Amphetamine**
Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269
- 9-Fluoreneacetyl-tagged, solid-phase reagent for derivatization in direct plasma injection 609(1992)103
- Quantification of amphetamine in urine: solid-phase extraction, polymeric-reagent derivatization and reversed-phase high-performance liquid chromatography 614(1993)142
- Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215
- Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356
- Ampholytes**
Recycling isoelectric focusing: use of simple buffers 604(1992)73
- Electrically controlled electrofocusing of ampholytes between two zones of modified electrolyte with two different values of pH 638(1993)179
- Ampicillin**
Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephapirin by high-performance liquid chromatography–electrospray mass spectrometry 647(1993)167
- Amprolium**
Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349
- Amygdalin**
O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1
- α -Amylase**
Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch–polyacrylamide gel electrophoresis 623(1992)399
- β -Amylase**
Thiophilic interaction chromatography of sweet potato β -amylase 604(1992)103
- Amylopectin**
Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129
- Amylose**
Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129
- Anabasine**
Gas chromatographic–mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49
- Anabolic compounds**
Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389

- Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403
- Anatabine**
Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49
- Angiotensin**
Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography-mass spectrometry 647(1993)31
- Angiotensin-converting enzyme**
Direct injection assay of angiotensin-converting enzyme by high-performance liquid chromatography using a shielded hydrophobic phase column 613(1993)145
- Angiotensinase A**
Angiotensinase A (aminopeptidase A): properties of chromatographically purified isoforms from human kidney 625(1992)73
- Angiotensin II**
Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3
- Angiotensin peptides**
Simplified method for quantitation of angiotensin peptides in tissue 614(1993)19
- Anhydrochymotrypsin**
Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35
- Anilides**
Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235
- Anilines**
New chromatographic hydrophobicity index (φ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49
- Anilophos**
Gas chromatographic method for the determination of anilophos in soil 637(1993)109
- Anions**
Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33
- Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51
- New approach to the analysis of low levels of anions in water 602(1992)79
- Determination of trace anions in concentrated acids by means of a moderate-capacity anion-exchange column 602(1992)89
- Dual-column techniques for the simultaneous analysis of anions and cations 602(1992)127
- Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179
- Regulated methods for ion analysis 602(1992)205
- Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219
- Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241
- Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385
- Optimization of indirect photometric detection of anions in high-performance capillary electrophoresis 625(1992)341
- Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339
- Bidirectional isotachopheresis. I. Verification of bidirectional isotachopheresis and simultaneous determination of anionic and cationic components 633(1993)251
- Computer-assisted predictions of resolution, peak height and retention time for the separation of inorganic anions by ion chromatography 640(1993)3
- Determination of inorganic and organic anions in one run by ion chromatography with column switching 640(1993)27
- Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151
- Automatic simultaneous determination of anions and cations in atmospheric aerosols by ion chromatography 640(1993)217
- Ion chromatographic investigations of leachates from a hazardous-waste landfill 640(1993)227
- Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251
- Determination of anions in an epoxy curing agent by ion chromatography 640(1993)355
- Capillary ion electrophoresis, an environmental method for the determination of anions in water 640(1993)403

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

Optimization of injection technique in capillary ion electrophoresis for the determination of trace level anions in environmental samples 640(1993)481

Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181

Ultratrace anion analysis of high-purity water. A column comparison 644(1993)333

Anions, inorganic
see Inorganic anions

Anthocyanins

Chromatographic analysis of anthocyanins (Review)
624(1992)221

Anthracene

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

Vinyl modification of fused-silica surfaces in polysiloxane-coated 10–50 μm I.D. capillaries for open-tubular liquid chromatography 634(1993)31

Quantitative comparisons using gas chromatography-mass spectrometry and dual-isotope techniques for detection of isotope and impurity interferences 639(1993)215

Anthracene-9-carboxylic acid

Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333

9-Anthracenones

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

Anthracyclines

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Anthraquinones

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423

Quantitative comparisons using gas chromatography-mass spectrometry and dual-isotope techniques for detection of isotope and impurity interferences 639(1993)215

Anthraquinonesulphonates

Analysis of anthraquinone sulphonates. Comparison of capillary electrophoresis with high-performance liquid chromatography 629(1993)379

Anthrone-C-glucosyls

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

9-Anthryldiazomethane

Column-switching high-performance liquid chromatographic method for the determination of SK&F 106203 in human plasma after fluorescence derivatization with 9-anthryldiazomethane 631(1993)233

Anti-AIDS drugs

Separation of dideoxyribonucleosides in trace amounts by automated liquid chromatography and capillary electrophoresis 609(1992)147

Antibacterials

Determination of a new antibacterial agent (Ro 23-9424) by multidimensional high-performance liquid chromatography with ultraviolet detection and direct plasma injection 620(1993)211

Antibiotics

Isolation, trace enrichment and liquid chromatographic analysis of diacetylphloroglucinol in culture and soil samples using UV and amperometric detection 606(1992)171

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Determination of erythromycin A by liquid chromatography and electrochemical detection, with application to salmon tissue 619(1993)63

Rapid determination of tetracycline antibiotics in serum by reversed-phase high-performance liquid chromatography with fluorescence detection 619(1993)319

Determination of a novel β -lactam antibiotic (E-1100) in rat plasma by high-performance liquid chromatography 620(1993)153

Determination of tetracycline antibiotics by reversed-phase high-performance liquid chromatography with fluorescence detection 623(1992)153

Chromatographic analysis of antibiotic materials in food (Review) 624(1992)153

Chromatographic methods of analysis for penicillins in food-animal tissues and their significance in regulatory programs for residue reduction and avoidance (Review) 624(1992)171

Chromatographic methods for tetracycline analysis in foods (Review) 624(1992)195

Separation of tetracycline and its degradation products by capillary zone electrophoresis 627(1992)281

Determination of oxytetracycline in marine shellfish (*Crassostrea gigas*, *Ruditapes philippinarum* and *Scrobicularia plana*) by high-performance liquid chromatography using solid-phase extraction 627(1992)287

Column liquid chromatography of cefadroxil on poly(styrene-divinylbenzene) 628(1993)49

Separation of polymyxins by micellar electrokinetic capillary chromatography 628(1993)309

High-performance liquid chromatography-thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267

Liquid chromatographic determination of amoxicillin preparations. Interlaboratory validation 629(1993)277

Quantitative analysis of tylosin by column liquid chromatography 630(1993)159

High-performance liquid chromatographic separation and electrochemical detection of penicillins 633(1993)111

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Antibodies

see also Monoclonal antibodies

Enhanced sensitivity of immunoblotting with peroxidase-conjugated antibodies using an adsorbed substrate method 613(1993)281

Characterization of each isoform of a F(ab')₂ by capillary electrophoresis 641(1993)383

Mapping of the antibody- and receptor-binding domains of granulocyte colony-stimulating factor using an optical biosensor. Comparison with enzyme-linked immunosorbent assay competition studies 646(1993)159

Antibody-cytotoxin conjugate

Capillary micellar electrokinetic, sequential multiwavelength chromatographic characterization of a chimeric monoclonal antibody-cytotoxin conjugate 635(1993)313

Antidepressants

Dual ultraviolet wavelength high-performance liquid chromatographic method for the forensic or clinical analysis of seventeen antidepressants and some selected metabolites 621(1993)215

Antiepileptics

Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335

Antifilarial drugs

Determination of a new antifilarial drug, UMF-058, and mebendazole in whole blood by high-performance liquid chromatography 615(1993)303

Antihemophilia A factor

Application of a new statistical approach to optimize the immunopurification of antihemophilia A factor 612(1993)49

Antihistamines

Application of chemometrically processed chromatographic data for pharmacologically relevant classification of antihistamine drugs 633(1993)57

Anti-inflammatory drugs

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Anti-inflammatory drugs, non-steroidal

Capillary gas chromatography of acidic non-steroidal antiinflammatory drugs as *tert*.-butyldimethylsilyl derivatives 641(1993)319

Antimony

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Antipyrine

Investigation of the human metabolism of antipyrine using coupled liquid chromatography and nuclear magnetic resonance spectroscopy of urine 617(1993)324

Serum antipyrine concentrations determined by micellar electrokinetic capillary chromatography 622(1993)98

Antithrombin III

Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1

Membrane chromatography for rapid purification of recombinant antithrombin III and monoclonal antibodies from cell culture supernatant 639(1993)57

Anxiolytics

High-performance liquid chromatographic method for determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine 613(1993)105

Enantioselective determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine using high-performance liquid chromatography 613(1993)113

Apiose

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Apolipoproteins

Separation of high-density lipoproteins into apolipoprotein E-poor and apolipoprotein E-rich subfractions by fast protein liquid chromatography using a heparin affinity column 613(1993)239

Apometallothionein

Apometallothionein in rat liver 620(1993)191

Aprotinin

High-performance liquid chromatographic separation of aprotinin-like inhibitors and their determination in very small amounts 617(1993)308

1-(β -D-Arabinofuranosyl)-5-(1-propynyl)uracil

Determination of 1-(β -D-arabinofuranosyl)-5-(1-propynyl)-uracil and a metabolite, 5-propynyluracil, in plasma using ASTED (automated sequential trace enrichment of dialysates) combined, on-line, with high-performance liquid chromatography 617(1993)65

Arenes

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Argon

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Aroclor 1242

Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409

Aromatic amines

see also Amines

Thin-layer chromatography on polyacrylonitrile. V. Consideration of separation mechanisms of some aliphatic and aromatic amines 609(1992)419

Aromatic carboxylic acids

Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333

Aromatic compounds

Comparison of adsorption properties of Florisil and silica in high-performance liquid chromatography. II. Retention behaviour of bi- and trifunctional model solutes 623(1992)15

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 641(1993)347

Rapid high-performance liquid chromatographic methods that screen for aromatic compounds in environmental samples (Review) 642(1993)15

Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas-liquid chromatographic data 644(1993)95

Aromatic compounds, sulphonated

High-performance liquid chromatographic analysis of sulfonated aromatics using a β -cyclodextrin-bonded phase 635(1993)221

Aromatic hydrocarbons

see also Hydrocarbons

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Determination of C_6 - C_{10} aromatic hydrocarbons in water by purge-and-trap capillary gas chromatography 628(1993)81

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49

Validation of the aromatic ring distribution in diesel fuel refinery streams by supercritical fluid chromatography and mass spectrometry 637(1993)181

Aromatic sulphonic acids

Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269

Arsenic

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Artelinic acid

Assay of artelinic acid in serum by high-performance liquid chromatography 612(1993)331

Artemisinin

Extraction and high-performance liquid chromatographic methods for the γ -lactones parthenolide (*Chrysanthemum parthenium* Bernh.), marrubiin (*Marrubium vulgare* L.) and artemisinin (*Artemisia annua* L.) 605(1992)124

Arylphenoxypropanoic acids

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Arylpropionic acids

Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275

Direct high-performance liquid chromatographic resolution of 2-aryl- and 2-heteroarylpropionic acids on a chiral stationary phase containing the N,N'-dinitrobenzoyl derivative of (1R,2R)-diaminocyclohexane 633(1993)81

Ascorbic acid

see Vitamin C

Ascorbyl dipalmitate

Determination of ascorbyl dipalmitate in cosmetic whitening powders by liquid chromatography 645(1993)362

Asparagine

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Aspartame

Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139

Development of a specific device for densitometry of thin-layer chromatographic sheets in planar chromatography 607(1992)159

Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179

Aspartic acid

Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis-electrochemistry 608(1992)189

Series-coupled capillary columns for the separation of N,(O)-trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281

Aspartic acid β -hydroxamate

High-performance liquid chromatographic separation of metal ions using aspartic acid β -hydroxamate as a model siderophore 626(1992)277

Aspoxicillin

Determination of aspoxicillin in broncho-alveolar lavage fluid by high-performance liquid chromatography with photolysis and electrochemical detection 615(1993)180

Astaxanthin

Rapid direct resolution of the stereoisomers of all-*trans* astaxanthin on a Pirkle covalent L-leucine column 631(1993)197

Asulam

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Atenolol

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

Theoretical aspects of chiral separation in capillary electrophoresis. III.Application to β -blockers 635(1993)113

Theory of chiral separation in capillary electrophoresis 636(1993)57

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Atipamezole

Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Na,K-ATPase

Separation of membrane-embedded tryptic peptides of Na,K-ATPase by size-exclusion chromatography 646(1993)153

H⁺/K⁺ ATPase inhibitor

High-performance liquid chromatographic determination of concentrations of the reversible H⁺/K⁺ ATPase inhibitor SK&F 97574 in plasma 619(1993)172

Atrazine

Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89

Atropine

Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Auxins

Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255

Azadirachtins

Quantitation of azadirachtins in insecticidal formulations by high-performance liquid chromatography 633(1993)300

Azathioprine

High-performance liquid chromatographic determination of thiopurine metabolites of azathioprine in biological fluids 615(1993)352

Azelastine

Conalbumin-conjugated silica gel, a new chiral stationary phase for high-performance liquid chromatography 603(1992)105

3'-Azido-3'-deoxythymidine

Determination of 3'-amino-3'-deoxythymidine, a cytotoxic metabolite of 3'-azido-3'-deoxythymidine, in human plasma by ion-pair high-performance liquid chromatography 622(1993)235

Azinphos-ethyl

On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Azo dyes

Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173

B

Baclofen

Direct separation of 4-amino-3-(4-chlorophenyl)butyric acid and analogues, GABA_B ligands, using a chiral crown ether stationary phase 645(1993)95

Bactenecins

Analytical methods for differentiating minor sequence variations in related peptides 646(1993)175

Baicalin

Determination of baicalin and puerarin in traditional Chinese medicinal preparations by high-performance liquid chromatography 631(1993)241

Barbiturates

New chromatographic hydrophobicity index (φ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49

Barium

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Basic compounds

Evaluation of reversed-phase columns for the analysis of very basic compounds by high-performance liquid chromatography. Application to the determination of the tobacco alkaloids 636(1993)213

Basic drugs

Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265

Reproducible and high-speed separation of basic drugs by capillary zone electrophoresis 612(1993)172

Comparison of high-performance liquid chromatographic methods for the analysis of basic drugs 623(1992)207

Optimization of sample application conditions for solid-phase extraction columns 629(1993)61

BAY y 3118

Determination of BAY y 3118, a novel 4-quinolone, in biological fluids using high-performance liquid chromatography and photothermal post-column derivatization 616(1993)87

Benidipine hydrochloride

Determination of benidipine hydrochloride in human plasma by capillary column gas chromatography-negative ion chemical ionization mass spectrometry 617(1993)59

Benomyl

Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168

Determination of benomyl and its degradation products by chromatographic methods in water, wettable powder formulations, and crops (Review) 643(1993)249

Determination and confirmation of benomyl and carbendazim in water using high-performance liquid chromatography and diode array detection 645(1993)178

Bentazones

Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis–thermospray tandem mass spectrometry 647(1993)329

Benz[*c*]acridines

Chromatographic techniques used to determine benz[*c*]acridines in environmental samples (Review) 643(1993)1

Benzaldehydes

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Determination of chlorinated benzaldehydes and acetophenones in pulp bleaching effluents by gas chromatography 648(1993)289

Benzalkonium chloride

Determination of benzalkonium chloride in eye care products by high-performance liquid chromatography and solid-phase extraction or on-line column switching 625(1992)362

Salting-out solvent extraction for pre-concentration of benzalkonium chloride prior to high-performance liquid chromatography 635(1993)75

Benanthrone

Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305

Benzenes

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography–ion trap mass spectrometry 625(1992)247

Peak tracking with a neural network for spectral recognition 631(1993)145

Chromatographic determination of volatile solvents and their metabolites in urine for monitoring occupational exposure (Review) 643(1993)389

Optimization of the separation selectivity of a group of benzene and naphthalene derivatives in micellar high-performance liquid chromatography using a C₁₈ column and alcohols as modifiers in the mobile phase 646(1993)297

Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469

Benzenes, chlorinated

Determination of selected chlorinated benzenes in water by purging directly to a capillary column with whole column cryotrapping and electron-capture detection 629(1993)321

Benzenes, monosubstituted

Factor analysis and experimental design in high-performance liquid chromatography. XIII. Correspondence factor analysis of the heterogeneity of the behaviour of congeneric solutes series studied on homogeneous OV phases in gas chromatography 609(1992)261

Benzidine

Chemical reduction of FD&C Yellow No. 5 to determine combined benzidine 635(1993)160

Benzoate

Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139

Benzocaine

Simultaneous, stability-indicating capillary gas chromatographic assay for benzocaine and the two principal benzyl esters of Balsam Peru formulated in a topical ointment 623(1992)395

Benzodiazepine glucuronides

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Benzodiazepines

Molecular topology and chromatographic retention parameters for benzodiazepines 607(1992)91

Mechanism of retention of benzodiazepines in affinity, reversed-phase and adsorption high-performance liquid chromatography in view of quantitative structure-retention relationships 609(1992)69

Monitoring of benzodiazepines (clobazam, diazepam and their main active metabolites) in human plasma by column-switching high-performance liquid chromatography 617(1993)285

Simultaneous screening and quantitation of alpidem, zolpidem, buspirone and benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen–phosphorus detection after solid-phase extraction 622(1993)197

New chromatographic hydrophobicity index (φ_0) based on the slope and the intercept of the log *k'* versus organic phase concentration plot 631(1993)49

Benzoic acid

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Benzoic acid derivatives

Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403

Benzoin

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Benzo[a]pyrene

C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen-DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245

High-performance liquid chromatographic separation of purine deoxyribonucleoside monophosphate-benzo[a]pyrene adducts 623(1992)247

Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305

Benzo[e]pyrene

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Benzopyrenes

Gas chromatographic screening of organic compounds in urban aerosols. Selectivity effects in semi-polar columns 607(1992)261

Benzoquinone

C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen-DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245

Iron(III) ion-modified chromatographic silica preparations and characterization 626(1992)159

Benzothiazoles

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

Liquid chromatography-mass spectrometry for the identification of minor components in benzothiazole derivatives 647(1993)107

Benzothiophenes

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Benzoxazolinone

Isolation and identification via high-performance liquid chromatography and thin-layer chromatography of benzoxazolinone precursors from *Consolida orientalis* flowers 609(1992)402

Benzoylcegonine

Quantitation of benzoynorecgonine and other cocaine metabolites in meconium by high-performance liquid chromatography 613(1993)330

Application of mixed-mode, solid-phase extraction in environmental and clinical chemistry. Combining hydrogen-bonding, cation-exchange and Van der Waals interactions 629(1993)11

Benzoynorecgonine

Quantitation of benzoynorecgonine and other cocaine metabolites in meconium by high-performance liquid chromatography 613(1993)330

7-Benzoyl-2-oxindole

Simultaneous determination of amfenac sodium and its metabolite (7-benzoyl-2-oxindole) in human plasma by high-performance liquid chromatography 616(1993)67

Benzyl esters

Simultaneous, stability-indicating capillary gas chromatographic assay for benzocaine and the two principal benzyl esters of Balsam Peru formulated in a topical ointment 623(1992)395

N-Benzylloxycarbonylglycyl-L-proline

Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33

2-Benzyltetralones

Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133

Beraprost sodium

Separation of Beraprost sodium isomers using different cyclodextrin stationary phases 633(1993)97

Isomeric separation of Beraprost sodium using an α_1 -acid glycoprotein column 641(1993)249

Berberastine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Berberine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Determination of coptisine, berberine and palmatine in traditional Chinese medicinal preparations by capillary electrophoresis 639(1993)323

Betaxolol

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Bialaphos

Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography-ion-trap mass spectrometry 637(1993)167

Biaryls

Chiral stationary phases consisting of axially dissymmetric 2'-substituted-1,1'-binaphthyl-2-carboxylic acids bonded to silica gel for high-performance liquid chromatographic separation of enantiomers 645(1993)17

Bicyclic esters

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Bicyclic hydrocarbons

Extraction of bituminous material from fossil organic matter using liquid carbon dioxide under liquid-vapour equilibrium conditions 607(1992)377

Bidesethylchloroquine

Simultaneous determination of chloroquine and quinine in human biological fluids by high-performance liquid chromatography 613(1993)303

Bifemelane

Gas chromatographic-mass spectrometric method for the determination of bifemelane in human plasma at therapeutic doses 613(1993)150

Biflavones

Identification and determination of the flavonoids from *Ginkgo biloba* by high-performance liquid chromatography 605(1992)41

Bile acids

Simultaneous determination of mevalonate and 7 α -hydroxycholesterol in human plasma by gas chromatography-mass spectrometry as indices of cholesterol and bile acid biosynthesis 613(1993)185

Simultaneous determination of bile acids in rat bile and serum by high-performance liquid chromatography 621(1993)123

Bilirubin

Determination of plasma tocopherols by high-performance liquid chromatography with coulometric detection 620(1993)268

Biocytin synthetase

Biocytin synthetase activity in human milk as assessed by high-performance liquid chromatography 612(1993)156

Biomolecules

see also Special issue index

Biopolymers

Mean square radius of molecules and secondary instrumental broadening 648(1993)27

Biopterin

Analysis of 6R- and 6S-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249

Biosurfactants

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Biotinidase

High-recovery protein purification by high-performance gel-permeation chromatography: application to human serum biotinidase 616(1993)327

Improved high-performance liquid chromatographic determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate 617(1993)29

Biotinyl-6-aminoquinoline

Improved high-performance liquid chromatographic determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate 617(1993)29

Biphenyl

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

2,3'-Bipyridyl

Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49

N,N'-Bisacrylcysteamide

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

Bis(alkylxanthato)nickel(II) complexes

Thin-layer chromatography on silica gel of a homologous series of bis(alkylxanthato)nickel(II) complexes 628(1993)148

Bis(amidinohydrazones)

Effect of the buffer solution on the elution order and separation of bis(amidinohydrazones) by micellar electrokinetic capillary chromatography 608(1992)317

Bis(2-ethylhexyl) hydrogenphosphate

Analytical capillary isotachopheresis of bis(2-ethylhexyl) hydrogenphosphate and 2-ethylhexyl dihydrogenphosphate 639(1993)317

Bismuth

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo) resorcinol and Arsenazo-III 605(1992)63

Bisoprolol

Sensitive determination of bisoprolol enantiomers in plasma and urine by high-performance liquid chromatography using fluorescence detection, and application to preliminary study in humans 619(1993)267

2,3-Bisphosphoglycerate

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Bis-O-phytanyllycerol

Gas chromatographic determination of isoprenoid alkylglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253

Block copolymers

Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide-block-propylene oxide) 623(1992)315

 β -Blockers

Determination of ten β -blockers in urine by micellar electrokinetic capillary chromatography 632(1993)143

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287

Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231

Chiral separation of β -blockers by high-performance capillary electrophoresis based on non-immobilized cellulase as enantioselective protein 638(1993)263

Chiral stationary phases based on intact and fragmented cellobiohydrolase I immobilized on silica 648(1993)333

Boldine

Determination of boldine in plasma by high-performance liquid chromatography 612(1993)315

Borane compounds, deltahedral

Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197

Borate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. I. Separation of flavonoid-7-O-glycosides differing in their flavonoid aglycone 628(1993)153

Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. II. Separation of flavonoid-3-O-glycosides differing in their sugar moiety 628(1993)161

Boric acid

Post-column derivatization of carbohydrates with ethanalamine-boric acid prior to their detection by high-performance liquid chromatography 607(1992)191

Boron

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Brofaromine

Improved determination of brofaromine by capillary gas chromatography and by utilization of a multi-purpose injector 623(1992)191

Bromide

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

Analysis of oxyhalide disinfection by-products and other anions of interest in drinking water by ion chromatography 602(1992)65

Gas chromatography-electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Bromoacetic acid

Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177

Bromodichloromethane

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Evaluation of the liquid–liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

False results in headspace–gas chromatographic analysis of trihalomethanes in swimming pool water due to elevated headspace temperatures 648(1993)294

Bromoform

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Development of automated gas chromatographic–mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

3-Bromomethyl-7-methoxy-1,4-benzoxazin-2-one

Liquid chromatography–mass spectrometry of fatty acids including hydroxy and hydroperoxy acids as their 3-methyl-7-methoxy-1,4-benzoxazin-2-one derivatives 639(1993)165

Bromophos

On-line combination of automated micro liquid–liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

2-Bromopropenamide

Determination of acrylamide in rat serum and sciatic nerve by gas chromatography–electron-capture detection 619(1993)223

Brompheniramine

Semi-preparative high-performance liquid chromatographic resolution of brompheniramine enantiomers using β -cyclodextrin in the mobile phase 637(1993)137

Buckminsterfullerenes

see Fullerenes

Bupivacaine

Chiral separations of basic drugs and quantitation of bupivacaine enantiomers in serum by capillary electrophoresis with modified cyclodextrin buffers 608(1992)265

High-performance liquid chromatographic determination of bupivacaine in plasma samples for biopharmaceutical studies and application to seven other local anaesthetics 622(1993)284

Buprenorphine

Column-switching solid-phase trace-enrichment high-performance liquid chromatographic method for measurement of buprenorphine and norbuprenorphine in human plasma and urine by electrochemical detection 614(1993)275

Buspirone

Simultaneous screening and quantitation of alpidem, zolpidem, buspirone and benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen–phosphorus detection after solid-phase extraction 622(1993)197

Butachlor

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Determination of pesticides in river water by gas chromatography–mass spectrometry–selected-ion monitoring 643(1993)197

1,3-Butadiene

Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography–continuous-flow fast atom bombardment mass spectrometry 647(1993)91

Butalbital

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

tert.-Butanol

Gas chromatographic determination of residual levels of *tert.*-butanol from lyophilized liposomal formulations 620(1993)83

L-Buthionine (SR)-sulphoximine

High-performance liquid chromatographic determination of the *S*- and *R*-diastereoisomers of L-buthionine (*SR*)-sulfoximine in human plasma and urine 620(1993)121

Butorphanol

Liquid chromatography–mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

1,3-Butylene glycol

Simultaneous determination of ethylene glycol, propylene glycol, 1,3-butylene glycol and 2,3-butylene glycol in human serum and urine by wide-bore column gas chromatography 619(1993)251

2,3-Butylene glycol

Simultaneous determination of ethylene glycol, propylene glycol, 1,3-butylene glycol and 2,3-butylene glycol in human serum and urine by wide-bore column gas chromatography 619(1993)251

tert.-Butyl methyl ether

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

2-(4-tert.-Butylphenoxy)-7-(4-chlorophenyl)heptanoic acid

Conventional and enantioselective determination of a new blood glucose-lowering agent in biological fluids using liquid-liquid extraction and high-performance liquid chromatography 616(1993)129

Butyric acid

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

3-Butyryl-4-(2-methylphenylamino)-8-(2-hydroxyethoxy)-quinoline

High-performance liquid chromatographic determination of concentrations of the reversible H^+/K^+ ATPase inhibitor SK&F 97574 in plasma 619(1993)172

C**1069C85**

High-performance liquid chromatographic assay for the measurement of the novel microtubule inhibitor 1069C85 in biological tissues and fluids 622(1993)243

Cadaverine

High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Cadmium

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Determination of cadmium and lead at $\mu\text{g/l}$ levels in aqueous matrices by chelation ion chromatography 640(1993)207

New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455

Mobility of cadmium as influenced by soil properties, studied by soil thin-layer chromatography 643(1993)357

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Caffeine

Solventless determination of caffeine in beverages using solid-phase microextraction with fused-silica fibers 603(1992)185

Computer-controlled generation of pH gradients in capillary zone electrophoresis 605(1992)139

Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Comparison of capillary zone electrophoresis with high-performance liquid chromatography for the determination of additives in foodstuffs 636(1993)179

Calcium

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419

Calcium antagonists

Determination of benidipine hydrochloride in human plasma by capillary column gas chromatography-negative ion chemical ionization mass spectrometry 617(1993)59

Calcofluor

Size-exclusion chromatographic determination of β -glucan with postcolumn reaction detection 632(1993)105

Calmodulin

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Camphanic acid chloride

Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231

Camphor

Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255

Camptothecin

High-performance liquid chromatographic analysis of the antitumour drug camptothecin and its lactone ring-opened form in rat plasma 617(1993)111

Cannabinoids

Confirmation testing of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in urine with micellar electrokinetic capillary chromatography 608(1992)251

Gas chromatographic-mass spectrometric quantitation of urinary 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid after derivatization by direct extractive alkylation 617(1993)265

Canthaxanthin

Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235

ϵ -Caprolactam

Measurement of infinite dilution diffusion coefficients of ϵ -caprolactam in nylon 6 at elevated temperatures by inverse gas chromatography 607(1992)145

Carazolol

Determination of tranquilisers and carazolol residues in animal tissue using high-performance liquid chromatography with electrochemical detection 624(1992)471

Carbamates

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Thin-layer chromatographic behaviour of carbamate pesticides and related compounds 643(1993)321

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Gas chromatographic screening for neostigmine and physostigmine using temperature-programmed retention indices 648(1993)501

Carbamazepine

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Simultaneous determination of carbamazepine, phenytoin, phenobarbital, primidone and their principal metabolites by high-performance liquid chromatography with photodiode-array detection 616(1993)105

Validation of the analysis of carbamazepine and its 10,11-epoxide metabolite by high-performance liquid chromatography from plasma: comparison with gas chromatography and the enzyme-multiplied immunoassay technique 620(1993)169

Simple and accurate high-performance liquid chromatographic method for the measurement of three antiepileptics in therapeutic drug monitoring 622(1993)47

Carbamazepine-10,11-epoxide

Validation of the analysis of carbamazepine and its 10,11-epoxide metabolite by high-performance liquid chromatography from plasma: comparison with gas chromatography and the enzyme-multiplied immunoassay technique 620(1993)169

3-Carbamoyloxy-2-phenylpropionic acid

Simultaneous determination of felbamate and four metabolites in rat cerebrospinal fluid by high-performance liquid chromatography 622(1993)223

Carbamoylpiperidines, bis-N-substituted

Chiral separation of nipecotic acid amides 609(1992)187

Carbaryl

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Carbendazim

Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168

Determination of benomyl and its degradation products by chromatographic methods in water, wettable powder formulations, and crops (Review) 643(1993)249

Determination and confirmation of benomyl and carbendazim in water using high-performance liquid chromatography and diode array detection 645(1993)178

Carbofuran

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

High-performance liquid chromatographic analysis of carbofuran residues in tomatoes grown in hydroponics 643(1993)351

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Carbohydrates

see also Saccharides and Sugars

Post-column derivatization of carbohydrates with ethanolamine-boric acid prior to their detection by high-performance liquid chromatography 607(1992)191

Gas chromatographic retention of carbohydrate trimethylsilyl ethers. IV. Disaccharides 607(1992)221

Composition analysis of carboxymethylcellulose by high-pH anion-exchange chromatography with pulsed amperometric detection 623(1992)49

Determination of carbohydrates by hydrophilic interaction chromatography with pulsed amperometric detection using postcolumn pH adjustment 625(1992)151

Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography-thermospray mass spectrometry 627(1992)63

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19

Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45

Carbohydrate analysis of fermentation broth by high-performance liquid chromatography utilizing solid-phase extraction 632(1993)87

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Pulsed amperometric detection of carbohydrates, amines and sulfur species in ion chromatography—the current state of research (Review) 640(1993)79

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279

Carbonate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Analysis of oxyhalide disinfection by-products and other anions of interest in drinking water by ion chromatography 602(1992)65

Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Carbon clusters

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Carbon dioxide

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Carbonic anhydrase

High-performance gel-permeation chromatographic analysis of protein aggregation. Application to bovine carbonic anhydrase 645(1993)101

Carbon metabolism

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Carbon monoxide

Ambient temperature gas purifier suitable for the trace analysis of carbon monoxide and hydrogen and the preparation of low-level carbon monoxide calibration standards in the field 630(1993)257

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Analysis of carbon monoxide by molecular sieve trapping 639(1993)221

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Carbon oxides

Simultaneous analysis of carbon oxides and hydrocarbons by gas chromatography-mass spectrometry 635(1993)265

Carboranes

Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197

Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73

Carbosulfan

Carbosulfan in technical concentrates and formulated products. Liquid chromatographic determination with photodiode-array detection 607(1992)203

Carboxens

Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265

Carboxyamidotriazole

Quantitation of human plasma levels of the anticancer agent carboxyamidotriazole by high-performance liquid chromatography 613(1993)317

Carboxylates

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

Carboxylic acids

see also Fatty acids and Organic acids

Direct resolution of organic acid enantiomers on a novel polymer-based stationary phase 602(1992)21

Approaches to gradient elution in ion-exclusion chromatography of carboxylic acids 602(1992)43

Forensic applications of coupling non-suppressed ion-exchange chromatography with ion-exclusion chromatography 602(1992)141

Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography-mass spectrometry 609(1992)297

Liquid chromatographic analysis of carboxylic acids using N-(4-aminobutyl)-N-ethylisoluminol as chemiluminescent label: determination of ibuprofen in saliva 615(1993)97

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with highly sensitive laser-induced fluorescence detection 625(1992)357

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Identification of very-long-chain acids from peat and coals by capillary gas chromatography-mass spectrometry 627(1992)241

Chromatographic properties of chemically bonded bovine serum albumin working as a chiral selector in alkaline mobile phases 629(1993)153

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Prospects of dissolved albumin as a chiral selector in capillary zone electrophoresis 638(1993)255

Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Organic acid analysis by ion chromatography-particle beam mass spectrometry 647(1993)95

Carboxymethylcellulose

Composition analysis of carboxymethylcellulose by high-pH anion-exchange chromatography with pulsed amperometric detection 623(1992)49

Carboxymethyl dextrans

Purification of complex protein mixtures by ion-exchange displacement chromatography using spacer displacers 604(1992)39

Carbyl sulphate

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Cardenolides

High-performance liquid chromatographic determination of cardenolides in *Digitalis* leaves after solid-phase extraction 630(1993)402

Cardiac glycosides

Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319

Cardiolipin

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography–reflectance spectrodensitometry 615(1993)142

Carminomicin

Capillary isotachopheric analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Carotenes

Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265

 β -Carotenes

High-performance liquid chromatography–diode-array detection of photosynthetic pigments 607(1992)215

Serum concentrations of retinol, *d*- α -tocopherol and β -carotene: effects of storage at -70°C for five years 614(1993)169

Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235

Carotenoids

New simplified procedures for the extraction and simultaneous high-performance liquid chromatographic analysis of retinol, tocopherols and carotenoids in human serum 617(1993)257

Liquid chromatographic method for the determination of carotenoids, retinoids and tocopherols in human serum and in food 619(1993)37

Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235

Analysis of carotenoids by high-performance liquid chromatography and supercritical fluid chromatography (Review) 633(1993)9

Specific effects of modifiers in subcritical fluid chromatography of carotenoid pigments 641(1993)137

Use of carotenoids in the characterization of octadecylsilane bonded columns and mechanism of retention of carotenoids on monomeric and polymeric stationary phases 645(1993)29

Carotenoids, synthetic

Synthetic carotenoids as internal standards for plasma micronutrient analyses by high-performance liquid chromatography 614(1993)43

Caryophyllene

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Two-solute method for indicating polarity changes of conventional and novel gas chromatographic stationary phases with temperature increase 628(1993)138

Caseins

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81

The analysis of multiple phosphoserine-containing casein peptides using capillary zone electrophoresis 646(1993)391

Catalase

Isolation and characterization of catalase from *Penicillium chrysogenum* 604(1992)177

Catechins

Chromatography of tea constituents (Review) 624(1992)293

Characterization of flavonoids by liquid chromatography–tandem mass spectrometry 629(1993)389

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

Catecholamines

Determination of catecholamines in rat heart tissue and plasma samples by liquid chromatography with electrochemical detection, by B.-M. Eriksson and B.-A. Persson, *J. Chromatogr.*, 228 (1982) 143 612(1993)1

Simultaneous measurement of serotonin, catecholamines and their metabolites in mouse brain homogenates by high-performance liquid chromatography with a microbore column and dual electrochemical detection 615(1993)225

Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339

Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181

Plasma catecholamine levels in children 617(1993)304

Rapid and sensitive assay of dobutamine in plasma by high-performance liquid chromatography and electrochemical detection 620(1993)164

Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

Simultaneous analysis of homovanillic acid, 5-hydroxyindoleacetic acid, 3-methoxy-4-hydroxy-phenylethylene glycol and vanilmandelic acid in plasma from alcoholics by high-performance liquid chromatography with electrochemical detection. Critical comparison of solid-phase and liquid-liquid extraction methods 622(1993)161

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Catechol-2,3-dioxygenase

Interaction of catechol-2,3-dioxygenase of *Pseudomonas putida* with immobilized histidine and histamine 644(1993)289

Catechol oestrogens

Assay of enzymic O-methylation of catechol oestrogens by high-performance liquid chromatography with coulometric detection 617(1993)221

Catechols

Simultaneous determination of hydroquinone, catechol and phenol in urine using high-performance liquid chromatography with fluorimetric detection 619(1993)259

New aliphatic boronate ligands for affinity chromatography 625(1992)91

End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433

Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208

Cathecol

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

Cathepsin A

Purification, subunit structure and inhibitor profile of cathepsin A 627(1992)153

Cathepsin H

Rapid affinity chromatographic method for the isolation of human cathepsin H 615(1993)243

Cations

Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97

Dual-column techniques for the simultaneous analysis of anions and cations 602(1992)127

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179

Simultaneous cation and reversed-phase chromatography 607(1992)135

Bidirectional isotachopheresis. I. Verification of bidirectional isotachopheresis and simultaneous determination of anionic and cationic components 633(1993)251

Determination of anions and cations in concentrated bases and acids by ion chromatography. Electrolytic sample pretreatment 640(1993)151

Field investigation of major and minor ions along Summit (Central Greenland) ice cores by ion chromatography 640(1993)251

Chromatographic methods for the analysis of size-classified and individual raindrops 643(1993)181

Potentiometric detection in ion chromatography using multi-ionophore membrane electrodes 648(1993)283

Cations, inorganic

see Inorganic cations

Cefaclor

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Cefadroxil

Column liquid chromatography and microbiological assay compared for determination of cefadroxil preparations 609(1992)181

Column liquid chromatography of cefadroxil on poly(styrene-divinylbenzene) 628(1993)49

Comparative study of liquid chromatographic methods for the determination of cefadroxil 634(1993)257

Ceftiofur

Determination of ceftiofur and its metabolite desfuroylceftiofur in bovine serum and milk by ion-paired liquid chromatography 614(1993)123

Cellobiohydrolase I

Chiral stationary phases based on intact and fragmented cellobiohydrolase I immobilized on silica 648(1993)333

Cellulase

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Chiral separation of β -blockers by high-performance capillary electrophoresis based on non-immobilized cellulase as enantioselective protein 638(1993)263

Cellulose

Size-exclusion chromatography of cellulose and chitin using lithium chloride-N,N-dimethylacetamide as a mobile phase 635(1993)334

Analysis of cellulose and kraft pulp ozonolysis products by anion-exchange chromatography with pulsed amperometric detection 640(1993)335

Cellulose acetate

Chemical characterization of cellulose acetate by non-exclusion liquid chromatography 629(1993)243

Cellulose esters

Determination of ester substituents in cellulose esters 633(1993)227

Cephalexin

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Cephalomannine

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography-electrospray mass spectrometry 615(1993)273

Cephalosporins

Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275

Determination of a new cephalosporin, SCE-2787, in serum and urine by high-performance liquid chromatography 615(1993)174

Column liquid chromatography of cefadroxil on poly(styrene-divinylbenzene) 628(1993)49

Multidimensional evaluation of impurity profiles for generic cephalixin and cefaclor antibiotics 648(1993)165

Cephapirin

Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephapirin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167

Cephems

Nanoscale packed capillary liquid chromatography-electrospray ionization mass spectrometry: analysis of penicillins and cepheps 616(1993)45

Cerium(III) sulphate

Indirect fluorimetric detection of alkali and alkaline earth metal ions in capillary zone electrophoresis with cerium(III) as carrier electrolyte 626(1992)259

Cetylammmonium bromide

Optimization of selectivity in capillary zone electrophoresis via dynamic pH gradient and dynamic flow gradient 608(1992)65

Cetyl myristate

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Cetyltrimethylammonium bromide

Increased selectivity for electrochromatography by dynamic ion exchange 640(1993)397

CGP 43371

High-performance liquid chromatographic assay for two rifamycin-derived hypocholesterolemic agents in liver and biological fluids 612(1993)310

Chalcones

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic-mass spectrometric data 634(1993)350

Chemical warfare agents

Speciation of arsenic-containing chemical warfare agents by gas chromatographic analysis after derivatization with thioglycolic acid methyl ester 605(1992)257

Determination of mustard gas and related vesicants in rubber and paint by gas chromatography-mass spectrometry 625(1992)382

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography-mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71

Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283

Chimassorb 944

Determination of the polymeric light stabilizer Chimassorb 944 in polyolefins by isocratic high-performance liquid chromatography 606(1992)136

Chitin

Size-exclusion chromatography of cellulose and chitin using lithium chloride-N,N-dimethylacetamide as a mobile phase 635(1993)334

Chitin deacetylase

Isolation of chitin deacetylase from *Mucor rouxii* by immunoaffinity chromatography 644(1993)35

Chloramphenicol

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Chloramphenicol acetyl transferase

High-performance capillary electrophoretic analysis of chloramphenicol acetyl transferase activity 603(1992)247

Chlorfenvinphos-cis

On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Chlorhexidine

Sensitive high-performance liquid chromatographic assay for the determination of chlorhexidine in saliva 612(1993)166

Chloride

Analysis of oxyhalide disinfection by-products and other anions of interest in drinking water by ion chromatography 602(1992)65

Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Evaluation of ion-exchange chromatography for nitrate determination in wastewaters 644(1993)341

Chlorinated aromatic thioethers

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Chlorinated fatty acids

Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection 625(1992)257

Chlorinated hydrocarbons

Identification and quantification of 18-nor- and 19-norditerpenes and their chlorinated analogues in samples of sediment and fish 643(1993)439

Chlorinated organic compounds

Analysis of cellulose and kraft pulp ozonolysis products by anion-exchange chromatography with pulsed amperometric detection 640(1993)335

Chlorinated pesticides

Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341

Chlorinated phenolics

Determination of phenolics from sediments of pulp mill origin by *in situ* supercritical carbon dioxide extraction and derivatization 636(1993)263

Chlorine

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion-ion chromatography technique 640(1993)111

Chlorine e₆

Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295

Chlorite

Analysis of oxyhalide disinfection by-products and other anions of interest in drinking water by ion chromatography 602(1992)65

Chlormequat

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Chloroacetaldehyde

Determination of chloroacetaldehyde, a metabolite of oxazaphosphorine cytostatic drugs, in plasma 614(1993)253

Chloroacetanilides

Automated solid-phase extraction of herbicides from water for gas chromatographic–mass spectrometric analysis 629(1993)55

1-Chloro-2-aminopyridine

Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351

***p*-Chloroaniline**

High-performance liquid chromatographic analysis of chlorhexidine and *p*-chloroaniline using a specialty column and a photodiode-array detector 623(1992)375

Chloroanilines

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

Chlorobenzenes

Theoretical calculation of the retention of chlorobenzenes on non-polar and polar capillary columns connected in series 626(1992)207

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

***p*-Chlorobenzoic acid**

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Chlorobenzophenones

Gas chromatographic method for the determination of chlorobenzophenone isomers 628(1993)143

Chlorobiphenyls

Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425

Chlorobiphenyls, planar

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography–high-resolution mass spectrometry 630(1993)297

1-Chloro-2-(*N*-*tert*-butylcarbamate)pyridine

Packed-column supercritical fluid chromatography coupled with electrospray ionization mass spectrometry 647(1993)351

Chlorodibromomethane

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

3-Chloro-4-dichloromethyl-5-hydroxy-2(5*H*)-franone

Determination of the potent mutagen 3-chloro-4-dichloromethyl-5-hydroxy-2(5*H*)-franone (MX) in water by gas chromatography with electron-capture detection 643(1993)221

Chloro-4-dimethylaminoazobenzenes

Laser-based double beam absorption detector for high-performance liquid chromatography 645(1993)201

Chlorofluorocarbons

Evaluation of Carboxen carbon molecular sieves for trapping replacement chlorofluorocarbons 630(1993)265

Chloroform

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Evaluation of the liquid–liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117

False results in headspace–gas chromatographic analysis of trihalomethanes in swimming pool water due to elevated headspace temperatures 648(1993)294

Chloroformates

Improved procedure for the derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 630(1993)429

Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227

Chloroguaiacols

Liquid chromatography–electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Chlorohexidine

High-performance liquid chromatographic analysis of chlorhexidine and *p*-chloroaniline using a specialty column and a photodiode-array detector 623(1992)375

Chloronitrobenzenes

Determination of *p*-chloronitrobenzene and its metabolites in urine by reversed-phase high-performance liquid chromatography 613(1993)79

Comparison of different methods for the prediction of retention times in programmed-temperature gas chromatography 635(1993)103

7-Chloro-4-nitrobenzoxazole

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Chlorophenols

In situ extraction and derivatization of pentachlorophenol and related compounds from soils using a supercritical fluid extraction system 605(1992)109

Liquid chromatography–electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Simultaneous optimization of pH and organic modifier content of the mobile phase for the separation of chlorophenols using a Doehlert design 628(1993)171

Glass fibre prefilter–XAD-2 sampling and gas chromatographic determination of airborne chlorophenols 636(1993)255

Tandem supercritical fluid extraction and liquid chromatography system for determination of chlorinated phenols in solid matrices 639(1993)151

Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239

Optimized capillary zone electrophoretic separation of chlorinated phenols 645(1993)327

Chlorophenoxyacetic acids

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Separation of some chlorophenoxyacetic acid congeners on a porous graphitized carbon column 643(1993)331

Chlorophenoxy acids

Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227

Chlorophylls

High-performance liquid chromatography–diode-array detection of photosynthetic pigments 607(1992)215

Preparation and determination of zinc(II) chlorophylls by reversed-phase high-performance liquid chromatography 645(1993)259

3-Chloropropane-1,2-diol

Determination of 3-chloropropanediol and related dioxolanes by gas chromatography 605(1992)134

Determination of 3-chloropropane-1,2-diol in hydrolyzed vegetable proteins by capillary gas chromatography with electrolytic conductivity detection 638(1993)71

Chloroquine

Simultaneous determination of chloroquine and quinine in human biological fluids by high-performance liquid chromatography 613(1993)303

Chlorosyringol

Liquid chromatography–electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Chlorotriazines

Comparison of gas chromatographic–mass spectrometric methods for screening of chlorotriazine pesticides in soil 603(1992)175

Chlorpheniramine

Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Chlorpromazine

Determination of chlorpromazine in human breast milk and serum by high-performance liquid chromatography 614(1993)328

Chlorpyrifos-methyl

On-line combination of automated micro liquid–liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Chlorthalidone

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Chlorzoxazone

Sensitive high-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in plasma 613(1993)127

High-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in serum: a tool for indirect evaluation of cytochrome P4502E1 activity in humans 622(1993)79

Cholecystokinin

Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311

Cholera toxin

Study of lectin–ganglioside interactions by high-performance liquid affinity chromatography 646(1993)327

Cholestanol

Simultaneous determination of cholesterol and cholestanol in human serum by high-performance liquid chromatography using 3-(5,6-methylenedioxy-2-phthalimidyl)benzoyl azide as precolumn fluorescent labelling reagent 617(1993)213

Cholestanone

Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1

Cholesterol

Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1

Simultaneous determination of mevalonate and 7 α -hydroxycholesterol in human plasma by gas chromatography-mass spectrometry as indices of cholesterol and bile acid biosynthesis 613(1993)185

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Simultaneous determination of cholesterol and cholestanol in human serum by high-performance liquid chromatography using 3-(5,6-methylenedioxy-2-phthalimidyl)benzoyl azide as precolumn fluorescent labelling reagent 617(1993)213

Chromatographic separation of cholesterol in foods (Review) 624(1992)369

Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221

Cholesterol ester hydroperoxides

Determination of triacylglycerol and cholesterol ester hydroperoxides in human plasma by high-performance liquid chromatography with fluorometric postcolumn detection 617(1993)205

Cholesterol esters

Simultaneous determination of hydroperoxides of phosphatidylcholine, cholesterol esters and triacylglycerols by column-switching high-performance liquid chromatography with a post-column detection system 622(1993)153

Thin-layer chromatography-flame ionization detection Iatroscan system (Review) 624(1992)21

Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31

Cholesteryl acetate

Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1

Cholesteryl formate

Adsorption isotherms of cholesterol and related compounds in non-aqueous reversed-phase chromatographic systems 605(1992)1

Cholesteryl palmitate

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Choline

Liquid chromatography with electrochemical detection for quantitation of bound choline liberated by phospholipase D hydrolysis from phospholipids containing choline in rat plasma 616(1993)323

Improved method for the routine analysis of acetylcholine release *in vivo*: quantitation in the presence and absence of esterase inhibitor 622(1993)125

Chondroitinase ABC

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

Chondroitin sulphate

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Chorionic gonadotropin

High-performance liquid chromatography of human glycoprotein hormones 631(1993)261

Chromate

Regulated methods for ion analysis 602(1992)205

Chromium

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Chrysanthenol acetate

Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255

Chrysene

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Chrysin

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

CI-979

Measurement of CI-979 (a candidate drug for the treatment of age-related disorders of cognition) in human plasma by capillary gas chromatography with nitrogen-selective detection 619(1993)315

Cibacron Blue F3G-A

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Ciliary neurotrophic factor

Capillary sodium dodecyl sulfate gel electrophoresis of proteins 632(1993)171

Cinnamic acid derivatives

Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403

Ciprofloxacin

Determination of ciprofloxacin levels in chinchilla middle ear effusion and plasma by high-performance liquid chromatography with fluorescence detection 617(1993)329

Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105

C.I. Reactive Blue 2

Development of an enzyme-linked immunosorbent assay for C.I. Reactive Blue 2 and its application to a comparison of the stability and performance of a perfluorocarbon support with other immobilised C.I. Reactive Blue 2 affinity adsorbents 623(1992)1

Circumsporozoite protein

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Cisplatin

Determination of cisplatin and some possible metabolites by ion-pairing chromatography with inductively coupled plasma mass spectrometric detection 615(1993)83

Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101

Isolation of *cis*-[PtCl(NH₃)₂(H₂O)](ClO₄), the monohydrated form of the anti-tumour drug cisplatin, using cation-exchange high-performance liquid chromatography 648(1993)279

Citalopram

Determination of plasma levels of citalopram and its demethylated and deaminated metabolites by gas chromatography and gas chromatography-mass spectrometry 616(1993)221

Citrate

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Clenbuterol

Determination of propranolol, labetalol and clenbuterol in rat brain by high-performance liquid chromatography 613(1993)121

Confirmatory analysis of clenbuterol using two different derivatives simultaneously 619(1993)243

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Inter-company cross-validation exercise on capillary electrophoresis. I. Chiral analysis of clenbuterol 641(1993)147

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Clobazam

Monitoring of benzodiazepines (clobazam, diazepam and their main active metabolites) in human plasma by column-switching high-performance liquid chromatography 617(1993)285

Clodronate

High-performance liquid chromatographic method for simultaneous determination of clodronate and some clodronate esters 617(1993)291

Clodronate esters

High-performance liquid chromatographic method for simultaneous determination of clodronate and some clodronate esters 617(1993)291

Clomiphene

Simple and rapid determination of clomiphene *cis* and *trans* isomers in human plasma by high-performance liquid chromatography using on-line post-column photochemical derivatization and fluorescence detection 617(1993)168

Clomipramine

Isotachophoretic analysis of some antidepressants 638(1993)231

Clonazepam

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

Cloxacillin

Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167

Clozapine

Determination of clozapine and desmethylclozapine in human plasma by high-performance liquid chromatography with ultraviolet detection 613(1993)168

On-line fully automated determination of clozapine and desmethylclozapine in human serum by solid-phase extraction on exchangeable cartridges and liquid chromatography using a methanol buffer mobile phase on unmodified silica 622(1993)39

CNP

Determination of pesticides in river water by gas chromatography–mass spectrometry–selected-ion monitoring 643(1993)197

Cobalamin

Quantification of methylmalonic acid in serum measured by capillary gas chromatography–mass spectrometry as *tert*-butyldimethylsilyl derivatives 620(1993)1

Cobalt

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)resorcinol and Arsenazo-III 605(1992)63

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)–adenosine diphosphate nitrilotriacetate system 606(1992)147

Electrochemical detection of cobalt in hair following on-column derivatization with 1-(2-pyridylazo)-2-naphthol-6-sulphonic acid and reversed-phase liquid chromatography 619(1993)103

Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379

Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Cobaltacarboranes

Chiral resolution of enantiomers of asymmetric cobaltacarboranes with a monoatomic bridge between ligands by liquid chromatography on a β -cyclodextrin column 633(1993)73

Cobalt complexes

Salting-out thin-layer chromatography of transition metal complexes. I. Investigation of the behaviour of mixed aminocarboxylato cobalt(III) complexes on silica gel 609(1992)427

Cocaine

Quantitation of benzoylecgonine and other cocaine metabolites in meconium by high-performance liquid chromatography 613(1993)330

Gas chromatographic–mass spectrometric determination of plasma and brain cocaine in mice 621(1993)89

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Capillary electrophoresis for the investigation of illicit drugs in hair: determination of cocaine and morphine 638(1993)303

Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography–electrochemical detection 643(1993)107

Codeine

High-performance liquid chromatographic determination of morphine and its metabolites in plasma using diode-array detection 615(1993)164

Simultaneous determination of 6-monoacetylmorphine, morphine and codeine in urine using high-performance liquid chromatography with combined ultraviolet and electrochemical detection 617(1993)152

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography–mass spectrometry 621(1993)41

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366

Coenzyme A

Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251

Coenzyme Q

Determination of coenzyme Q by non-aqueous reversed-phase liquid chromatography 606(1992)272

Coenzymes

Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion 609(1992)83

Collagen

Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133

Colloids

Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459

Columbamine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Concanavalin A

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Contactinhibin

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Copper

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Reactive carriers for the immobilization of copper ions 604(1992)5

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)resorcinol and Arsenazo-III 605(1992)63

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)-adenosine diphosphate nitrilotriacetate system 606(1992)147

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Copper complexes

Determination of hydroxy acids as their copper(II) complexes by reversed-phase liquid chromatography with UV detection 623(1992)55

Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225

Copper complexes, porphyrins

High-performance thin-layer chromatographic mobility of porphyrins and their copper complexes on different adsorbents 609(1992)341

Copper(II) sulphate

Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO₄-containing eluents 645(1993)185

Copper-8-quinolinolate

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

Coprostanol

Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia 643(1993)189

Coptidis rhizoma

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Coptisine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Determination of coptisine, berberine and palmatine in traditional Chinese medicinal preparations by capillary electrophoresis 639(1993)323

Corrinoids

Identification of vitamin B₁₂ and analogues by high-performance capillary electrophoresis and comparison with high-performance liquid chromatography 608(1992)311

Corticosteroids

see also Steroids

Determination of corticosteroids in plasma by high-performance liquid chromatography after pre-column derivatization with 2-(4-carboxyphenyl)-5,6-dimethylbenzimidazole 612(1993)33

Optimization of the high-performance liquid chromatographic separation of a mixture of natural and synthetic corticosteroids 620(1993)15

Comparison of immunoaffinity chromatography combined with gas chromatography–negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250

Corticosterone

Assay of human plasma cortisone by liquid chromatography: normal plasma concentrations (between 8 and 10 a.m.) of cortisone and corticosterone 613(1993)195

Cortisol

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Gas chromatographic–mass spectrometric method for measuring stable isotope enrichments of underivatized cortisol from small plasma volumes 621(1993)1

Cortisone

Assay of human plasma cortisone by liquid chromatography: normal plasma concentrations (between 8 and 10 a.m.) of cortisone and corticosterone 613(1993)195

Cortolone

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Cotinine

Determination of nicotine and two major metabolites in serum by solid-phase extraction and high-performance liquid chromatography, and high-performance liquid chromatography–particle beam mass spectrometry 612(1993)209

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

High-performance liquid chromatographic determination of nicotine and its urinary metabolites via their 1,3-diethyl-2-thiobarbituric acid derivatives 613(1993)95

Simple selected ion monitoring capillary gas chromatographic–mass spectrometric method for the determination of cotinine in serum, urine and oral samples 615(1993)148

Simple high-performance liquid chromatographic method to verify the direct barbituric acid assay for urinary cotinine 620(1993)254

Determination of nicotine and four metabolites in the serum of smokers by high-performance liquid chromatography with ultraviolet detection 621(1993)257

Cotinine N-oxide

Determination of nicotine and four metabolites in the serum of smokers by high-performance liquid chromatography with ultraviolet detection 621(1993)257

***p*-Coumaric acid**

Determination of alkali-soluble phenolic monomers in grasses after separation by thin-layer chromatography 604(1992)290

Coumarin

Sensitive high-performance liquid chromatographic method for the determination of coumarin in plasma 620(1993)273

Coumarins

Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275

Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251

CR

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

Creatinine

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

High-performance liquid chromatographic determination of creatinine in serum, and a correlation of the results with those of the Jaffé and enzymic methods 614(1993)221

Crocetins

Methods for the analysis of the saffron metabolites crocin, crocetins, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Crocin

Methods for the analysis of the saffron metabolites crocin, crocetins, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187

Cross-linkers

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

Crown ethers

Gas chromatographic study of the inclusion properties of dibenzo-24-crown-8 ether 623(1992)297

Improved crown ether-based chiral stationary phase
625(1992)101

Anion chromatography with a crown ether-based stationary
phase and an organic modifier in the eluent 640(1993)33

Cryptands

Anion chromatography with a crown ether-based stationary
phase and an organic modifier in the eluent 640(1993)33

Cucurbitine

Stereoselective determination of cucurbitine in *Cucurbita* spp.
seeds by gas chromatography and gas chromatography–mass
spectrometry 625(1992)289

Cuminal

Two-solute method for indicating polarity changes of
conventional and novel gas chromatographic stationary phases
with temperature increase 628(1993)138

Cyclic adenosine 3',5'-monophosphate

Basal and stimulated cyclic adenosine 3',5'-monophosphate
production in rat adenopituitary homogenates: direct
determination by high-performance liquid chromatography
619(1993)116

Cyclic alcohols

Enantiomer separation by complexation gas and supercritical
fluid chromatography on immobilized polysiloxane-bonded
nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-
camphorate] (Chirasil-nickel) 638(1993)85

Cyclic 2,3-diphosphoglycerate

Quantification of intermediates involved in the cyclic 2,3-
diphosphoglycerate metabolism of methanogenic bacteria by
ion-exchange chromatography 606(1992)65

Cyclic phosphates

Temperature dependence of the anion-exchange
chromatographic behaviour of cyclic phosphate oligomers and
their anion-exchange separation 628(1993)241

Anion-exchange selectivity of cyclic phosphate oligomers
644(1993)198

Cycloalkanes

Identification and determination of biogenic and
anthropogenic volatile organic compounds in forest areas of
Northern and Southern Europe and a remote site of the
Himalaya region by high-resolution gas chromatography–mass
spectrometry 643(1993)55

Cyclodextrins

Systematic study on the resolution of derivatized amino acids
enantiomers on different cyclodextrin-bonded stationary
phases 603(1992)83

Practical approach to the miniaturization of chiral separations
in liquid chromatography using packed fused-silica capillary
columns 603(1992)121

Theoretical aspects of chiral separation in capillary
electrophoresis. I. Initial evaluation of a model 603(1992)235

Chiral separations of basic drugs and quantitation of
bupivacaine enantiomers in serum by capillary electrophoresis
with modified cyclodextrin buffers 608(1992)265

Chiral separations by capillary electrophoresis using
cyclodextrin-containing gels 608(1992)421

Liquid chromatographic determination of β -cyclodextrin
derivatives based on fluorescence enhancement after inclusion
complexation 614(1993)95

Determination of the impurity profile of γ -cyclodextrin by
high-performance liquid chromatography 625(1992)157

Preparation and chromatographic evaluation of 3,5-
dimethylphenyl carbamoylated β -cyclodextrin stationary
phases for normal-phase high-performance liquid
chromatographic separation of enantiomers 628(1993)11

Separation of drug stereoisomers by capillary electrophoresis
with cyclodextrins 630(1993)353

Reversed-phase liquid chromatographic measurement of the
influence of a co-modifier functional group on the retention
behavior of the β -cyclodextrin–pyrene complex 635(1993)211

Capillary electrophoretic chiral separations with cyclodextrin
additives. I. Acids: chiral selectivity as a function of pH and
the concentration of β -cyclodextrin for fenoprofen and
ibuprofen 635(1993)291

Cyclodextrin-modified micellar electrokinetic chromatography:
separation of hydrophobic and enantiomeric compounds
636(1993)47

Semi-preparative high-performance liquid chromatographic
resolution of brompheniramine enantiomers using
 β -cyclodextrin in the mobile phase 637(1993)137

Use of charged and neutral cyclodextrins in capillary zone
electrophoresis: enantiomeric resolution of some 2-hydroxy
acids 638(1993)247

High-performance liquid chromatographic separation of
fullerenes (C_{60} and C_{70}) using chemically bonded
 γ -cyclodextrin as stationary phase 644(1993)396

Electrospray mass spectrometry of neutral and acidic
oligosaccharides: methylated cyclodextrins and identification of
unknowns derived from fruit material 647(1993)279

Cyclohexane

Application of a new numerical method for characterizing
heterogeneous solids by using gas–solid chromatographic
data 628(1993)59

Cyclohexanone

Chemical ionization with gaseous ammonia for normal-phase liquid chromatographic–thermospray mass spectrometric applications 626(1992)81

Cyclohexenes

Application of a new numerical method for characterizing heterogeneous solids by using gas–solid chromatographic data 628(1993)59

Assessment by gas chromatography–mass spectrometry of hexenes emitted to air from petrol 638(1993)65

Cyclooctatetraene

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

N⁶-Cyclopentyladenosine

High-performance liquid chromatography of the adenosine A₁ agonist N⁶-cyclopentyladenosine and the A₁ antagonist 8-cyclopentyltheophylline and its application in a pharmacokinetic study in rats 620(1993)113

8-Cyclopentyltheophylline

High-performance liquid chromatography of the adenosine A₁ agonist N⁶-cyclopentyladenosine and the A₁ antagonist 8-cyclopentyltheophylline and its application in a pharmacokinetic study in rats 620(1993)113

Cyclophosphamide

Determination of cyclophosphamide in urine by gas chromatography–mass spectrometry 616(1993)333

Cyclosporins

Optimization of high-performance liquid chromatographic conditions for the determination of cyclosporins A, B and C in fermentation samples 604(1992)285

Improved ultraviolet detection in high-temperature open-tubular liquid chromatography 629(1993)135

Cyhexatin

Specific gas chromatography–mass spectrometry analytical method for the determination of cyhexatin in animal feed 605(1992)129

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Cysteine persulphide

Sulphur compounds. CLVII. Determination of cysteine-S-sulphonate by ion-pair chromatography and its formation by autoxidation of cysteine persulphide 606(1992)260

Cysteine protease inhibitor

Determination of a cysteine protease inhibitor and its ethyl ester in mouse serum and muscle by liquid chromatography–mass spectrometry 621(1993)181

Cysteine proteinase

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Cysteine-S-sulphonate

Sulphur compounds. CLVII. Determination of cysteine-S-sulphonate by ion-pair chromatography and its formation by autoxidation of cysteine persulphide 606(1992)260

Cysteine sulfoxides

Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulfoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(*trans*-1-propenyl)-L-cysteine 625(1992)183

Cytochrome P-450

High-performance liquid chromatographic assay for human liver microsomal omeprazole metabolism 619(1993)291

Purification of cytochromes P-450 derived from liver microsomes of untreated and 2,3,7,8-tetrachlorodibenzo-*p*-dioxin-treated marmoset monkeys 625(1992)55

Purification of the cytochrome P-450 enzyme geraniol 10-hydroxylase from cell cultures of *Catharanthus roseus* 635(1993)237

Cytochrome P-450E1

High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-450E1 activity, in human liver microsomes 616(1993)73

High-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in serum: a tool for indirect evaluation of cytochrome P450E1 activity in humans 622(1993)79

Cytokines

Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235

D

Dabsyl chloride

Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133

[D-Tle²⁻⁵]-Dalargin

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Dapoxetine

Determination of dapoxetine, an investigational agent with the potential for treating depression, and its mono- and di-desmethyl metabolites in human plasma using column-switching high-performance liquid chromatography 612(1993)253

Dapsone

Simultaneous determination of dapsone, monoacetyldapsone and pyrimethamine in whole blood and plasma by high-performance liquid chromatography 613(1993)340

Daunorubicin

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

D&C Red No. 27

Complementary use of counter-current chromatography and preparative reversed-phase high-performance liquid chromatography in the separation of a synthetic mixture of brominated tetrachlorofluoresceins 607(1992)47

D&C Red No. 28

Complementary use of counter-current chromatography and preparative reversed-phase high-performance liquid chromatography in the separation of a synthetic mixture of brominated tetrachlorofluoresceins 607(1992)47

10-Deacetylcephalomannine

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography–electrospray mass spectrometry 615(1993)273

Deacetyldiltiazem

High-performance liquid chromatographic determination of diltiazem and two of its metabolites in plasma using a short alkyl chain silanol deactivated column 615(1993)111

10-Deacetyltaxol

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography–electrospray mass spectrometry 615(1993)273

Decahydronaphthalene

Improvement of continuous counter-current gas–liquid chromatography for practical use 629(1993)291

Dechloroethylifosfamides

Determination of chloroacetaldehyde, a metabolite of oxazaphosphorine cytostatic drugs, in plasma 614(1993)253

Determination of the enantiomers of ifosfamide and its 2- and 3-N-dechloroethylated metabolites in plasma and urine using enantioselective gas chromatography with mass spectrometric detection 622(1993)21

Dehydroabietic acid

Quantitative determination of dehydroabietic acid methyl ester in disproportionated rosin 641(1993)199

Dehydroascorbic acid

Testicular and plasma ascorbic acid levels in mice following dietary intake: a high-performance liquid chromatographic analysis 614(1993)233

Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197

Dehydroevodiamine

High-performance liquid chromatography of the quinazolinocarboline alkaloid dehydroevodiamine 617(1993)87

Dehydrolicidusculine

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 644(1993)43

Dehydronorketamine

Rapid high-performance liquid chromatographic method for the determination of ketamine and its metabolite dehydronorketamine in equine serum 620(1993)281

Dehydrosparteine

Rapid determination of sparteine and its metabolites in urine 622(1993)274

11-Dehydrothromboxane B₂

Improved assay for the quantification of 11-dehydrothromboxane B₂ by gas chromatography–mass spectrometry 612(1993)179

Delcosine

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 644(1993)43

De(N-methyl)-N-ethyl-8,9-anhydroerythromycin

Sensitive high-performance liquid chromatographic determination of EM523, a new erythromycin derivative, in human plasma and urine with ultraviolet detection using column switching 616(1993)144

Demycinosyltylosin

Quantitative analysis of tylosin by column liquid chromatography 630(1993)159

2'-Deoxyadenosine

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Deoxyadenylic acid

Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315

2'-Deoxycytidine

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Deoxy-deazapurines

Assay of deoxy-deazapurines in DNA by 3'-phosphorylation and two-dimensional thin-layer chromatography 612(1993)277

5'-Deoxy-5-fluorouridine

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

1-Deoxyglucose

Simultaneous determination of glucose and 1-deoxyglucose in serum by anion-exchange chromatography with an immobilized pyranose oxidase reactor 620(1993)9

Deoxynucleoside-5'-monophosphates

Capillary electrophoresis of fluorescein-ethylenediamine-5'-deoxynucleotides 608(1992)171

2'-Deoxynucleoside/phenylglycidyl ether adducts

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Deoxynucleosides

Analytical procedures and quality assurance criteria for the determination of major and minor deoxynucleosides in fish tissue DNA by liquid chromatography-ultraviolet spectroscopy and liquid chromatography-thermospray mass spectrometry 615(1993)203

Deoxy pyridinoline

Assay of pyridinium crosslinks in serum using narrow-bore ion-paired reversed-phase high-performance liquid chromatography 612(1993)41

Deoxyribonuclease

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

2'-Deoxyribonucleoside 3'-monophosphates

Simple chromatographic systems permitting both DNA purification and separation of 2'-deoxyribonucleoside 3'-monophosphates as substrates for ³²P-postlabelling studies 613(1993)257

Deoxyribonucleoside triphosphate

Improved high-performance liquid chromatographic analysis of intracellular deoxyribonucleoside triphosphate levels 619(1993)29

Deoxyuridines

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Separation of the anomers and isomers of 2'-deoxyuridine and thymidine by capillary zone electrophoresis 648(1993)299

Dermatan sulphate

Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A-Sepharose 615(1993)215

17-Desacetylrocuronium

Determination of rocuronium and its putative metabolites in body fluids and tissue homogenates 621(1993)65

N-Desallylrocuronium

Determination of rocuronium and its putative metabolites in body fluids and tissue homogenates 621(1993)65

N-Desbutylhalofantrine

Direct determination of the enantiomers of halofantrine and its pharmacologically active metabolite N-desbutylhalofantrine by high-performance liquid chromatography 615(1993)347

Desfuroylceftiofur

Determination of ceftiofur and its metabolite desfuroylceftiofur in bovine serum and milk by ion-paired liquid chromatography 614(1993)123

Desipramine

High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87

Metabolism of imipramine *in vitro* by isozyme CYP2D6 expressed in a human cell line, and observations on metabolite stability 615(1993)265

Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135

Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181

N-Desisopropylpentisomide

High-performance liquid chromatographic method for the simultaneous determination of pentisomide and its major metabolite N-desisopropylpentisomide in plasma, urine and tissues using solid-phase extraction 612(1993)123

Desmethylcitalopram

Determination of plasma levels of citalopram and its demethylated and deaminated metabolites by gas chromatography and gas chromatography-mass spectrometry 616(1993)221

Desmethylclozapine

Determination of clozapine and desmethylclozapine in human plasma by high-performance liquid chromatography with ultraviolet detection 613(1993)168

On-line fully automated determination of clozapine and desmethylclozapine in human serum by solid-phase extraction on exchangeable cartridges and liquid chromatography using a methanol buffer mobile phase on unmodified silica 622(1993)39

Desmethyldapoxetine

Determination of dapoxetine, an investigational agent with the potential for treating depression, and its mono- and di-desmethyl metabolites in human plasma using column-switching high-performance liquid chromatography 612(1993)253

Desmethyldiltiazem

High-performance liquid chromatographic determination of diltiazem and two of its metabolites in plasma using a short alkyl chain silanol deactivated column 615(1993)111

Desmethylimipramine

Isotope effects in liquid chromatography of imipramine and desmethylimipramine 636(1993)243

O-Desmethyldomethacin

Determination of indomethacin, its metabolites and their glucuronides in human plasma and urine by means of direct gradient high-performance liquid chromatographic analysis. Preliminary pharmacokinetics and effect of probenecid 616(1993)271

Desmethyltrimipramine

Simultaneous determination of trimipramine and desmethyl- and hydroxytrimipramine in plasma and red blood cells by capillary gas chromatography with nitrogen-selective detection 613(1993)59

N-Desmethylopiclone

Determination of the enantiomers of zopiclone and its two chiral metabolites in urine using an automated coupled achiral-chiral chromatographic system 617(1993)271

Desulphoglucosinolates

Factors influencing the separation and quantitation of intact glucosinolates and desulphoglucosinolates by micellar electrokinetic capillary chromatography 608(1992)363

Detergents

see also Surfactants

Pollutants in drinking water and waste water 643(1993)145

Effect of different amounts of the non-ionic detergents C₁₀E₅ and C₁₂E₅ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37

Deuterium oxide

Deuterium oxide as a reagent for the modification of mass spectra in electrospray microcolumn liquid chromatography-mass spectrometry 647(1993)31

Dexamethasone

Comparison of immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250

Dexfenfluramine

Determination of dexfenfluramine and nordexfenfluramine in urine by high-performance liquid chromatography using ultraviolet detection 621(1993)115

Dextrans

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Analytical gel filtration of dextran for study of the glomerular barrier function 641(1993)63

Size-exclusion chromatography in an analytical perspective 648(1993)19

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Dextran sulphate

Size-exclusion chromatographic determination of dextran sulfate in rat serum 620(1993)137

Determination of polyanionic macromolecules by size-exclusion chromatography 622(1993)278

Dextromethorphan

Validation of improved methods for high-performance liquid chromatographic determination of phenylpropanolamine, dextromethorphan, guaifenesin and sodium benzoate in a cough-cold formulation 641(1993)241

Dextromoramide

Simultaneous determination of dextromoramide, propoxyphene and norpropoxyphene in necropsic whole blood by liquid chromatography 615(1993)357

Diacetoxyscirpenol

Identification of mycotoxins in keratomycosis-derived *Fusarium* isolates by gas chromatography–mass spectrometry 620(1993)243

Diacetylphloroglucinol

Isolation, trace enrichment and liquid chromatographic analysis of diacetylphloroglucinol in culture and soil samples using UV and amperometric detection 606(1992)171

Diacylglycerols

Reversed-phase thin-layer chromatography of diacylglycerols in the presence of silver ions 603(1992)213

Effect of temperature on chiral and achiral separations of diacylglycerol derivatives by high-performance liquid chromatography on a chiral stationary phase 625(1992)163

Diacyl phosphoglycerides

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

N,N-Dialkylaniline-N-oxides

Liquid chromatographic determination of *para*-substituted N,N-dialkylaniline N-oxides 619(1993)71

Dialkyl ethers

Mixed retention mechanism in gas–liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225

Dialkylglycerol ethers

Gas chromatographic determination of isoprenoid alkylglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253

Dialkyl peroxides

Peroxides. XII. Gas–liquid and high-performance liquid chromatographic analysis of aliphatic hydroperoxides and dialkyl peroxides 637(1993)157

Dialkyl sulphides

Application of dithiocarbamate resin–metal complexes as stationary phases in gas chromatography 630(1993)275

N,N'-Diallyltartardiamide

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

2,7-Diaminomitosene

Determination of mitomycin C, 2,7-diaminomitosene, 1,2-*cis*- and 1,2-*trans*-1-hydroxy-2,7-diaminomitosene in tumour tissue by high-performance liquid chromatography 612(1993)105

2,3-Diaminophenazine

Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168

Diaminopimelic acid

Determination of diaminopimelic acid in biological materials using high-performance liquid chromatography 623(1992)63

2,4-Diaminopyrimidines

Determination of isomeric N-oxide metabolites of some substituted 2,4-diaminopyrimidines by reversed-phase ion-pair high-performance liquid chromatography 616(1993)79

***cis*-Diamminedichloroplatinum**

see Cisplatin

Diazepam

Simplified method for simultaneous determination of diazepam and its metabolites in urine by thin-layer chromatography and direct densitometry 615(1993)365

Monitoring of benzodiazepines (clobazam, diazepam and their main active metabolites) in human plasma by column-switching high-performance liquid chromatography 617(1993)285

Diazion

On-line combination of automated micro liquid–liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Dibenzo-24-crown-8 ether

Gas chromatographic study of the inclusion properties of dibenzo-24-crown-8 ether 623(1992)297

Dibenzofurans

Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in tire fire runoff oil 648(1993)213

Dibenzothiophene

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

 α,ϵ -Dibenzoyllysine

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Di-*tert*-butyl disulphide

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

2,6-Di-*tert*-butyl-4-ethylphenol

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

2,6-Di-*tert*-butyl-4-methoxyphenol

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

2,6-Di-*tert*-butyl-4-methylphenol

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

Dicarboxylic acids

Identification of very-long-chain acids from peat and coals by capillary gas chromatography-mass spectrometry 627(1992)241

***cis*-Dichlorodiamineplatinum(II)**

High-performance liquid chromatographic-mass spectrometric analysis of *cis*-dichlorodiamineplatinum-DNA complexes using an ionspray interface 633(1993)119

1,2-Dichloroethane

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

Dichloromethane

Alternatives to methanol-water elution of solid-phase extraction columns for the fractionation of high log K_{ow} organic compounds in aqueous environmental samples 629(1993)67

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

Trace determination of volatile organic compounds in water by enrichment in ultra-thick-film capillary traps and gas chromatography 642(1993)117

Dichlorophenoxyacetic acids

Quantitative reproducibility study with automated microcolumn liquid chromatography 607(1992)131

Dichlorvos

Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples 612(1993)336

Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples. Reply to Aden Abdi *et al.* 612(1993)338

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59

Di-clazuril

Determination of di-clazuril in animal feed by liquid chromatography 606(1992)141

Diclofenac

High-performance liquid chromatographic determination of diclofenac in human plasma using automated column switching 616(1993)283

Extractionless high-performance liquid chromatographic method for the determination of diclofenac in human plasma and urine 619(1993)324

High-performance liquid chromatographic method for the routine determination of diclofenac and its hydroxy and methoxy metabolites from *in vitro* systems 620(1993)158

Dicofol

Identification by gas chromatography-electron-capture detection and gas chromatography-mass spectrometry of the ozonation products in wastewater from dicofol and tetradifon manufacturing 607(1992)311

Dideoxynucleotides

Separation of dideoxyribonucleosides in trace amounts by automated liquid chromatography and capillary electrophoresis 609(1992)147

Dideoxytrisacryl

Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333

N-Didesmethyladitoprim

Determination of aditoprim and its oxidative metabolites in plasma and microsomal incubation mixtures by high-performance liquid chromatography 612(1993)115

Didesmethylcitalopram

Determination of plasma levels of citalopram and its demethylated and deaminated metabolites by gas chromatography and gas chromatography-mass spectrometry 616(1993)221

Didesmethylimipramine

High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87

Dieldrin

Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341

Dienes, conjugated

Sensitive and stable Cookson-type reagent for derivatization of conjugated dienes for high-performance liquid chromatography with fluorescence detection 606(1992)133

Dienestrol

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Diesel fuel

Extraction and analysis of diesel fuel by supercritical fluid extraction and microbore supercritical fluid chromatography 637(1993)175

Diethers

High-performance liquid chromatographic determination of the enantiomeric excess of 1,3-glyceryl diethers obtained by stereoselective catalytic reduction 604(1992)197

Diethylstilbestrol

Improved thin-layer chromatographic detection of diethylstilbestrol and zeranol in plasma and tissues isolated with alumina and ion-exchange membrane columns in tandem 614(1993)315

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Difenacoum

Simple and rapid method for the determination of the diastereomers of difenacoum in blood and liver using high-performance liquid chromatography with fluorescence detection 620(1993)105

Difenzoquat

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Difloxacin

Determination of ciprofloxacin levels in chinchilla middle ear effusion and plasma by high-performance liquid chromatography with fluorescence detection 617(1993)329

Diffubenzuron

Determination of diflubenzuron residues in water by solid-phase extraction and quantitative high-performance thin-layer chromatography 643(1993)337

Diglycine

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Digoxigenin

On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65

Digoxin

On-line immunochemical detection in liquid chromatography using fluorescein-labelled antibodies 633(1993)65

1,2-O-Dihexadecyl-*rac*-glycerol-3-O-(3,5-dinitrophenyl)-carbamate

High-performance chiral displacement chromatographic separations in the normal-phase mode. II. Separation of the enantiomers of 1,2-O-dihexadecyl-*rac*-type naphthylalanine silica stationary phase 646(1993)259

Dihydroanthracenes

Quantitative comparisons of reaction products using gas chromatography-mass spectrometry and dual-isotope techniques 627(1992)193

3,4-Dihydro-2,2-dimethyl-2H-1-benzopyrans

Separation of the enantiomers of some potassium channel activators using an α_1 -acid glycoprotein column 623(1992)163

Dihydrometanicotine

Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49

2,3-Dihydro-2-oxobenzofuran

Direct liquid chromatographic separation of the enantiomers of a 1,3-dihydrophenylindol-2-one and of a 2,3-dihydro-2-oxobenzofuran derivative 623(1992)159

Dihydrophaseic acid

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

1,3-Dihydrophenylindol-2-one

Direct liquid chromatographic separation of the enantiomers of a 1,3-dihydrophenylindol-2-one and of a 2,3-dihydro-2-oxobenzofuran derivative 623(1992)159

2,5-Dihydroxybenzoic acid

Off-line coupling of capillary electrophoresis with matrix-assisted laser desorption mass spectrometry 647(1993)367

2,4-Dihydroxy-1,4-benzoxazin-3-one

Isolation and identification via high-performance liquid chromatography and thin-layer chromatography of benzoxazolinone precursors from *Consolida orientalis* flowers 609(1992)402

3,4-Dihydroxybenzylamine

Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

N,N'-(1,2-Dihydroxyethylene)bisacrylamide

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

3,4-Dihydroxymandelic acid

Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247

1,4-Dihydroxymidazolam

High-performance liquid chromatographic method for the enantiomeric separation of the chiral metabolites of midazolam 609(1992)395

9 α -11 β -Dihydroxy-15-oxo-2,3,18,19-tetranorprost-5-ene-1,20-dioic acid

Simplification of the mass spectrometric assay for the major urinary metabolite of prostaglandin D₂ 617(1993)124

3,4-Dihydroxyphenylacetaldehyde

Confirmation of a dopamine metabolite in parkinsonian brain tissue by gas chromatography-mass spectrometry 614(1993)205

3,4-Dihydroxyphenylacetic acid

Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339

Rapid and reliable high-performance liquid chromatographic method for analysing human plasma serotonin, 5-hydroxyindoleacetic acid, homovanillic acid and 3,4-dihydroxyphenylacetic acid 617(1993)227

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

L-3,4-Dihydroxyphenylalanine

Post-column immobilized tyrosinase reactor for determination of L-3,4-dihydroxyphenylalanine and L-tyrosine by high-performance liquid chromatography with fluorescence detection 648(1993)481

 α,ω -Dihydroxy polyethers

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

3,5-Dihydroxyvaleric methyl esters

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

1,25-Dihydroxyvitamin D

Advantages of paper chromatography as a preparative step in the assay of 1,25-dihydroxyvitamin D 621(1993)33

1,3-Di(4-imidazolino-2-methoxyphenoxy)propane

Determination of 1,3-di(4-imidazolino-2-methoxyphenoxy)propane in rat, dog and human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)61

Diketo esters

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Diltiazem

Determination of diltiazem hydrochloride in human serum by high-performance liquid chromatography 614(1993)261

High-performance liquid chromatographic determination of diltiazem and two of its metabolites in plasma using a short alkyl chain silanol deactivated column 615(1993)111

Direct enantiomeric separation of *cis*-(\pm)diltiazem in plasma by high-performance liquid chromatography with ovomucoid column 619(1993)87

Direct high-performance liquid chromatographic separation of the enantiomers of diltiazem hydrochloride and its 8-chloro derivative on a chiral ovomucoid column 633(1993)89

Dimethindene

Quantification of dimethindene in plasma by gas chromatography-mass fragmentography using ammonia chemical ionization 617(1993)318

High-performance liquid chromatographic method for the determination of dimethindene in urine 629(1993)89

Dimethindene maleate

Chiral separation of basic drugs using cyclodextrins as chiral pseudo-stationary phases in capillary electrophoresis 648(1993)267

(\pm)-6-[3-[(3,4-Dimethoxybenzyl)amino]-2-hydroxypropoxy]-2(1*H*)-quinolinone

Stereoselective high-performance liquid chromatographic assay for the determination of OPC-18790 enantiomers in human plasma and urine 620(1993)97

3-(3,4-Dimethoxyphenyl)alanine, N-acyl alkyl esters

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

N,N-Dimethylacetamide

Size-exclusion chromatography of cellulose and chitin using lithium chloride-N,N-dimethylacetamide as a mobile phase 635(1993)334

Dimethylacrylamide

Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333

Dimethylamine

Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191

Dimethyl- β -cyclodextrin

Liquid chromatographic determination of β -cyclodextrin derivatives based on fluorescence enhancement after inclusion complexation 614(1993)95

N,N-Dimethylformamide

Simultaneous determination of N,N-dimethylformamide, N-monomethylformamide and N-hydroxymethyl-N-methylformamide in rat plasma by capillary gas chromatography 615(1993)154

Unusual deuterium isotope effect on the retention of formamides in gas-liquid chromatography 641(1993)194

2,2-Dimethyl-5-hydroxy-6-acetylchromene

Determination of plumbagin by normal-phase high-performance liquid chromatography 637(1993)209

Dimethylnaphthalenes

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47

Dimethylphosphoric acid

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59

Dimethyl sulphide

Development of automated gas chromatographic-mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

2,2-Dimethyl-N-(2,4,6-trimethoxyphenyl)dodecanamide

Determination of 2,2-dimethyl-N-(2,4,6-trimethoxyphenyl)dodecanamide, a lipid regulator, in rat plasma and mesenteric lymph by reversed-phase high-performance liquid chromatography 613(1993)336

Diniconazole

Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231

N-(3,5-Dinitrobenzoyl) leucine amides

Chiral stationary phase design. Use of intercalative effects to enhance enantioselectivity 641(1993)11

Dinitrocarbanilide

High-performance liquid chromatographic method for the determination of the dinitrocarbanilide component of nicarbazin in eggs with on-line clean-up 613(1993)354

2,3-Dinor-6-oxoprostaglandin F_{1 α}

Assay of urinary 2,3-dinor-6-oxo prostaglandin F_{1 α} by gas chromatography-tandem mass spectrometry 622(1993)109

Diols

Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202

Dioxins

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography-high-resolution mass spectrometry 630(1993)297

Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in tire fire runoff oil 648(1993)213

1,3-Dioxolane alcohols

Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Dioxolanes

Determination of 3-chloropropanediol and related dioxolanes by gas chromatography 605(1992)134

Dipeptides

Batch dynamic adsorption of dipeptides onto reversed-phase silica gel 603(1992)27

Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1

Diphenhydramine

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Diphenylethanes

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

Diphenyl ether

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

2-[(Diphenylmethylsulphinyl)acetamide

Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19

Diphenyl sulphides

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

High-resolution gas chromatographic-mass spectrometric determination of neutral chlorinated aromatic sulphur compounds in stack gas samples 641(1993)309

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Diphosphonate

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Dipivefrin

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Di-N-n-propylamine

High-performance liquid chromatography procedure for the determination of purity of di-N-n-propylamine 623(1992)229

Diquat

Simultaneous determination of paraquat and diquat in human tissues by high-performance liquid chromatography 617(1993)119

Determination of paraquat and diquat by liquid chromatography–thermospray mass spectrometry 628(1993)235

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Disaccharides

Gas chromatographic retention of carbohydrate trimethylsilyl ethers. IV. Disaccharides 607(1992)221

Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography–mass spectrometry with an atmospheric pressure interface 647(1993)289

Disopyramide

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Dissolved organic carbon

Comparison of the determination of anions in dissolved organic carbon-loaded water samples by ion chromatography and photometric methods 640(1993)299

Disulphonated aluminium phthalocyanine

Characterisation of the photochemotherapeutic agent disulphonated aluminium phthalocyanine and its high-performance liquid chromatographic separated components 646(1993)345

Diterpenoids

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography–electrospray mass spectrometry 615(1993)273

Dithionite

Sulphur compounds. CLIX. Determination of dithionite ($S_2O_4^{2-}$) and hydroxymethanesulphinate ($HOCH_2SO_2^-$; Rongalite) by ion-pair chromatography 623(1992)174

Diuretics

Improved detection limits for screening of diuretics by coupled liquid chromatography and ultraviolet–visible spectrophotometry 612(1993)245

DMP 811

High-performance liquid chromatographic determination of a potent AII receptor antagonist (DMP 811) in plasma 620(1993)205

DN-2327

High-performance liquid chromatographic method for determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine 613(1993)105

Enantioselective determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine using high-performance liquid chromatography 613(1993)113

DNA

see also Special issue index

DNA

Simple multi-point detection method for high-performance capillary electrophoresis 604(1992)85

Effect of total percent polyacrylamide in capillary gel electrophoresis for DNA sequencing of short fragments. A phenomenological model 608(1992)143

Assay of deoxy-deazapurines in DNA by 3'-phosphorylation and two-dimensional thin-layer chromatography 612(1993)277

Simple chromatographic systems permitting both DNA purification and separation of 2'-deoxyribonucleoside 3'-monophosphates as substrates for ^{32}P -postlabelling studies 613(1993)257

Analytical procedures and quality assurance criteria for the determination of major and minor deoxynucleosides in fish tissue DNA by liquid chromatography–ultraviolet spectroscopy and liquid chromatography–thermospray mass spectrometry 615(1993)203

Comparison of properties of agarose for electrophoresis of DNA (Review) 618(1993)79

Methods for recovering nucleic acid fragments from agarose gels (Review) 618(1993)95

Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105

Southern and Northern analysis (Review) 618(1993)133

Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147

Checking of individuality by DNA profiling (Review)
618(1993)167

Quantitative analysis of enzymic digests of DNA using gel electrophoresis (Review) 618(1993)181

Field alternation gel electrophoresis — status quo (Review)
618(1993)223

Application of high-performance liquid chromatography for recognition of covalent nucleic acid modification with anticancer drugs (Review) 618(1993)251

Electrophoretic and chromatographic separation methods used to reveal interstrand crosslinking of nucleic acids (Review)
618(1993)277

Affinity chromatography with nucleic acid polymers (Review)
618(1993)315

Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149

Comparative study of capillary zone electrophoresis and high-performance liquid chromatography in the analysis of oligonucleotides and DNA 625(1992)331

High-performance liquid chromatographic–mass spectrometric analysis of *cis*-dichlorodiamineplatinum–DNA complexes using an ionspray interface 633(1993)119

Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229

Detection by capillary electrophoresis of restriction fragment length polymorphism. Analysis of a polymerase chain reaction-amplified product of the DXS 164 locus in the dystrophin gene 638(1993)277

Selectivity of the separation of DNA fragments by capillary zone electrophoresis in low-melting-point agarose sol 638(1993)283

High-performance liquid chromatography and capillary gel electrophoresis as applied to antisense DNA 638(1993)293

Mobility of single-stranded DNA as a function of cross-linker concentration in polyacrylamide capillary gel electrophoresis 645(1993)311

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

DNA adducts

Capillary electrophoresis of fluorescein–ethylenediamine–5'-deoxynucleotides 608(1992)171

Improved thin-layer chromatographic separation of ³²P-postlabeled DNA adducts 612(1993)295

Application of high-performance liquid chromatography for recognition of covalent nucleic acid modification with anticancer drugs (Review) 618(1993)251

High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography–electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35

Fraction collection after an optimized micellar electrokinetic capillary chromatographic separation of nucleic acid constituents 638(1993)363

DNA-modifying enzymes

Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147

DNA polymerase

Preparation of DNA polymerase from *Bacillus caldotenax* 639(1993)75

2,5-Dns-isoleucine

Capillary zone electrophoresis with time-resolved fluorescence detection using a diode-pumped solid-state laser 648(1993)245

Dobutamine

Rapid and sensitive assay of dobutamine in plasma by high-performance liquid chromatography and electrochemical detection 620(1993)164

Dodecane

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Dodecanone

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

Dodecylamine

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Dodecyl naphthyl urethanes

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Domperidone

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Dopamine

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

Determination of catecholamines in rat heart tissue and plasma samples by liquid chromatography with electrochemical detection, by B.-M. Eriksson and B.-A. Persson, *J. Chromatogr.*, 228 (1982) 143 612(1993)1

Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339

Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 617(1993)11

Determination of dopamine and its metabolites in microdialysates by capillary liquid chromatography with electrochemical detection 619(1993)111

Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

On-column detection in capillary zone electrophoresis with ion-selective microelectrodes in conical capillary apertures 633(1993)207

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Dopamine, metabolite

Confirmation of a dopamine metabolite in parkinsonian brain tissue by gas chromatography-mass spectrometry 614(1993)205

Dopamine agonist

Quantitative determination of the dopamine agonist lisuride in plasma using high-performance liquid chromatography with fluorescence detection 622(1993)33

Doping agents

Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203

Doxepin

Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135

On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209

Doxifluridine

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

Doxorubicin

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Doxorubicin-conjugated antibody

Capillary micellar electrokinetic, sequential multiwavelength chromatographic characterization of a chimeric monoclonal antibody-cytotoxin conjugate 635(1993)313

Droperidol

Simultaneous high-performance liquid chromatographic assay of droperidol and flunitrazepam in human plasma. Application to haemodilution blood samples collected during clinical anaesthesia 612(1993)269

Drotaverine

High-performance liquid chromatographic method for the determination of drotaverine in human plasma and urine 622(1993)93

Drugs

Semi-automated solid-phase extraction procedure for drug screening in biological fluids using the ASPEC system in combination with Clean Screen DAU columns 613(1993)289

Column-switching techniques for high-performance liquid chromatography of drugs in biological samples (Review) 619(1993)177

Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199

Evaluation of capillary supercritical fluid chromatography with mass spectrometric detection for the analysis of a drug (mebeverine) in a dog plasma matrix 622(1993)209

Strategies for the monitoring of drugs in body fluids by micellar electrokinetic capillary chromatography 636(1993)137

Drugs, basic

Reproducible and high-speed separation of basic drugs by capillary zone electrophoresis 612(1993)172

Dyes

Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55

Thermospray, particle beam and electrospray liquid chromatography-mass spectrometry of azo dyes 627(1992)173

High-performance liquid chromatographic determination of methanesulphonic acid as a method for the determination of hydroxyl radicals 630(1993)187

Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161

Chemical reduction of FD&C Yellow No. 5 to determine combined benzidine 635(1993)160

Role of capillary electrophoresis in specialty chemical research 636(1993)153

Capillary zone electrophoresis in the analysis of dyes and other compounds employed in the dye-manufacturing and dye-using industries 640(1993)413

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Pseudo-electrochromatography-negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375

E

E-1100

Determination of a novel β -lactam antibiotic (E-1100) in rat plasma by high-performance liquid chromatography 620(1993)153

Ecdysone

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Ecdysteroids

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Boronic esters as derivatives for supercritical fluid chromatography of ecdysteroids 639(1993)281

Phytoecdysteroid analysis by high-performance liquid chromatography-thermospray mass spectrometry 641(1993)81

EDTA

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Elsamitruicin

Determination of Elsamitruicin (BMY-28090) in plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)249

EM523

Sensitive high-performance liquid chromatographic determination of EM523, a new erythromycin derivative, in human plasma and urine with ultraviolet detection using column switching 616(1993)144

Emodin

Isolation and determination of alizarin in cell cultures of *Rubia tinctorum* and emodin in *Dermocybe sanguinea* using solid-phase extraction and high-performance liquid chromatography 630(1993)423

Enalapril maleate

Determination and rotamer separation of enalapril maleate by capillary electrophoresis 626(1992)251

N-6-(*Endo*-2-norbornyl)-9-methyladenine

Liquid chromatographic chiral separations of the N-6-(*endo*-2-norbornyl)-9-methyladenine enantiomers 641(1993)39

Endonucleases

Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151

Endopolygalacturonase

Chromogenic substrate for *endo*-polygalacturonase detection in gels 603(1992)243

β -Endorphins

Analysis of human β -endorphin 28-31 (melanotropin potentiating factor) and analogues by high-performance liquid chromatography of their 9-fluorenylmethoxycarbonyl derivatives 615(1993)37

Methionine enkephalin-like immunoreactivity, substance P-like immunoreactivity and β -endorphin-like immunoreactivity *post-mortem* stability in rat pituitary 616(1993)175

Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311

Off-line coupling of capillary electrophoresis with matrix-assisted laser desorption mass spectrometry 647(1993)367

Enkephalins

Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13

Enoxacin

Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105

Enterodiol

Quantification of mammalian lignans in biological fluids using gas chromatography with ion mobility detection 617(1993)173

Enterolactone

Quantification of mammalian lignans in biological fluids using gas chromatography with ion mobility detection 617(1993)173

Enzyme inhibitors

Normal-phase high-performance liquid chromatographic determination of epristeride, a prostatic steroid 5 α -reductase enzyme inhibitor, in human plasma 631(1993)251

Enzymes

see also Proteins

Chromogenic substrate for *endo*-polygalacturonase detection in gels 603(1992)243

High-performance capillary electrophoretic analysis of chloramphenicol acetyl transferase activity 603(1992)247

Thiophilic interaction chromatography of sweet potato β -amylase 604(1992)103

Purification, characterization and crystallization of recombinant HIV-1 reverse transcriptase 604(1992)157

Isolation and characterization of catalase from *Penicillium chrysogenum* 604(1992)177

Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Capillary electrophoretic determination of the protease Savinase in cultivation broth 608(1992)205

Ultramicro enzyme assays in a capillary electrophoretic system 608(1992)217

Biocytin synthetase activity in human milk as assessed by high-performance liquid chromatography 612(1993)156

Assay of phenylethanolamine N-methyltransferase activity using high-performance liquid chromatography with ultraviolet absorbance detection 613(1993)51

Direct injection assay of angiotensin-converting enzyme by high-performance liquid chromatography using a shielded hydrophobic phase column 613(1993)145

Preparation of the apoenzyme and holoenzyme forms of human 17 β -hydroxysteroid dehydrogenase 614(1993)159

Assay of tryptophan 2,3-dioxygenase using liver slices and high-performance liquid chromatography 614(1993)227

New method for guanase activity measurement by high-performance liquid chromatography 616(1993)25

High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-450E1 activity, in human liver microsomes 616(1993)73

High-recovery protein purification by high-performance gel-permeation chromatography: application to human serum biotinidase 616(1993)327

Improved high-performance liquid chromatographic determination of biotinidase activity with biotinyl-6-aminoquinoline as substrate 617(1993)29

Activity gel and activity blotting methods for detecting DNA-modifying (repair) enzymes (Review) 618(1993)147

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

Characterization of recombinant human extracellular superoxide dismutase 621(1993)139

High-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in serum: a tool for indirect evaluation of cytochrome P450E1 activity in humans 622(1993)79

Improved method for the routine analysis of acetylcholine release *in vivo*: quantitation in the presence and absence of esterase inhibitor 622(1993)125

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13

Scale-up of recombinant protein purification by hydrophobic interaction chromatography 625(1992)33

Fast high-performance liquid chromatographic purification of *Saccharomyces cerevisiae* phosphoenolpyruvate carboxykinase 625(1992)47

Angiotensinase A (aminopeptidase A): properties of chromatographically purified isoforms from human kidney 625(1992)73

Heterogeneous binding of aldolase to phosphocellulose. Interpretation in terms of a "concerted cluster" model of multivalent affinity 627(1992)145

Purification, subunit structure and inhibitor profile of cathepsin A 627(1992)153

Purification and determination of the binding site of lactate dehydrogenase from chicken breast muscle on immobilized ferric ions 627(1992)163

Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151

Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281

High-performance liquid chromatographic determination of PZ-peptidase activity 635(1993)81

Purification of the cytochrome P-450 enzyme geraniol 10-hydroxylase from cell cultures of *Catharanthus roseus* 635(1993)237

Monitoring tripeptidase activity using capillary electrophoresis. Comparison with the ninhydrin assay 636(1993)63

Increased yield of homogeneous HIV-1 reverse transcriptase (p66/p51) using a slow purification approach 639(1993)67

Preparation of DNA polymerase from *Bacillus caldotenax* 639(1993)75

Purification of two proteinases from *Aspergillus terreus* by affinity chromatography 639(1993)346

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25

Isolation of chitin deacetylase from *Mucor rouxii* by immunoaffinity chromatography 644(1993)35

Interaction of catechol-2,3-dioxygenase of *Pseudomonas putida* with immobilized histidine and histamine 644(1993)289

High-performance gel-permeation chromatographic analysis of protein aggregation. Application to bovine carbonic anhydrase 645(1993)101

Separation of isoforms of *Serratia marcescens* nuclease by capillary electrophoresis 645(1993)353

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature 646(1993)207

Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235

Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289

Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a "bio-engineered" variant by high-performance liquid chromatography–frit fast atom bombardment mass spectrometry 647(1993)301

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367

EO9

Sensitive isocratic high-performance liquid chromatographic determination of a novel indoloquinone cytotoxic drug (EO9) in human plasma and urine 615(1993)309

Eosin Y

Optimization of capillary zone electrophoresis–electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Ephedrine

Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269

Direct determination of ephedrine and norephedrine in human urine by capillary zone electrophoresis 622(1993)103

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Determination of ephedrines in urine by high-performance liquid chromatography 631(1993)201

Theory of chiral separation in capillary electrophoresis 636(1993)57

Determination of ephedrine and pseudoephedrine in Chinese herbal preparations by capillary electrophoresis 637(1993)219

Epiberberine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Epicatechin

Characterization of flavonoids by liquid chromatography–tandem mass spectrometry 629(1993)389

Epicatechin 3-O-gallate

Characterization of flavonoids by liquid chromatography–tandem mass spectrometry 629(1993)389

Epigallocatechin

Characterization of flavonoids by liquid chromatography-tandem mass spectrometry 629(1993)389

Epigallocatechin 3-O-gallate

Characterization of flavonoids by liquid chromatography-tandem mass spectrometry 629(1993)389

Epinephrine

Quantitation of *l*-epinephrine and determination of the *d*-/*l*-epinephrine enantiomer ratio in a pharmaceutical formulation by capillary electrophoresis 603(1992)298

Determination of catecholamines in rat heart tissue and plasma samples by liquid chromatography with electrochemical detection, by B.-M. Eriksson and B.-A. Persson, *J. Chromatogr.*, 228 (1982) 143 612(1993)1

Plasma catecholamine levels in children 617(1993)304

Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Epinine

Presence of N-methyl dopamine in parkinsonian and normal human brains 613(1993)1

Epirubicin

Capillary isotachophoretic analyte focusing for capillary electrophoresis with mass spectrometric detection using electrospray ionization 627(1992)263

Epoxydes

Liquid chromatographic determination of chiral epoxydes by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29

Epristeride

Normal-phase high-performance liquid chromatographic determination of epristeride, a prostatic steroid 5 α -reductase enzyme inhibitor, in human plasma 631(1993)251

Equ.c1

Hydrophobic interaction chromatography for isolation and purification of *Equ.c1*, the horse major allergen 621(1993)23

Ergometrine

High-performance liquid chromatography of ergometrine and preliminary pharmacokinetics in plasma of men 613(1993)158

Erythrodiol

Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179

Erythromycin

Evaluation of silanol-deactivated silica-based reversed phases for liquid chromatography of erythromycin 630(1993)117

Erythromycin A

Determination of erythromycin A by liquid chromatography and electrochemical detection, with application to salmon tissue 619(1993)63

Essential oils

Possible value for the gas chromatographic analysis of essential oils of some unusual phase commercial capillaries 626(1992)294

Estazolam

Rapid and sensitive gas chromatographic determination of estazolam 621(1993)102

Estolides

High-performance liquid chromatographic investigations of stillingia oil 603(1992)165

Estragole

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Estrogen receptors

Use of automated smoothing and deconvolution procedures for the determination of human breast cancer estrogen and progesterone receptor isoforms, after high-performance size-exclusion chromatography 615(1993)23

Estrogens

Determination of estrogens in plasma by high-performance liquid chromatography after pre-column derivatization with 2-(4-carboxyphenyl)-5,6-dimethylbenzimidazole 616(1993)317

Computer-assisted optimization of the gas chromatographic separation of equine estrogens 617(1993)19

Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177

Ethanolamine

Post-column derivatization of carbohydrates with ethanolamine-boric acid prior to their detection by high-performance liquid chromatography 607(1992)191

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Ether adducts

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Ethers

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Ethiofencarb

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Ethionamide

Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285

Ethionic acid

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Ethosuccimide

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

7-Ethoxycoumarin O-deethylase

Enzyme-based high-performance liquid chromatography stationary phases as metabolic reactors. Immobilization of non-solubilized rat liver microsomes on an immobilized artificial membrane high-performance liquid chromatography support 646(1993)289

Ethylparathion

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

Ethyl acetate

Use of methyl and ethyl acetate as organic modifiers in reversed-phase high-performance liquid chromatography. Application to impurity control in bulk drug steroids 607(1992)175

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

Ethylamines

Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191

Chiral recognition of enantiomeric amides on a diamide chiral stationary phase by gas chromatography 634(1993)345

2-Ethylaniline

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Ethylbenzene

Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography-ion trap mass spectrometry 625(1992)247

Ethyl chloroformate

Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289

N,N'-1,2-Ethylenediylbis(cysteine), diethyl ester

Liquid chromatographic separation of radiopharmaceutical ligand enantiomers 635(1993)203

Ethylene glycol

Simultaneous determination of ethylene glycol, propylene glycol, 1,3-butylene glycol and 2,3-butylene glycol in human serum and urine by wide-bore column gas chromatography 619(1993)251

Ethylene oxide

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Ethylenethiourea

Determination of ethylenethiourea in water samples by gas chromatography with alkali flame ionization detection and mass spectrometric confirmation 643(1993)163

Ethyl ester dienes

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Ethyl ester enones

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

(2-Ethylhexyl) dihydrogenphosphate

Analytical capillary isotachopheresis of bis(2-ethylhexyl) hydrogenphosphate and 2-ethylhexyl dihydrogenphosphate 639(1993)317

Ethyl *p*-hydroxybenzoate

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

1,1'-Ethylidenebis(L-tryptophan)

Separation and isolation of trace impurities in L-tryptophan by high-performance liquid chromatography 630(1993)147

Ethylmercury

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

Ethylmorphine

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Ethyl parathion

Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37

4-Ethyl-2-propyl-1-[(2'-tetrazol-5-yl)biphenyl-4-yl)methyl]-imidazole-5-carboxylic acid

High-performance liquid chromatographic determination of a potent AII receptor antagonist (DMP 811) in plasma 620(1993)205

Ethynylestradiol

Rapid high-performance liquid chromatographic assay of ethynylestradiol in rabbit plasma 619(1993)143

Etodolac

Limited extent of stereochemical conversion of chiral non-steroidal anti-inflammatory drugs induced by derivatization methods employing ethyl chloroformate 616(1993)59

Evaluation of the stereoselective metabolism of the chiral analgesic drug etodolac by high-performance liquid chromatography 621(1993)199

Etoposide

Determination of etoposide in blood by liquid chromatography with electrochemical detection 621(1993)110

Eudistomins

Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223

Europium

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

Exemestane

Determination of exemestane, a new aromatase inhibitor, in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)225

Explosives

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Explosive residue analysis by capillary electrophoresis and ion chromatography 602(1992)241

Analysis of the explosive 2,4,6-trinitrophenylmethylnitramine (tetryl) in bush bean plants 630(1993)167

Determination of explosives residues in soils by micellar electrokinetic capillary chromatography and high-performance liquid chromatography. A comparative study 638(1993)349

Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography-electrochemical detection 643(1993)107

Determination of RDX, 2,4,6-trinitrotoluene and other nitroaromatic compounds by high-performance liquid chromatography with photodiode-array detection 645(1993)89

F**Factor VIII**

Application of a new statistical approach to optimize the immunopurification of antihemophilia A factor 612(1993)49

Factor IX

Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1

Fatty acid ethyl ethers

Flame ionization detector responses to ethyl esters of sand eel (*Ammodytes lancea*) fish oil compared for different gas and supercritical fluid chromatographic systems 648(1993)221

Fatty acid glycerol esters

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Fatty acid methyl esters

Separation of unsaturated fatty acid methyl esters by packed capillary supercritical fluid chromatography. Comparison of different column packings 605(1992)263

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Long-chain fatty acids esterified by action of alkyl chloroformates and analysed by capillary gas chromatography 615(1993)334

Preparation of methyl esters of fatty acids with trimethylsulphonium hydroxide—an appraisal 630(1993)438

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag^+ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Fatty acids

see also Carboxylic acids and Organic acids

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography–mass spectrometry 605(1992)281

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

Fatty acid composition of human milk triglyceride species. Possible consequences for optimal structures of infant formula triglycerides 616(1993)9

Gas chromatographic whole-cell fatty acid analysis as an aid for the identification of mixed mycobacterial cultures 617(1993)299

2-(4-Hydrazinocarbonylphenyl)-4,5-diphenylimidazole as a versatile fluorescent derivatization reagent for the high-performance liquid chromatographic analysis of free fatty acids 619(1993)1

Method for isolation of non-esterified fatty acids and several other classes of plasma lipids by column chromatography on silica gel 619(1993)9

Combined enzymic and chromatographic techniques to determine specific radioactivity in free and triglyceride fatty acid plasma fractions 619(1993)21

Automated headspace gas chromatographic analysis of faecal short-chain fatty acids 621(1993)7

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Quantitation of monohydroxy fatty acids by high-performance liquid chromatography with fluorescence detection 622(1993)147

High-resolution separation of polyunsaturated fatty acids by argentation thin-layer chromatography 623(1992)403

Gas chromatography of fatty acids (Review) 624(1992)37

Determination of fatty acids in fish oil dietary supplements by capillary liquid chromatography with laser-induced fluorescence detection 627(1992)87

Correlation of reversed-phase high-performance liquid chromatography and gas–liquid chromatography for fatty acid compositions of some vegetable oils 629(1993)237

Determination of volatile fatty acids in landfill leachates by high-performance liquid chromatography 629(1993)394

Chromatographic method verification by means of three-dimensional, multivariate visualization 631(1993)1

Liquid chromatography–mass spectrometry of fatty acids including hydroxy and hydroperoxy acids as their 3-methyl-7-methoxy-1,4-benzoxazin-2-one derivatives 639(1993)165

Fatty acids, acetylenic

Gas chromatography–mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

Fatty acids, chlorinated

Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection 625(1992)257

Fatty acids, polyunsaturated

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Fatty acids, very long chain

Rapid method for the enrichment of very long-chain fatty acids from microorganisms 636(1993)249

Fatty alcohol oxyethylates

Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141

Fault gases

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

FD&C Yellow No. 5

Chemical reduction of FD&C Yellow No. 5 to determine combined benzidine 635(1993)160

Felbamate

Determination of the anticonvulsant felbamate and its three metabolites in brain and heart tissue of rats 614(1993)285

Simultaneous determination of felbamate and four metabolites in rat cerebrospinal fluid by high-performance liquid chromatography 622(1993)223

Simultaneous determination of felbamate and three metabolites in rat and dog plasmas by high-performance liquid chromatography 622(1993)229

Felbamate monocarbamate

Simultaneous determination of felbamate and four metabolites in rat cerebrospinal fluid by high-performance liquid chromatography 622(1993)223

Simultaneous determination of felbamate and three metabolites in rat and dog plasmas by high-performance liquid chromatography 622(1993)229

Fenbufen

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Fenbutatin oxide

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Fenitrothion

Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

Fenocarb

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Fenoprofen

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenoprofen and ibuprofen 635(1993)291

Fentin

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Ferulic acid

Determination of alkali-soluble phenolic monomers in grasses after separation by thin-layer chromatography 604(1992)290

α -Fetoprotein

Lectin affinity electrophoresis of α -fetoprotein. Increased specificity and sensitivity as a marker of hepatocellular carcinoma 604(1992)91

Fetuin

High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

Fibrinogen

Determination of fibrinogen in plasma by high-performance immunoaffinity chromatography 615(1993)67

Flavanone glycosides

Column liquid chromatographic determination of flavanone glycosides in *Citrus* Application to grapefruit and sour orange juice adulterations 634(1993)129

Flavanones

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic-mass spectrometric data 634(1993)350

Flavones

Chromatography of tea constituents (Review) 624(1992)293

Analysis of sugarcane flavonoids by capillary zone electrophoresis 634(1993)107

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic-mass spectrometric data 634(1993)350

Flavonoid aglycones

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

Flavonoid-O-glycosides

Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. I. Separation of flavonoid-7-O-glycosides differing in their flavonoid aglycone 628(1993)153

Borate complexation of flavonoid-O-glycosides in capillary electrophoresis. II. Separation of flavonoid-3-O-glycosides differing in their sugar moiety 628(1993)161

Flavonoids

Identification and determination of the flavonoids from *Ginkgo biloba* by high-performance liquid chromatography 605(1992)41

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

Characterization of flavonoids by liquid chromatography-tandem mass spectrometry 629(1993)389

Determination of baicalin and puerarin in traditional Chinese medicinal preparations by high-performance liquid chromatography 631(1993)241

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

High-performance liquid chromatography of honey flavonoids 634(1993)41

Analysis of sugarcane flavonoids by capillary zone electrophoresis 634(1993)107

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic–mass spectrometric data 634(1993)350

Flavonol glycosides

High-performance liquid chromatography and micellar electrokinetic chromatography of flavonol glycosides from *Tilia* 638(1993)357

Flavonols

Chromatography of tea constituents (Review) 624(1992)293

Resolution of complex mixtures of flavonoid aglycones by analysis of gas chromatographic–mass spectrometric data 634(1993)350

Flavoxate

Determination of 3-methylflavone-8-carboxylic acid, the main metabolite of flavoxate, in human urine by capillary electrophoresis with direct injection 612(1993)287

Florfenicol

Simultaneous determination of residues of florfenicol and the metabolite florfenicol amine in fish tissues by high-performance liquid chromatography 616(1993)161

Florfenicol amine

Simultaneous determination of residues of florfenicol and the metabolite florfenicol amine in fish tissues by high-performance liquid chromatography 616(1993)161

Flufenamic acid

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Flumazenil

Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154

Liquid chromatography–mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Flumethasone

Immunoaffinity chromatography combined with gas chromatography–negative ion chemical ionisation mass spectrometry for the confirmation of flumethasone abuse in the equine 614(1993)77

Flunitrazepam

Simultaneous high-performance liquid chromatographic assay of droperidol and flunitrazepam in human plasma. Application to haemodilution blood samples collected during clinical anaesthesia 612(1993)269

Fluorene

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

9-Fluoreneacetate

Direct determination of adamantanamine in plasma and urine with automated solid phase derivatization 619(1993)93

1-(9-Fluorenyl)ethylchloroformate

Liquid chromatographic chiral separations of the N-6-(endo-2-norbornyl)-9-methyladenine enantiomers 641(1993)39

N-Fluorenylmethoxycarbonyl-L-proline, hydroxybenzotriazole ester

Novel polymeric reagent for synthesizing 9-fluorenylmethoxycarbonyl L-prolinyl derivatives for chiral high-performance liquid chromatography of amino acids 603(1992)279

Fluorescein

Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315

Automated isotachophoretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155

Fluorescein–ethylene diamine conjugates

Capillary electrophoresis of fluorescein–ethylenediamine-5'-deoxynucleotides 608(1992)171

Fluorescein isothiocyanate

Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281

Automated isotachophoretic analyte focusing for capillary zone electrophoresis in a single capillary using hydrodynamic back-pressure programming 641(1993)155

Fluoride

Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Determination of anions in an epoxy curing agent by ion chromatography 640(1993)355

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Fluorinated amino acids

Gas chromatographic separation of diastereoisomeric and enantiomeric forms of some fluorinated amino acids on glass capillary columns 639(1993)273

Fluoropyrimidine derivatives

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

Fluoroquinolones

Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105

5-Fluorotryptophan

Adsorption chromatography on cellulose. VII. Chiral separations on cellulose with aqueous solvents 604(1992)55

5-Fluorouracil

Determination of 5-fluorouracil in vitreous gel and liquid by high-performance liquid chromatography 607(1992)183

Determination of leucovorin and 5-fluorouracil in plasma by high-performance liquid chromatography 612(1993)77

Solid-phase extraction of fluoropyrimidine derivatives on a copper-modified strong cation exchanger: determination of doxifluridine, 5-fluorouracil and its main metabolites in serum by high-performance liquid chromatography with ultraviolet detection 617(1993)71

Fluoxetine

Determination of fluoxetine and norfluoxetine in human plasma by capillary gas chromatography with electron-capture detection 614(1993)175

Fluparoxan

Peak homogeneity determination and micro-preparative fraction collection by capillary electrophoresis for pharmaceutical analysis 633(1993)221

High-speed determination of drug related impurities by capillary electrophoresis employing commercial instrumentation 636(1993)125

Validation of a capillary electrophoresis method for the enantiomeric purity testing of fluparoxan 645(1993)193

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Flurazepam

Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154

Flurbiprofen

Limited extent of stereochemical conversion of chiral non-steroidal anti-inflammatory drugs induced by derivatization methods employing ethyl chloroformate 616(1993)59

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Fluvastatin

High-performance liquid chromatographic method for the determination of fluvastatin in human plasma 614(1993)307

Folates

Reversed-phase high-performance liquid chromatographic method for the quantitation of endogenous folate catabolites in rat urine 614(1993)59

Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39

Folic acid

Determination of folic acid in an elemental diet by high-performance liquid chromatography with UV detection 609(1992)399

Food additives

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Formaldehyde

Determination of formaldehyde in air by chemisorption on glass filters impregnated with 2,4-dinitrophenylhydrazine using gas chromatography with thermionic specific detection 626(1992)284

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Formamides

Unusual deuterium isotope effect on the retention of formamides in gas-liquid chromatography 641(1993)194

o-Formyltetrahydrofolate

Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39

Fosfomycin

Fosfomycin determination in serum by capillary zone electrophoresis with indirect ultraviolet detection 616(1993)311

Fucan

Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A-Sephrose 615(1993)215

Fullerenes

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Retention of C₆₀ and C₇₀ fullerenes on reversed-phase high-performance liquid chromatographic stationary phases 625(1992)131

Separation of C₆₀ and C₇₀ on polystyrene gel with toluene as mobile phase 628(1993)23

Evaluation of stationary phases for the separation of buckminsterfullerenes by high-performance liquid chromatography 639(1993)129

Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33

Preparative separation of higher fullerenes by high-performance liquid chromatography on a tetrachlorophthalimidopropyl-modified silica column 644(1993)188

High-performance liquid chromatographic separation of fullerenes (C₆₀ and C₇₀) using chemically bonded γ -cyclodextrin as stationary phase 644(1993)396

Dimethoxyphenylpropyl bonded silica phase for higher fullerenes separation by high-performance liquid chromatography 648(1993)71

Analysis of C₆₀ and C₇₀ fullerenes by high-performance liquid chromatography 648(1993)491

Fumarate

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Fumaric acid esters

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Fungicides

see Pesticides

2-Furaldehyde

Separation and determination of 5-hydroxymethyl-2-furaldehyde and 2-furaldehyde in fruit juices by micellar electrokinetic capillary chromatography with direct sample injection 624(1992)503

Furans

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91

 ϵ -N-2-Furanylmethyl-L-lysine

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

Furfurylamine

Determination of furan-based amines in reaction mixtures by gas chromatography 644(1993)383

Furosemide

Simple microscale high-performance liquid chromatographic method for determination of furosemide in neonatal plasma 612(1993)161

Automated high-performance liquid chromatographic method for determination of furosemide in dog plasma 617(1993)339

Furosine

Stability of furosine during ion-exchange chromatography in comparison with reversed-phase high-performance liquid chromatography 635(1993)151

Fusion protein

Effect of different amounts of the non-ionic detergents C₁₀E₅ and C₁₂E₅ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37

G**D-Galactonic acid**

Separation of D-galactonic and D-gluconic acids by capillary zone electrophoresis 644(1993)412

Galactosamine

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Galactosylceramide

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography-mass spectrometry 605(1992)281

Galangin

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

Gangliosides

Determination of gangliosides by high-performance liquid chromatography with photodiode-array detection 605(1992)221

Study of lectin-ganglioside interactions by high-performance liquid affinity chromatography 646(1993)327

Genistein

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Geraniol

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Geraniol 10-hydroxylase

Purification of the cytochrome P-450 enzyme geraniol 10-hydroxylase from cell cultures of *Catharanthus roseus* 635(1993)237

Germanes

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182

Germanium

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Giberellins

High-performance liquid chromatography-thermospray mass spectrometry of giberellins 603(1992)157

Gingerols

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Ginkgolides

Use of liquid chromatography-thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147

Ginseng saponins

Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79

Ginsenosides

Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79

Globin

Capillary electrophoresis of hemoglobins and globin chains 608(1992)225

 β -Glucan

Size-exclusion chromatographic determination of β -glucan with postcolumn reaction detection 632(1993)105

Glucodigifucoside

Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319

Glucodiglucomethyloside

Separation of cardiac glycosides by micellar electrokinetic capillary electrophoresis 635(1993)319

Gluconate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

D-Gluconic acid

Separation of D-galactonic and D-gluconic acids by capillary zone electrophoresis 644(1993)412

Glucooligosaccharides

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Glucosamine

Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93

High-performance liquid chromatographic quantitation of phenylthiocarbamyl muramic acid and glucosamine from bacterial cell walls 632(1993)63

Glucose

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Simultaneous determination of glucose and 1-deoxyglucose in serum by anion-exchange chromatography with an immobilized pyranose oxidase reactor 620(1993)9

α -1,4-Glucose

Recent progress in high-performance anion-exchange chromatography–thermospray mass spectrometry of oligosaccharides 647(1993)319

Glucose-6-phosphate dehydrogenase

Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55

Ultramicro enzyme assays in a capillary electrophoretic system 608(1992)217

Glucose polymers

Determination of the impurity profile of γ -cyclodextrin by high-performance liquid chromatography 625(1992)157

Glucosinolates

Factors influencing the separation and quantitation of intact glucosinolates and desulphoglucosinolates by micellar electrokinetic capillary chromatography 608(1992)363

Glucuronides

Identification of radiolabeled metabolites of nicotine in rat bile. Synthesis of *S*-(-)-nicotine N-glucuronide and direct separation of nicotine-derived conjugates using high-performance liquid chromatography 621(1993)49

Glucuronides, aromatic

Pseudo-electrochromatography–negative-ion electrospray mass spectrometry of aromatic glucuronides and food colours 647(1993)375

Glufosinate

Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography–ion-trap mass spectrometry 637(1993)167

Glutamate

Monitoring excitatory amino acid release *in vivo* by microdialysis with capillary electrophoresis–electrochemistry 608(1992)189

Glutamine

Determination of glutamine and α -ketoglutarate concentration and specific activity in plasma using high-performance liquid chromatography 620(1993)33

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

γ -L-Glutamyl-S-alk(en)yl-L-cysteines

Reversed-phase high-performance liquid chromatography of S-alk(en)yl-L-cysteine derivatives in *Allium sativum* including the determination of (+)-S-allyl-L-cysteine sulphoxide, γ -L-glutamyl-S-allyl-L-cysteine and γ -L-glutamyl-S-(*trans*-1-propenyl)-L-cysteine 625(1992)183

γ -Glutamylamines

Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography–negative-ion chemical ionisation mass spectrometry 617(1993)11

Glutathione transferases

Rapid method for the determination of glutathione transferase isoenzymes in crude extracts 609(1992)141

Glutethimide

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Glycans

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Glycerol

Determination of glycerol in bacterial cell wall teichoic acid by high-performance liquid chromatography 607(1992)1

Determination of glycerol in wines by high-performance liquid chromatography: comparison with enzymatic method 623(1992)43

Glyceryl diethers

High-performance liquid chromatographic determination of the enantiomeric excess of 1,3-glyceryl diethers obtained by stereoselective catalytic reduction 604(1992)197

Glycidol

Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Glycidyl esters

Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Glycoconjugates

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Glycolipids

Identification and determination of individual sphingolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

N-Glycolylneuraminic acid

Determination of N-acetylneuraminic acid and N-glycolylneuraminic acid in glycoproteins by high-performance liquid chromatography without derivatization 612(1993)145

Glycopeptides

High-performance liquid chromatography of oligosaccharide alditols and glycopeptides on a graphitized carbon column 609(1992)125

Determination of amino sugars in synthetic glycopeptides during the conditions of amino acid analysis utilizing precolumn derivatization and high-performance liquid chromatographic analysis 637(1993)43

Use of a porous graphitised carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317

Glycoprotein-N-glycans

Analytical technique for studying the structure of glycoprotein N-glycans 646(1993)227

Glycoprotein hormones

High-performance liquid chromatography of human glycoprotein hormones 631(1993)261

Glycoproteins

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Capillary electrophoretic separation of recombinant granulocyte-colony-stimulating factor glycoforms 630(1993)442

High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19

Structural characterization of glycoprotein digests by microcolumn liquid chromatography-ionspray tandem mass spectrometry 632(1993)45

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

Comparison of two commercially available systems for the electrophoretic separation of alkaline phosphatase isoenzymes 646(1993)235

Glycosaminoglycans

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Glycosaminoglycans and proteins: different behaviours in high-performance size-exclusion chromatography 630(1993)390

Determination of the average molecular size of glycosaminoglycans by fast protein liquid chromatography 637(1993)91

Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography-mass spectrometry with an atmospheric pressure interface 647(1993)289

Glycosides

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Chromatography of tea constituents (Review) 624(1992)293

Reversed-phase high-performance liquid chromatography of the cardiac glycoside LNF-209 with refractive index detection 631(1993)221

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Analysis of plant extracts by multiple development thin-layer chromatography 646(1993)434

Determination of saponins in crude plant extracts by liquid chromatography-thermospray mass spectrometry 647(1993)137

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Glycosphingolipids

Determination of gangliosides by high-performance liquid chromatography with photodiode-array detection 605(1992)221

18 β -Glycyrrhetic acid

Determination of 18 β -glycyrrhetic acid in biological fluids from humans and rats by solid-phase extraction and high-performance liquid chromatography 620(1993)73

Glyphosate

Liquid chromatography and postcolumn indirect detection of glyphosate 602(1992)197

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59

Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography-ion-trap mass spectrometry 637(1993)167

Gold, colloidal

Application of colloidal gold for characterization of supports used in size-exclusion chromatography 605(1992)193

Gold cyanide

Determination of gold(I) and silver(I) cyanide in ores by capillary zone electrophoresis 635(1993)127

Gonadorelin

Identification of gonadorelin (LHRH) derivatives: comparison of reversed-phase high-performance liquid chromatography and micellar electrokinetic chromatography 636(1993)87

Gonadotropin agonist antibodies

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Gonadotropin antagonist antibodies

Affinity chromatographic separation of gonadotropic hormone agonist and antagonist antibodies. Implications for structure, immunological and biological properties of glycoproteins 604(1992)171

Granulocyte colony-stimulating factor

Capillary electrophoretic separation of recombinant granulocyte-colony-stimulating factor glycoforms 630(1993)442

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Mapping of the antibody- and receptor-binding domains of granulocyte colony-stimulating factor using an optical biosensor. Comparison with enzyme-linked immunosorbent assay competition studies 646(1993)159

Growth factor, platelet derived

Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165

Growth hormones

Purification of growth hormones by reversed-phase high-performance liquid chromatography 613(1993)326

Separation of oxidized human growth hormone variants by reversed-phase high-performance liquid chromatography. Effect of mobile phase pH and organic modifier 625(1992)207

Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37

Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169

Guaifenesin

Validation of improved methods for high-performance liquid chromatographic determination of phenylpropanolamine, dextromethorphan, guaifenesin and sodium benzoate in a cough-cold formulation 641(1993)241

Guanase

New method for guanase activity measurement by high-performance liquid chromatography 616(1993)25

Guanine

Equipment for multifunctional use in high-performance capillary electrophoresis 638(1993)147

High-performance liquid chromatography of guanine and its nucleosides and nucleotides by pre-column fluorescence derivatization with phenylglyoxal reagent 641(1993)235

Guanosine

Determination of acyclovir by ultrafiltration and high-performance liquid chromatography 619(1993)342

Guthion

Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

H

Haematoporphyrin

Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes 646(1993)397

Haemoglobin

Immobilized hemoglobin in the purification of hemoglobin-based oxygen carriers 604(1992)117

Capillary electrophoresis of hemoglobins and globin chains 608(1992)225

Solid-phase extraction and gas chromatographic-mass spectrometric determination after hydrolysis of 2-aminofluorene haemoglobin adducts in blood of rats 619(1993)215

New ultra-micro high-performance liquid chromatographic method for determining the γ chain composition of hemoglobin F in normal adults 620(1993)183

Polymer- and surfactant-coated capillaries for isoelectric focusing 632(1993)185

Manipulation of electroosmotic flow in capillary electrophoresis 636(1993)21

Separation and tryptic digest mapping of normal and variant haemoglobins by capillary electrophoresis 636(1993)69

Haemoglobin, human foetal

The M_{γ} chain of human fetal hemoglobin is an A_{γ} chain with an *in vitro* modification of γ 141 leucine to hydroxyleucine 617(1993)37

Halides

Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385

Haloacetates

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

Halocarbons

Use of adsorbents to collect selected halocarbons and hydrohalocarbons of environmental interest from large air volumes 642(1993)123

Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239

Analysis of chlorofluorocarbon replacement compounds by capillary gas chromatography 648(1993)423

Halofantrine

Direct determination of the enantiomers of halofantrine and its pharmacologically active metabolite N-desbutylhalofantrine by high-performance liquid chromatography 615(1993)347

Halogenated hydrocarbons

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

Halogenated volatile compounds

Application of solid-phase microextraction to the headspace gas chromatographic analysis of halogenated volatiles in selected foods 648(1993)199

Halomethanes

Gas chromatographic identification of halogenated hydrocarbons by using the correlation between their retention and boiling points 609(1992)289

Haloorganic compounds

Evaluation of the liquid-liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

Haloperidol

High-performance liquid chromatographic method for the detection and quantitation of haloperidol and seven of its metabolites in microsomal preparations 614(1993)267

Investigation of the metabolic fate of the neuroleptic drug haloperidol by capillary electrophoresis-electrospray ionization mass spectrometry 621(1993)239

Hazardous waste

Methods for the analysis of hazardous wastes (Review) 642(1993)65

Heavy metals

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Hemagglutinin

Effect of different amounts of the non-ionic detergents $C_{10}E_5$ and $C_{12}E_5$ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37

Hemicelluloses

High-performance size-exclusion chromatography of wood hemicelluloses on a poly(2-hydroxyethyl methacrylate-co-ethylene dimethacrylate) column with sodium hydroxide solution as eluent 639(1993)159

Heparin

Separation of natural and synthetic heparin fragments by high-performance capillary electrophoresis 608(1992)297

Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A–Sepharose 615(1993)215

Characterization of heparins with different relative molecular masses (from 11600 to 1600) by various analytical techniques 622(1993)13

Molecular mass determination of low-molecular-mass heparins. Application of wide collection angle measurements of light scattering using a high-performance gel permeation chromatographic system equipped with a low-angle laser light-scattering photometer 644(1993)17

Heptafluorobutanoic acid

Volatile ion-pairing agents for liquid chromatographic–thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

Heptylamine

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Heptylphysostigmine

Determination of heptylphysostigmine in plasma by high-performance liquid chromatography with electrochemical detection 615(1993)169

Herbicides

see Pesticides

Heroin

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography–electrochemical detection 643(1993)107

Hesperidin

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

Heterocyclic compounds

Hydrogen bonding. XXVII. Solvation parameters for functionally substituted aromatic compounds and heterocyclic compounds, from gas–liquid chromatographic data 644(1993)95

Heterodimer p66/p51 reverse transcriptase

Increased yield of homogeneous HIV-1 reverse transcriptase (p66/p51) using a slow purification approach 639(1993)67

n-Hexadecane

Critical comparison of gas–hexadecane partition coefficients as measured with packed and open tubular capillary columns 638(1993)43

Hexamethylene tetramine

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Hexane

Application of a new numerical method for characterizing heterogeneous solids by using gas–solid chromatographic data 628(1993)59

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

2,5-Hexanedione

High-performance liquid chromatographic determination of urinary 2,5-hexanedione 628(1993)316

Hexanol

Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177

Hexa-O-octanoyl-scyлло-inositol

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

1-Hexene

Application of a new numerical method for characterizing heterogeneous solids by using gas–solid chromatographic data 628(1993)59

Hexenes

Assessment by gas chromatography–mass spectrometry of hexenes emitted to air from petrol 638(1993)65

Hexestrol

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Hexobarbital

Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Hexyl 2,5-dichlorophenyl phosphoramidate

Chiral high-performance liquid chromatography and gas chromatography of the stereoisomers of hexyl 2,5-dichlorophenyl phosphoramidate 622(1993)179

Hindred amine light stabilizers

Determination of the polymeric light stabilizer Chimassorb 944 in polyolefins by isocratic high-performance liquid chromatography 606(1992)136

Hippuric acid

Assessment of the capabilities of capillary zone electrophoresis for the determination of hippuric and orotic acid in whey 608(1992)357

Histamine

Ion-pair extraction of histamine from biological fluids and tissues for its determination by high-performance liquid chromatography with fluorescence detection 614(1993)37

Rapid and highly sensitive high-performance liquid chromatographic method for the determination of histamine and 3-methylhistamine in biological samples using fluorescamine as the derivatizing agent 617(1993)233

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Histatins

High-performance liquid chromatographic determination of histatins in human saliva 619(1993)306

Histidine

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Quantitation of adsorption capacity of immunoglobulin G on histidine-aminohexyl Sepharose and determination of affinity constant 616(1993)189

Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31

Histidine-rich glycoprotein

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133

Histone H1, phosphorylated

Separation of phosphorylated histone H1 variants by high-performance capillary electrophoresis 608(1992)211

Histones

Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275

HIV-1 reverse transcriptase

Purification, characterization and crystallization of recombinant HIV-1 reverse transcriptase 604(1992)157

Homochlorcyclizine

Enantioselective pharmacokinetics of homochlorcyclizine. III. Simultaneous determination of (+)- and (-)-homochlorcyclizine in human urine by high-performance liquid chromatography 612(1993)239

Homocysteine

Modification of a high-performance liquid chromatographic method for assay of homocysteine in human plasma 617(1993)136

Homoisoflavanone

Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133

Homosalate

Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Homovanillic acid

Rapid and reliable high-performance liquid chromatographic method for analysing human plasma serotonin, 5-hydroxyindoleacetic acid, homovanillic acid and 3,4-dihydroxyphenylacetic acid 617(1993)227

Simultaneous analysis of homovanillic acid, 5-hydroxyindoleacetic acid, 3-methoxy-4-hydroxyphenylethylene glycol and vanilmandelic acid in plasma from alcoholics by high-performance liquid chromatography with electrochemical detection. Critical comparison of solid-phase and liquid-liquid extraction methods 622(1993)161

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Hopanes

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Hormone receptors

Protein purification using combined streptavidin (or avidin)-Sepharose and thiopropyl-Sepharose affinity chromatography 603(1992)95

Hormones

Rugged method for the determination of deamidation products in insulin solutions by free zone capillary electrophoresis using an untreated fused-silica capillary 604(1992)267

High-performance liquid chromatography of human glycoprotein hormones 631(1993)261

Identification of gonadorelin (LHRH) derivatives: comparison of reversed-phase high-performance liquid chromatography and micellar electrokinetic chromatography 636(1993)87

Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169

Horse allergen

Hydrophobic interaction chromatography for isolation and purification of *Equ.c1*, the horse major allergen 621(1993)23

Horseradish peroxidase

Enhanced sensitivity of immunoblotting with peroxidase-conjugated antibodies using an adsorbed substrate method 613(1993)281

Human serum albumin

see Albumin

Humic acid

Gas chromatography-electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Humic substances

Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261

Hyaluronates

Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43

Hyaluronic acid

Determination of hyaluronic acid by high-performance liquid chromatography of the oligosaccharides derived therefrom as 1-(4-methoxy)phenyl-3-methyl-5-pyrazolone derivatives 630(1993)141

Hydrazine

Determination of hydrazine in human plasma by high-performance liquid chromatography 617(1993)157

2-(4-Hydrazinocarbonylphenyl)-4,5-diphenylimidazole

2-(4-Hydrazinocarbonylphenyl)-4,5-diphenylimidazole as a versatile fluorescent derivatization reagent for the high-performance liquid chromatographic analysis of free fatty acids 619(1993)1

Hydrocarbons

Mixed retention mechanism in gas-liquid chromatography of hydrocarbon and dialkyl ether solutes on squalane-coated silica gel 604(1992)225

Polymer-based packing materials for reversed-phase liquid chromatography. Steric selectivity of polymer gels provided by diluents and cross-linking agents in suspension polymerization 625(1992)121

Trapping efficiencies of capillary cold traps for C₂-C₁₀ hydrocarbons 627(1992)219

Cyclodextrin stationary phases for the gas-solid chromatographic separation of light hydrocarbons. Evidence for multiple retention mechanisms 633(1993)135

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Simultaneous analysis of carbon oxides and hydrocarbons by gas chromatography-mass spectrometry 635(1993)265

Automatic on-line gas chromatographic monitoring of mixing of natural gas with liquefied petroleum gases under high pressure 639(1993)227

Improved gas chromatography procedure for speciated hydrocarbon measurements of vehicle emissions 639(1993)239

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Sensitive flame ionization detector for the determination of traces of atmospheric hydrocarbons by capillary column gas chromatography 642(1993)383

Assessment of ambient volatile hydrocarbons from tobacco smoke and from vehicle emissions 643(1993)71

Evaluation of capillary gas chromatography for the measurement of C₂-C₁₀ hydrocarbons in urban air samples for air pollution research 643(1993)77

Rapid group-type analysis of crude oils using high-performance liquid chromatography and gas chromatography 644(1993)253

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Hydrocarbons, cyclic

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Hydrocortisone

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Hydrofluoric acid

Determination of trace anions in hydrofluoric acid by ion chromatography 602(1992)75

Determination of trace anions in concentrated acids by means of a moderate-capacity anion-exchange column 602(1992)89

Hydrofluorocarbons

Analysis of chlorofluorocarbon replacement compounds by capillary gas chromatography 648(1993)423

Hydrogen

Ambient temperature gas purifier suitable for the trace analysis of carbon monoxide and hydrogen and the preparation of low-level carbon monoxide calibration standards in the field 630(1993)257

Static headspace gas chromatographic determination of fault gases dissolved in transformer insulating oils 633(1993)185

Hydrogencarbonate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Hydrogen peroxide

Determination of peroxydicarboxylic acids by high-performance liquid chromatography with electrochemical detection 606(1992)49

Capillary electrophoresis with laser fluorescence detection for profiling damage to fluorescein-labeled deoxyadenylic acid by background, ionizing radiation and hydrogen peroxide 633(1993)315

Hydrogenphosphate

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Hydrohalocarbons

Use of adsorbents to collect selected halocarbons and hydrohalocarbons of environmental interest from large air volumes 642(1993)123

Hydrolyzed vegetable protein

Determination of 3-chloropropane-1,2-diol in hydrolyzed vegetable proteins by capillary gas chromatography with electrolytic conductivity detection 638(1993)71

Hydroperoxides

Chromatographic determination of the position and configuration of isomers of methyl oleate hydroperoxides 626(1992)109

Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31

Peroxides. XII. Gas-liquid and high-performance liquid chromatographic analysis of aliphatic hydroperoxides and dialkyl peroxides 637(1993)157

Hydroquinone

Thin-layer chromatographic behaviour of substituted phenolic compounds on silica gel layers impregnated with Al(III) and Cu(II) 607(1992)163

Simultaneous determination of hydroquinone, catechol and phenol in urine using high-performance liquid chromatography with fluorimetric detection 619(1993)259

Iron(III) ion-modified chromatographic silica preparations and characterization 626(1992)159

Capillary electrophoresis with amperometric detection using a porous cellulose acetate joint 644(1993)208

7'-Hydroxyabscisic acid

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Hydroxy acids

Determination of hydroxy acids as their copper(II) complexes by reversed-phase liquid chromatography with UV detection 623(1992)55

Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247

5-Hydroxyaloin

High-performance liquid chromatographic separation and determination of diastereomeric anthrone-C-glucosyls in Cape aloes 639(1993)359

2-Hydroxy-3-aminophenazine

Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168

p-Hydroxybenzoic acid

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Hydroxycarboxylic acids

Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289

Improved procedure for the derivatization and gas chromatographic determination of hydroxycarboxylic acids treated with chloroformates 630(1993)429

6-Hydroxychlorzoxazone

Sensitive high-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in plasma 613(1993)127

High-performance liquid chromatographic determination of chlorzoxazone and 6-hydroxychlorzoxazone in serum: a tool for indirect evaluation of cytochrome P4502E1 activity in humans 622(1993)79

7-Hydroxycholesterol

Simultaneous determination of mevalonate and 7 α -hydroxycholesterol in human plasma by gas chromatography-mass spectrometry as indices of cholesterol and bile acid biosynthesis 613(1993)185

18-Hydroxycortisol

Determination of urinary 18-hydroxycortisol by isocratic normal-phase high-performance liquid chromatography 613(1993)132

trans-3'-Hydroxycotinine

Determination of nicotine and two major metabolites in serum by solid-phase extraction and high-performance liquid chromatography, and high-performance liquid chromatography-particle beam mass spectrometry 612(1993)209

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

High-performance liquid chromatographic determination of nicotine and its urinary metabolites via their 1,3-diethyl-2-thiobarbituric acid derivatives 613(1993)95

Determination of nicotine and four metabolites in the serum of smokers by high-performance liquid chromatography with ultraviolet detection 621(1993)257

trans-3'-Hydroxycotinine glucuronide

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

Hydroxydesipramine

High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87

2-Hydroxydesipramine

Metabolism of imipramine *in vitro* by isozyme CYP2D6 expressed in a human cell line, and observations on metabolite stability 615(1993)265

1-Hydroxy-2,7-diaminomitosene

Determination of mitomycin C, 2,7-diaminomitosene, 1,2-*cis*- and 1,2-*trans*-1-hydroxy-2,7-diaminomitosene in tumour tissue by high-performance liquid chromatography 612(1993)105

Hydroxydiclofenac

High-performance liquid chromatographic method for the routine determination of diclofenac and its hydroxy and methoxy metabolites from *in vitro* systems 620(1993)158

20-Hydroxyecdysone

Partitioning of ecdysteroids using temperature-induced phase separation 628(1993)205

Hydroxyeicosatetraenoic acid

Quantitation of monohydroxy fatty acids by high-performance liquid chromatography with fluorescence detection 622(1993)147

Hydroxyethyl cellulose

Dynamic light-scattering studies of hydroxyethyl cellulose solutions used as sieving media for electrophoretic separations 608(1992)79

8-(1'-Hydroxyethyl)etodolac

Evaluation of the stereoselective metabolism of the chiral analgesic drug etodolac by high-performance liquid chromatography 621(1993)199

N7-(2-Hydroxyethyl)xanthine

High-performance liquid chromatography *versus* solid-phase extraction for post-derivatization cleanup prior to gas chromatography-electron-capture negative-ion mass spectrometry of N1,N3-bis-(pentafluorobenzyl)-N7-(2-[pentafluorobenzoyloxy]ethyl)xanthine, a product derived from an ethylene oxide DNA adduct 629(1993)35

4-(Trifluoromethyl)-2,3,5,6-tetrafluorobenzyl bromide as a new electrophoric derivatizing reagent 641(1993)400

7-Hydroxyetodolac

Evaluation of the stereoselective metabolism of the chiral analgesic drug etodolac by high-performance liquid chromatography 621(1993)199

2-Hydroxy fatty acids

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography-mass spectrometry 605(1992)281

Hydroxyfelbamate

Determination of the anticonvulsant felbamate and its three metabolites in brain and heart tissue of rats 614(1993)285

Simultaneous determination of felbamate and four metabolites in rat cerebrospinal fluid by high-performance liquid chromatography 622(1993)223

Simultaneous determination of felbamate and three metabolites in rat and dog plasmas by high-performance liquid chromatography 622(1993)229

α -Hydroxyglycine

Rapid fluorimetric assay for the detection of the peptidyl α -amidating enzyme intermediate using high-performance liquid chromatography 607(1992)25

3-Hydroxyhexadecanoic acids

Gas chromatography-mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives 623(1992)115

Hydroxyimipramine

High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87

Metabolism of imipramine *in vitro* by isozyme CYP2D6 expressed in a human cell line, and observations on metabolite stability 615(1993)265

5-Hydroxyindoleacetic acid

Measurement of 5-hydroxytryptamine and 5-hydroxyindoleacetic acid in cultured rat mesencephalic neurons by high-performance liquid chromatography with electrochemical detection 613(1993)231

Rapid and reliable high-performance liquid chromatographic method for analysing human plasma serotonin, 5-hydroxyindoleacetic acid, homovanillic acid and 3,4-dihydroxyphenylacetic acid 617(1993)227

Simultaneous analysis of homovanillic acid, 5-hydroxyindoleacetic acid, 3-methoxy-4-hydroxyphenylethylene glycol and vanilmandelic acid in plasma from alcoholics by high-performance liquid chromatography with electrochemical detection. Critical comparison of solid-phase and liquid-liquid extraction methods 622(1993)161

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Hydroxyisobutyrate

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

α -Hydroxyisobutyric acid

Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187

Hydroxylamine

Determination of hydroxylamine in aqueous solutions of pyridinium aldoximes by high-performance liquid chromatography with UV and fluorometric detection 603(1992)145

Hydroxyleucine

The $^M\gamma$ chain of human fetal hemoglobin is an $^A\gamma$ chain with an *in vitro* modification of γ 141 leucine to hydroxyleucine 617(1993)37

5'-Hydroxylornoxicam

Simultaneous high-performance liquid chromatographic determination of lornoxicam and its 5'-hydroxy metabolite in human plasma using electrochemical detection 617(1993)105

Hydroxyl radicals

High-performance liquid chromatographic determination of methanesulphonic acid as a method for the determination of hydroxyl radicals 630(1993)187

Hydroxylysine glycosides

High-performance liquid chromatographic method for measuring hydroxylysine glycosides and their ratio in urine as a possible marker of human bone collagen breakdown 615(1993)59

Hydroxylysylpyridinoline

Automated high-performance liquid chromatographic determination of hydroxylysylpyridinoline and lysylpyridinoline in urine using a column-switching method 613(1993)43

Hydroxymandelic acids

Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247

p-Hydroxymesocarb

Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203

p-Hydroxymesocarb sulphate

Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203

Hydroxymethanesulphinate

Sulphur compounds. CLIX. Determination of dithionite ($S_2O_4^{2-}$) and hydroxymethanesulphinate ($HOCH_2SO_2^-$; Rongalite) by ion-pair chromatography 623(1992)174

5-Hydroxymethyl-2-furaldehyde

Separation and determination of 5-hydroxymethyl-2-furaldehyde and 2-furaldehyde in fruit juices by micellar electrokinetic capillary chromatography with direct sample injection 624(1992)503

5-(Hydroxymethyl)-2-furfural

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

N-Hydroxymethyl-N-methylformamide

Simultaneous determination of N,N-dimethylformamide, N-monomethylformamide and N-hydroxymethyl-N-methylformamide in rat plasma by capillary gas chromatography 615(1993)154

Hydroxymethylmexiletine

High-performance liquid chromatographic method for resolving the enantiomers of mexiletine and two major metabolites isolated from microbial fermentation media 616(1993)253

1-Hydroxymethylmidazolam

Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154

5-Hydroxymethyluracil

Gas chromatographic-mass spectrometric determination of 5-hydroxymethyluracil in human urine by stable isotope dilution 616(1993)1

p-Hydroxymexiletine

High-performance liquid chromatographic method for resolving the enantiomers of mexiletine and two major metabolites isolated from microbial fermentation media 616(1993)253

4-Hydroxymidazolam

High-performance liquid chromatographic method for the enantiomeric separation of the chiral metabolites of midazolam 609(1992)395

Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154

Hydroxynortriptyline

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Hydroxyoctadecadienoic acid

Quantitation of monohydroxy fatty acids by high-performance liquid chromatography with fluorescence detection 622(1993)147

Hydroxyomeprazole

High-performance liquid chromatographic assay for human liver microsomal omeprazole metabolism 619(1993)291

p-Hydroxyphenylfelbamate

Determination of the anticonvulsant felbamate and its three metabolites in brain and heart tissue of rats 614(1993)285

3-Hydroxyprazepam

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Hydroxyproline

Gas chromatography-mass spectrometry determination of $^{18}\text{O}_2$ in ^{18}O -labelled 4-hydroxyproline for measurement of collagen synthesis and intracellular degradation 612(1993)7

Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133

Micellar electrokinetic chromatography of hydroxyproline and other secondary amino acids in biological samples with laser-induced fluorescence detection 622(1993)269

Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239

Series-coupled capillary columns for the separation of N₁(O)-trifluoroacetyl isopropyl derivatives of D,L-aspartic acid and L-hydroxyproline by gas chromatography 634(1993)281

4-Hydroxypropranolol

Direct high-performance liquid chromatographic determination in urine of the enantiomers of propranolol and its major basic metabolite 4-hydroxypropranolol 612(1993)215

4'-Hydroxypropranolol

Immunoaffinity isolation of the sulfate conjugate of 4'-hydroxypropranolol from plasma 612(1993)320

Hydroxypropyl- β -cyclodextrin

Liquid chromatographic determination of β -cyclodextrin derivatives based on fluorescence enhancement after inclusion complexation 614(1993)95

Differential binding of tioconazole enantiomers to hydroxypropyl- β -cyclodextrin studied by capillary electrophoresis 636(1993)149

8-Hydroxyquinoline

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

8-Hydroxyquinoline-5-sulphonic acid

Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379

Hydroxyquinones

Gas chromatographic-mass spectrometric study of the reductive silylation of hydroxyquinones 645(1993)293

9-Hydroxyrisperidone

Determination of risperidone and 9-hydroxyrisperidone in human plasma by high-performance liquid chromatography with electrochemical detection 614(1993)333

17 β -Hydroxysteroid dehydrogenase

Preparation of the apoenzyme and holoenzyme forms of human 17 β -hydroxysteroid dehydrogenase 614(1993)159

Hydroxysteroids

New labelling agent, 2-[2-(isocyanate)ethyl]-3-methyl-1,4-naphthoquinone, for high-performance liquid chromatography of hydroxysteroids with electrochemical detection 641(1993)176

3-Hydroxytetradecanoic acids

Gas chromatography-mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives 623(1992)115

Hydroxytrimipramine

Simultaneous determination of trimipramine and desmethyl- and hydroxytrimipramine in plasma and red blood cells by capillary gas chromatography with nitrogen-selective detection 613(1993)59

5-Hydroxytryptamine

see Serotonin

25-Hydroxyvitamin D₃

Characterization of vitamin D₃ metabolites using continuous-flow fast atom bombardment tandem mass spectrometry and high-performance liquid chromatography 645(1993)115

Hyoscyamine

Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193

Hypericin

Determination of hypericin and pseudohypericin by thin-layer chromatography–densitometry 609(1992)423

Hypochlorite

Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385

Hypoxanthine

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

Hypoxanthine–xanthine oxidase

High-performance liquid chromatographic determination of methanesulphonic acid as a method for the determination of hydroxyl radicals 630(1993)187

N²-[5-(Hypoxanthin-9-yl)pentylloxycarbonyl]-L-arginine

High-performance liquid chromatographic assay for N²-[5-(hypoxanthin-9-yl)pentylloxycarbonyl]-L-arginine (ST 789) in plasma by cyclization with benzoin and fluorimetric detection 619(1993)167

Hypusine

Determination of the unusual amino acid hypusine at the lower picomole level by derivatization with 4-dimethylaminoazobenzene-4'-sulphonyl chloride and reversed-phase high-performance or medium-pressure liquid chromatography 606(1992)43

I**Ibuprofen**

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Direct determination of ibuprofen and ibuprofen acyl glucuronide in plasma by high-performance liquid chromatography using solid-phase extraction 614(1993)109

Liquid chromatographic analysis of carboxylic acids using N-(4-aminobutyl)-N-ethylisoluminol as chemiluminescent label: determination of ibuprofen in saliva 615(1993)97

Limited extent of stereochemical conversion of chiral non-steroidal anti-inflammatory drugs induced by derivatization methods employing ethyl chloroformate 616(1993)59

Stereospecific high-performance liquid chromatographic assay of ibuprofen: improved sensitivity and sample processing efficiency 619(1993)330

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Capillary electrophoretic chiral separations with cyclodextrin additives. I. Acids: chiral selectivity as a function of pH and the concentration of β -cyclodextrin for fenoprofen and ibuprofen 635(1993)291

Displacement chromatography on cyclodextrin silicas. IV. Separation of the enantiomers of ibuprofen 645(1993)67

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Ibuprofen acyl glucuronide

Direct determination of ibuprofen and ibuprofen acyl glucuronide in plasma by high-performance liquid chromatography using solid-phase extraction 614(1993)109

Ifosfamide

Determination of chloroacetaldehyde, a metabolite of oxazaphosphorine cytostatic drugs, in plasma 614(1993)253

Determination of the enantiomers of ifosfamide and its 2- and 3-N-dechloroethylated metabolites in plasma and urine using enantioselective gas chromatography with mass spectrometric detection 622(1993)21

Imidapil

Highly sensitive determination of imidapril, a new angiotensin I-converting enzyme inhibitor, and its active metabolite in human plasma and urine using high-performance liquid chromatography with fluorescent labelling reagent 617(1993)95

Imino acids

Efficient enantioselective separation and determination of trace impurities in secondary amino acids (*i.e.*, imino acids) 623(1992)33

Imipramine

High-performance liquid chromatography of imipramine and six metabolites in human plasma and urine 612(1993)87

Metabolism of imipramine *in vitro* by isozyme CYP2D6 expressed in a human cell line, and observations on metabolite stability 615(1993)265

Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135

Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181

Isotope effects in liquid chromatography of imipramine and desmethylimipramine 636(1993)243

Isotachophoretic analysis of some antidepressants 638(1993)231

Immunoglobulin G

Interaction of immunoglobulin G with immobilized histidine: mechanistic and kinetic aspects 604(1992)29

Quantitation of adsorption capacity of immunoglobulin G on histidine-aminohexyl Sepharose and determination of affinity constant 616(1993)189

Behaviour of human immunoglobulin G subclasses on thiophilic gels: comparison with hydrophobic interaction chromatography 616(1993)197

Kappa marker typing with high-performance liquid chromatography: identification of kappa marker specific tryptic peptide from the kappa light chain of immunoglobulin G 622(1993)9

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Immunoglobulins

Multiple ligand applications in high-performance immunoaffinity chromatography 603(1992)273

Selective adsorption of immunoglobulins and glycosylated proteins on phenylboronate-agarose 604(1992)109

Separation of polysaccharide-specific human immunoglobulin G subclasses using a Protein A Superose column with a pH gradient elution system 639(1993)51

Inclusion compounds

Gas chromatographic study of the inclusion properties of dibenzo-24-crown-8 ether 623(1992)297

Indanes

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography-mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Indapamine

High-performance liquid chromatographic method for the determination of indapamide in human whole blood 614(1993)293

Indole-3-acetic acid

Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255

Indole alkaloids

Improvement of the liquid chromatographic separation of the enantiomers of tetracyclic eudistomins by the combination of a β -cyclodextrin stationary phase and camphorsulphonic acid as mobile phase additive 625(1992)223

Indole auxins

Studies on an abnormally sharpened elution peak observed in counter-current chromatography 625(1992)177

Indoles

Determination of indolic compounds in pig back fat by solid-phase extraction and gradient high-performance liquid chromatography with special emphasis on the boar taint compound skatole 624(1992)479

Indoloquinone cytotoxic drug

Sensitive isocratic high-performance liquid chromatographic determination of a novel indoloquinone cytotoxic drug (EO9) in human plasma and urine 615(1993)309

Indomethacin

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Determination of indomethacin, its metabolites and their glucuronides in human plasma and urine by means of direct gradient high-performance liquid chromatographic analysis. Preliminary pharmacokinetics and effect of probenecid 616(1993)271

Extractionless high-performance liquid chromatographic method for the determination of diclofenac in human plasma and urine 619(1993)324

Ingenol

Determination of ingenol in homoeopathic mother tinctures of *Euphorbia* species by high-performance liquid chromatography 637(1993)206

Inorganic anions

Applications of an alternative stationary phase for the separation of anions by chemically suppressed ion chromatography 602(1992)15

Forensic applications of coupling non-suppressed ion-exchange chromatography with ion-exclusion chromatography 602(1992)141

Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219

Application of ion chromatography to the determination of selectivity coefficients 604(1992)282

Application of amino acid-bonded silicas as ion exchangers for the separation of anions by single-column ion chromatography 605(1992)199

Applications of high-performance ion chromatography in the mineral processing industry 606(1992)195

Effects of carrier electrolyte composition on separation selectivity in capillary zone electrophoresis of low-molecular-mass anions 608(1992)59

Application of ion chromatography to the determination of inorganic anions in foodstuffs (Review) 624(1992)457

Role of capillary electrophoresis in specialty chemical research 636(1993)153

Method development approaches for capillary ion electrophoresis 640(1993)387

Investigation of vanadate as a pH sensitive analyte anion using capillary zone electrophoresis 646(1993)405

Inorganic cations

see also Metal cations

Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Optimization of detection sensitivity in the analysis of inorganic cations by capillary ion electrophoresis using indirect photometric detection 608(1992)395

Automatic simultaneous determination of anions and cations in atmospheric aerosols by ion chromatography 640(1993)217

Inorganic gases

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Inorganic ions

see also Metal ions

Regulated methods for ion analysis 602(1992)205

Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227

Capillary electrophoretic determination of inorganic ions in a prenatal vitamin formulation 640(1993)441

Inorganic pollutants

Planar layer chromatography in the analysis of inorganic pollutants (Review) 642(1993)445

Inositol phosphates

Rapid and sensitive anion-exchange high-performance liquid chromatographic determination of radiolabeled inositol phosphates and inositol trisphosphate isomers in cellular systems 607(1992)19

Separation of inositol phosphates by capillary electrophoresis 608(1992)413

Lyophilization can generate artifacts in chromatographic profiles of inositol phosphates 619(1993)121

Insecticides

see Pesticides

Insulin

Analysis of proinsulin and its conversion products by reversed-phase high-performance liquid chromatography (Review) 614(1993)185

Insulin, desamido products

Rugged method for the determination of deamidation products in insulin solutions by free zone capillary electrophoresis using an untreated fused-silica capillary 604(1992)267

Insulin-like growth factor I

Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329

Interferon

Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3

Interferon- γ

Production, purification and characterization of recombinant human interferon γ 604(1992)143

Interleukin-4

Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235

Interleukins

Separation of interleukins by a preparative chromatofocusing-like method 631(1993)277

Intopicine

Determination of intopicine, a new antitumour drug, in human whole blood and plasma by normal-phase high-performance liquid chromatography with fluorescence detection 614(1993)299

Inulin

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Iodide

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

***m*-Iodobenzylguanidine**

High-performance liquid chromatographic determination of *m*-iodobenzylguanidine in urine of cancer patients 622(1993)71

Iodomethane

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography-mass spectrometry 605(1992)281

Ionic surfactants

Determination of C₈-C₂₀ saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Irganox 1010

Determination of the polymeric light stabilizer Chimassorb 944 in polyolefins by isocratic high-performance liquid chromatography 606(1992)136

Irganox 1330

Identification by particle-beam liquid chromatography-mass spectrometry of transformation products of the antioxidant Irganox 1330 in food-contact polymers subjected to electron-beam irradiation 629(1993)283

Iron

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo) resorcinol and Arsenazo-III 605(1992)63

Purification and determination of the binding site of lactate dehydrogenase from chicken breast muscle on immobilized ferric ions 627(1992)163

High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone chelates 633(1993)129

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Isocyanuric acid

Determination of isocyanuric acid, ammelide, ammeline and melamine in crude isocyanuric acid by ion chromatography 639(1993)338

Determination of isocyanuric acid and its chlorinated derivatives in swimming pool waters by ion chromatography 644(1993)400

Isoenzymes

Characterization of recombinant human extracellular superoxide dismutase 621(1993)139

Isoflavan

Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133

Isoflavanones

Enantiomeric separation of racemic isoflavanones and related compounds on (+)-poly(triphenylmethyl methacrylate)-coated silica gel 603(1992)133

Isoflavones, phenylated

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Isoflavonoids

Separation of aglucones, glucosides and prenylated isoflavones by high-performance liquid chromatography 606(1992)255

Isohypophosphonate

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Isoniazid

Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285

Isopilocarpine

Analysis of pilocarpine and its *trans* epimer, isopilocarpine, by capillary electrophoresis 638(1993)319

Isoprene

Development of automated gas chromatographic-mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

Isoprenoid alkylglycerol diethers

Gas chromatographic determination of isoprenoid alkylglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253

Isoprenoid diphosphates

Rapid synthesis of isoprenoid diphosphates and their isolation in one step using either thin layer or flash chromatography 645(1993)161

Isoprenoid pyrophosphates

Rapid synthesis of isoprenoid diphosphates and their isolation in one step using either thin layer or flash chromatography 645(1993)161

Isoprenoids

Development of high-performance liquid chromatographic systems for the separation of radiolabelled carotenes and precursors formed in specific enzymatic reactions 645(1993)265

Isoprocarb

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Isoproturon

Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307

Isothiocyanates

Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433

Iturin A

Purification of antifungal lipopeptides by reversed-phase high-performance liquid chromatography 639(1993)81

Ivermectin

Improvements in detection sensitivity for the determination of ivermectin in plasma using chromatographic techniques and laser-induced fluorescence detection with automated derivatization 617(1993)79

J**Jatrorrhizine**

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

K**Kaempferol**

High-performance liquid chromatography of honey flavonoids 634(1993)41

Kallikrein

Synthesis of the segment (11-23) located in the first tandem repeat of plasma kallikrein: comparative binding studies of this and another segment (328-343) to high-molecular-mass kininogen 615(1993)251

Kaolinite

Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry 642(1993)459

Kappa marker

Kappa marker typing with high-performance liquid chromatography: identification of kappa marker specific tryptic peptide from the kappa light chain of immunoglobulin G 622(1993)9

Ketals

Determination of 3-chloropropanediol and related dioxolanes by gas chromatography 605(1992)134

Ketamine

Rapid high-performance liquid chromatographic method for the determination of ketamine and its metabolite dehydronorketamine in equine serum 620(1993)281

Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

 α -Ketoglutarate

Determination of glutamine and α -ketoglutarate concentration and specific activity in plasma using high-performance liquid chromatography 620(1993)33

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

α -Ketoisocaproate

High-performance liquid chromatographic measurement of leucine and α -ketoisocaproate in whole blood: application to fetal protein metabolism 613(1993)23

Ketones

Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Ketoprofen

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Limited extent of stereochemical conversion of chiral non-steroidal anti-inflammatory drugs induced by derivatization methods employing ethyl chloroformate 616(1993)59

Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Ketorolac

Reversed-phase high-performance liquid chromatography of ketorolac and its application to bioequivalence studies in human serum 614(1993)180

Khellin

Determination of khellin in serum by gas chromatography 614(1993)324

Kinetin

Determination of kinetin in callus of *Panax ginseng* by liquid chromatography 628(1993)122

Kininogen

Synthesis of the segment (11–23) located in the first tandem repeat of plasma kallikrein: comparative binding studies of this and another segment (328–343) to high-molecular-mass kininogen 615(1993)251

Kobusine

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 644(1993)43

Kraft pulp ozonolysis products

Analysis of cellulose and kraft pulp ozonolysis products by anion-exchange chromatography with pulsed amperometric detection 640(1993)335

Krypton

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Kynurenine

Adsorption chromatography on cellulose. VII. Chiral separations on cellulose with aqueous solvents 604(1992)55

L

Labetalol

Determination of propranolol, labetalol and clenbuterol in rat brain by high-performance liquid chromatography 613(1993)121

Sensitive high-performance liquid chromatographic method for direct separation of labetalol stereoisomers in biological fluids using an α_1 -acid glycoprotein stationary phase 619(1993)79

Lacidipine

Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101

Investigation into lacidipine and related metabolites by high-performance liquid chromatography-mass spectrometry 647(1993)155

β -Lactam antibiotics

see also Antibiotics

Determination of a novel β -lactam antibiotic (E-1100) in rat plasma by high-performance liquid chromatography 620(1993)153

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Lactate

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

Determination of ionic species formed during growth of *Escherichia coli* by capillary isotachopheresis 644(1993)389

Lactate dehydrogenase

Affinity partitioning of enzymes in aqueous two-phase systems containing dyes and their copper(II) complexes bound to poly(ethylene glycol) 606(1992)55

Purification and determination of the binding site of lactate dehydrogenase from chicken breast muscle on immobilized ferric ions 627(1992)163

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25

Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367

Lactoferrin

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

 β -Lactoglobulin

Adsorption behavior of milk proteins on polystyrene latex. A study based on sedimentation field-flow fractionation and dynamic light scattering 604(1992)63

Lactones

Extraction and high-performance liquid chromatographic methods for the γ -lactones parthenolide (*Chrysanthemum parthenium* Bernh.), marrubiin (*Marrubium vulgare* L.) and artemisinin (*Artemisia annua* L.) 605(1992)124

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Improved enantiomeric separation with a 2,6-di-O-pentyl-3-O-trifluoroacetylated β -cyclodextrin and OV-7 mixed stationary phase chiral capillary column 644(1993)202

Lactulose

Analysis of multiple sugar probes in urine and plasma by high-performance anion-exchange chromatography with pulsed electrochemical detection. Application in the assessment of intestinal permeability in human immunodeficiency virus infection 640(1993)293

Lanthanides

Bonded-phase capillaries and the separation of inorganic ions by high-voltage capillary electrophoresis 602(1992)227

Separation of metal ions by capillary electrophoresis 640(1993)425

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

Laser dyes

Optimization of capillary zone electrophoresis-electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Lead

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo) resorcinol and Arsenazo-III 605(1992)63

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Determination of cadmium and lead at $\mu\text{g/l}$ levels in aqueous matrices by chelation ion chromatography 640(1993)207

End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Lecithins

Advances in planar chromatography for the separation of food lipids (Review) 624(1992)11

Lectin

Study of lectin–ganglioside interactions by high-performance liquid affinity chromatography 646(1993)327

Leucine

High-performance liquid chromatographic measurement of leucine and α -ketoisocaproate in whole blood: application to fetal protein metabolism 613(1993)23

The M_γ chain of human fetal hemoglobin is an A_γ chain with an *in vitro* modification of γ 141 leucine to hydroxyleucine 617(1993)37

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277

Leucine anilides, carbamate derivatives

Use of homologous series of analytes as mechanistic probes to investigate the origins of enantioselectivity on two chiral stationary phases 641(1993)21

Leucovorin

Determination of leucovorin and 5-fluorouracil in plasma by high-performance liquid chromatography 612(1993)77

Chiral separations using dextran and bovine serum albumin as run buffer additives in affinity capillary electrophoresis 648(1993)475

Leukotriene E₄

Gas chromatographic–mass spectrometric determination of leukotriene E₄ in human urine using deuterium-labelled leukotriene E₄ standards 622(1993)1

Levamisole

Modified on-column interface for coupled high-performance liquid chromatography–gas chromatography and its application to the determination of levamisole in milk 626(1992)223

Lewis metal ions

High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107

Lichen substances

Identification of lichen substances by a standardized high-performance liquid chromatographic method 646(1993)417

Lignans

Quantification of mammalian lignans in biological fluids using gas chromatography with ion mobility detection 617(1993)173

Lignin

Combined high-performance aqueous size-exclusion chromatographic and pyrolysis–gas chromatographic–mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263

Lignosulphonates

Combined high-performance aqueous size-exclusion chromatographic and pyrolysis–gas chromatographic–mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263

Limonoid glucosides

Thin-layer and high-performance liquid chromatographic analyses of limonoids and limonoid glucosides in *Citrus* seeds 639(1993)295

Limonoids

Thin-layer and high-performance liquid chromatographic analyses of limonoids and limonoid glucosides in *Citrus* seeds 639(1993)295

Linalyl acetate

Simultaneous distillation–extraction under static vacuum: isolation of volatile compounds at room temperature 606(1992)87

Linoleic acid methyl esters

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Linoleic acids

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag⁺ complexation. Application to *cis*–*trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Lipase

Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288

Lipids

Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97

Determination of the triglyceride composition of avocado oil by high-performance liquid chromatography using a light-scattering detector 607(1992)329

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

Method for isolation of non-esterified fatty acids and several other classes of plasma lipids by column chromatography on silica gel 619(1993)9

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Advances in planar chromatography for the separation of food lipids (Review) 624(1992)11

Thin-layer chromatography–flame ionization detection Iatroscan system (Review) 624(1992)21

Gas chromatography of fatty acids (Review) 624(1992)37

Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317

Identification of chlorinated fatty acids in fish lipids by partitioning studies and by gas chromatography with Hall electrolytic conductivity detection 625(1992)257

Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

High-performance liquid chromatographic analysis of wheat flour lipids using an evaporative light scattering detector 645(1993)83

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Lipids, amniotic fluid

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography–reflectance spectrodensitometry 615(1993)142

Lipoic acid

Analysis of lipoic acid in biological samples by gas chromatography with flame photometric detection 615(1993)197

Lipopeptides

Purification of antifungal lipopeptides by reversed-phase high-performance liquid chromatography 639(1993)81

Lipopolysaccharides

Gas chromatography–mass spectrometry of lipopolysaccharide 3-hydroxy fatty acids: comparison of pentafluorobenzoyl and trimethylsilyl methyl ester derivatives 623(1992)115

Lipoproteins

Separation of high-density lipoproteins into apolipoprotein E-poor and apolipoprotein E-rich subfractions by fast protein liquid chromatography using a heparin affinity column 613(1993)239

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Lisianthioside

Liquid chromatographic–thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpenic glycosides 647(1993)183

Lisuride

Quantitative determination of the dopamine agonist lisuride in plasma using high-performance liquid chromatography with fluorescence detection 622(1993)33

Lithium

Lithium isotope effects in water–dimethyl sulphoxide mixed-solvent ion-exchange chromatography 627(1992)187

Chromatographic studies of corrosion sites in metallic materials 640(1993)345

Lithium chloride

Size-exclusion chromatography of cellulose and chitin using lithium chloride–N,N-dimethylacetamide as a mobile phase 635(1993)334

Lometrexol

Specific and sensitive high-performance liquid chromatographic method with fluorescence detection for measurement of lometrexol and its polyglutamates in biologic samples 621(1993)55

Loracarbef

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

Lorazepam

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Lornoxicam

Simultaneous high-performance liquid chromatographic determination of lornoxicam and its 5'-hydroxy metabolite in human plasma using electrochemical detection 617(1993)105

Lovastatin

Determination of Lovastatin (mevinolin) and mevinolinic acid in fermentation liquids 630(1993)415

Lucidusculine

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 644(1993)43

Luciferin

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Luminarin 3

Determination of malonaldehyde by coupled high-performance liquid chromatography–spectrofluorimetry after derivatization with luminarin 3 648(1993)111

Lutein

High-performance liquid chromatography–diode-array detection of photosynthetic pigments 607(1992)215

Luteinizing hormone

High-performance liquid chromatography of human glycoprotein hormones 631(1993)261

LY246708

Sensitive liquid chromatographic method for the determination of a specific M1 agonist, LY246708, an investigational agent with potential for the treatment of Alzheimer's disease, in human plasma 613(1993)365

Lysergic acid

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

L- α -Lysophosphatidylethanolamine

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. II. Characterization of the system 626(1992)71

Lysophospholipase

Separation and analysis of amino alcohol-containing diacylglycerophospholipids and their hydrolytic metabolites 636(1993)221

Lysosomal enzymes

Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281

Lysozyme

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Capillary zone electrophoresis–ionspray mass spectrometry of a synthetic drug–protein conjugate mixture 647(1993)361

Lysylpyridinoline

Automated high-performance liquid chromatographic determination of hydroxylysylpyridinoline and lysylpyridinoline in urine using a column-switching method 613(1993)43

M**M1 agonist**

Sensitive liquid chromatographic method for the determination of a specific M1 agonist, LY246708, an investigational agent with potential for the treatment of Alzheimer's disease, in human plasma 613(1993)365

Mace oil

Possible value for the gas chromatographic analysis of essential oils of some unusual phase commercial capillaries 626(1992)294

Macrolides

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Macromolecules

Macromolecular porosimetry 648(1993)9

Magnesium

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion 609(1992)83

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317

Chromatographic studies of corrosion sites in metallic materials 640(1993)345

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419

Magnoflorine

Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196

Maillard reaction products

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

Main group elements

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Malathion

On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Maleic acid esters

Chromatographic behaviour of diastereoisomers. XI. Steric effects and solvent selectivity effects in retentions on silica of esters of maleic and fumaric acids 606(1992)113

Maleic hydrazide

Determination of maleic hydrazide residues in cured tobacco by gas chromatography 604(1992)243

Malonaldehyde

Estimation of the extent of lipid peroxidation in the ischemic and reperfused heart by monitoring lipid metabolic products with the aid of high-performance liquid chromatography 632(1993)97

Determination of malonaldehyde by coupled high-performance liquid chromatography-spectrofluorimetry after derivatization with luminarin 3 648(1993)111

Malondialdehyde

Highly sensitive high-performance liquid chromatography for the measurement of malondialdehyde in biological samples 621(1993)77

Maltooligosaccharides

Capillary zone electrophoresis of malto-oligosaccharides derivatized with 8-aminonaphthalene-1,3,6-trisulfonic acid 645(1993)337

Maltodextrins

Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275

Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279

Recent progress in high-performance anion-exchange chromatography-thermospray mass spectrometry of oligosaccharides 647(1993)319

Maltoheptaose

Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47

Maltooligosaccharides

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

Maltose-binding protein

Evaluation of several affinity chromatographic supports for the purification of maltose-binding protein from *Escherichia coli* 633(1993)273

Mandelic acid

Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247

Manganese

Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)resorcinol and Arsenazo-III 605(1992)63

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Improved method for the determination of manganese in nuclear power plant waters 640(1993)371

Mannitol

Analysis of multiple sugar probes in urine and plasma by high-performance anion-exchange chromatography with pulsed electrochemical detection. Application in the assessment of intestinal permeability in human immunodeficiency virus infection 640(1993)293

Maprotiline

Isotachophoretic analysis of some antidepressants 638(1993)231

Marrubiin

Extraction and high-performance liquid chromatographic methods for the γ -lactones parthenolide (*Chrysanthemum parthenium* Bernh.), marrubiin (*Marrubium vulgare* L.) and artemisinin (*Artemisia annua* L.) 605(1992)124

Mebendazole

High-performance liquid chromatographic determination of the anthelmintic mebendazole in eel muscle tissue 615(1993)186

Determination of a new antifilarial drug, UMF-058, and mebendazole in whole blood by high-performance liquid chromatography 615(1993)303

Mebeverine

Evaluation of capillary supercritical fluid chromatography with mass spectrometric detection for the analysis of a drug (mebeverine) in a dog plasma matrix 622(1993)209

Medetomidine

Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Mefenamic acid

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Mefloquine

High-performance liquid chromatographic method for the simultaneous determination of mefloquine and its carboxylic metabolite in 100- μ l capillary blood samples dried on paper 615(1993)297

Improved column-switching liquid chromatographic method for the determination of the enantiomers of mefloquine 619(1993)161

Enantioselective high-performance liquid chromatographic determination of (*SR*)- and (*RS*)-mefloquine in plasma using *N*-benzyloxycarbonyl-glycyl-L-proline as chiral counter ion 620(1993)217

Melamine

Determination of isocyanuric acid, ammelide, ammeline and melamine in crude isocyanuric acid by ion chromatography 639(1993)338

Melanin

Prediction of drug binding to melanin using a melanin-based high-performance liquid chromatographic stationary phase and chemometric analysis of the chromatographic data 615(1993)281

Mellein

Identification and determination of mellein in cultures of the fungus *Septoria nodorum* (Berk.) by thin-layer and high-performance liquid chromatography 609(1992)349

Mellitin

Rapid displacement chromatography of mellitin on micropellicular octadecyl-silica 604(1992)47

Membrane proteins

see also Proteins

High-performance hydroxyapatite chromatography of integral membrane proteins and water-soluble proteins in complex with sodium dodecyl sulphate 604(1992)95

Mephénytoin

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Mepiquat

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Mepivacaine

Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

Meprobamate

Gas chromatographic determination of meprobamate in human plasma 615(1993)343

2-Mercaptobenzothiazole

High-performance liquid chromatography of inorganic mercury and organomercury with 2-mercaptobenzothiazole 628(1993)133

D-3-Mercapto-2-methylpropionic acid

Enantioseparation of amino compounds by derivatization with *o*-phthalaldehyde and D-3-mercapto-2-methylpropionic acid 623(1992)237

6-Mercaptopurine

High-performance liquid chromatographic determination of thiopurine metabolites of azathioprine in biological fluids 615(1993)352

Mercury

High-performance liquid chromatography of inorganic mercury and organomercury with 2-mercaptobenzothiazole 628(1993)133

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455

Mercury compounds, inorganic

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

(Mesitylene)chromium tricarbonyl

Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53

Mesocarb

Determination of mesocarb metabolites by high-performance liquid chromatography with UV detection and with mass spectrometry using a particle-beam interface 647(1993)203

Metal-binding peptides

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133

Metal cations

see also Inorganic cations

New thiohydrazones for complexation and chromatographic determination of metal ions 602(1992)103

Ion chromatography of metal cations on carboxylic acid resins 602(1992)111

Effect of solvent composition and pH on R_f values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121

Separation of some metals as their anionic oxalate complexes by reversed-phase ion-interaction chromatography 635(1993)257

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215

Metal chelates

High-performance liquid chromatographic separation of metal ions using aspartic acid β -hydroxamate as a model siderophore 626(1992)277

Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371

Recognition and separation of isoenzymes by metal chelates. Immobilized metal ion affinity partitioning of lactate dehydrogenase isoenzymes 644(1993)25

Correlation analysis in liquid chromatography of metal chelates. III. Multi-dimensional models in reversed-phase liquid chromatography 648(1993)307

Metal complexes

Ion-pair reversed-phase high-performance liquid chromatography for trace metal preconcentration followed by ion-interaction chromatography 640(1993)127

Ion-interaction chromatographic studies on metal ions complexed with Plasmocorinth B dye 640(1993)179

Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187

Determination of stability constants of metal complexes from ion chromatographic measurements 641(1993)229

Metal di-*n*-alkyldithiophosphates

Correlation analysis in liquid chromatography of metal chelates. III. Multi-dimensional models in reversed-phase liquid chromatography 648(1993)307

Metal-EDTA complexes

Retention model for the separation of anionic metal-EDTA complexes in ion chromatography 640(1993)15

Metal ions

see also Inorganic ions

Application of ion chromatography to corrosion studies 602(1992)135

Simultaneous cation and reversed-phase chromatography 607(1992)135

Separation and quantitation of some metal ions by reversed-phase high-performance liquid chromatography using *in situ* complexation with (\pm)-*trans*-1,2-diaminocyclohexane-*N,N,N',N'*-tetraacetic acid 607(1992)207

Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. IV. Separation of metal ions in a non-radioactive model solution of a high-level liquid waste 633(1993)261

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Complexation ion chromatography—an overview of developments and trends in trace metal analysis (Review) 640(1993)195

Separation of metal ions by capillary electrophoresis 640(1993)425

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

Metalloboranes

Liquid chromatographic resolution of enantiomers of deltahedral carborane and metallaborane derivatives 626(1992)197

Metallochlorophylls

Preparation and determination of zinc(II) chlorophylls by reversed-phase high-performance liquid chromatography 645(1993)259

Metallophthalocyanines

Characterisation of the photochemotherapeutic agent disulphonated aluminium phthalocyanine and its high-performance liquid chromatographic separated components 646(1993)345

Metalloporphyrins

Development of a high-temperature gas chromatography–inductively coupled plasma mass spectrometry interface for the determination of metalloporphyrins 646(1993)369

Metallothioneins

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Separation of metallothionein isoforms by capillary zone electrophoresis 632(1993)127

Characterization of metallothionein isoforms. Comparison of capillary zone electrophoresis with reversed-phase high-performance liquid chromatography 648(1993)459

Metal–olefin complexes

Direct measurement of the inverse secondary isotope effects of Rh(I)–C₂H₄ and Rh(I)–C₂H₃D utilizing gas chromatography 607(1992)69

Metal–oxygen cluster anions

Ion chromatographic analysis of inorganic molecular metal–oxygen cluster compounds 602(1992)173

Metanephrine

Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181

Metanicotine

Gas chromatographic–mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49

Methacrolein

Development of automated gas chromatographic–mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

Methamidophos

Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300

Methamphetamine

Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269

Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147

Methanesulphinic acid

High-performance liquid chromatographic determination of methanesulphinic acid as a method for the determination of hydroxyl radicals 630(1993)187

Methanol

Deuterium nuclear magnetic resonance spectroscopy as a probe for reversed-phase liquid chromatographic bonded phase solvation: methanol and acetonitrile mobile phase components 631(1993)23

Methapyrilene

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Methimazole

Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291

Methiocarb

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Methionine

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine- derived chiral stationary phases 644(1993)277

Methionine enkephalin

Methionine enkephalin-like immunoreactivity, substance P-like immunoreactivity and β -endorphin-like immunoreactivity *post-mortem* stability in rat pituitary 616(1993)175

L-Methionine-dl-sulphoxide

Determination of L-methionine-dl-sulphoxide in tissue extracts 619(1993)299

Methomyl

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Methotrexate

Determination of methotrexate in human urine at nanomolar levels by high-performance liquid chromatography with column switching 613(1993)311

Methoxsalen

High-performance liquid chromatographic determination of methoxsalen in plasma after liquid-solid extraction 614(1993)340

Methoxychlor

Variables affecting the supercritical fluid extraction of analytes from octadecylsilane solid-phase sorbents 629(1993)3

Methoxydiclofenac

High-performance liquid chromatographic method for the routine determination of diclofenac and its hydroxy and methoxy metabolites from *in vitro* systems 620(1993)158

3-Methoxy-4-hydroxyphenylethylene glycol

Simultaneous analysis of homovanillic acid, 5-hydroxyindoleacetic acid, 3-methoxy-4-hydroxyphenylethylene glycol and vanilmandelic acid in plasma from alcoholics by high-performance liquid chromatography with electrochemical detection. Critical comparison of solid-phase and liquid-liquid extraction methods 622(1993)161

3-(3-Methoxy-4-hydroxyphenyl)alanine, N-acyl alkyl esters

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

3-Methoxy-2-N,N-methyloctadecylaminopropylphosphorylcholine

Determination of the aza alkyl lysophospholipid 3-methoxy-2-N,N-methyloctadecylaminopropylphosphorylcholine in rat plasma by liquid chromatography-particle beam-mass spectrometry 622(1993)215

1-(4-Methoxy)phenyl-3-methyl-5-pyrazolone

Determination of hyaluronic acid by high-performance liquid chromatography of the oligosaccharides derived therefrom as 1-(4-methoxy)phenyl-3-methyl-5-pyrazolone derivatives 630(1993)141

3-Methoxytyramine

Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181

Methyl acetate

Use of methyl and ethyl acetate as organic modifiers in reversed-phase high-performance liquid chromatography. Application to impurity control in bulk drug steroids 607(1992)175

Methylamine

Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191

Methyl anisoles

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

N-Methylcarbamates

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Automatic determination of N-methylcarbamate pesticides by using a liquid-liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169

High-performance liquid chromatographic methods for the determination of N-methylcarbamate pesticides in water, soil, plants and air (Review) 642(1993)89

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

N-Methylcarbamoyloximes

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

2-Methylcarboxybenzaldehyde

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

Methyl chloroformate

Identification of side-products formed by derivatization of 2-hydroxycarboxylic acids with methyl and ethyl chloroformate 626(1992)289

6-Methylcodeine

Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366

5-Methylcytosine

Quantitation of 5-methylcytosine by one-dimensional high-performance thin-layer chromatography 645(1993)189

 α -Methyldopa

Application of high-performance liquid chromatography in the kinetic study of α -methyldopa 623(1992)75

N-Methyldopamine

Presence of N-methyldopamine in parkinsonian and normal human brains 613(1993)1

6-Methylen-androsta-1,4-diene-3,17-dione

Determination of exemestane, a new aromatase inhibitor, in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)225

2,2'-Methylenebis(4-chlorophenol)

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

N,N'-Methylenebisacrylamide

Investigation of the properties of acrylamide bifunctional monomers (cross-linkers) by capillary zone electrophoresis 608(1992)343

3,4-Methylenedioxyamphetamine

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

3-(3,4-Methylenedioxyphenyl)alanine, N-acyl alkyl esters

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

Methyl ester dienes

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Methyl ester enones

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Methylethylamine

Gas chromatographic determination of primary and secondary low-molecular-mass aliphatic amines in urine using derivatization with isobutyl chloroformate 617(1993)191

3-Methylflavone-8-carboxylic acid

Determination of 3-methylflavone-8-carboxylic acid, the main metabolite of flavoxate, in human urine by capillary electrophoresis with direct injection 612(1993)287

N-Methylformamide

Unusual deuterium isotope effect on the retention of formamides in gas-liquid chromatography 641(1993)194

3-O-Methylglucose

Analysis of multiple sugar probes in urine and plasma by high-performance anion-exchange chromatography with pulsed electrochemical detection. Application in the assessment of intestinal permeability in human immunodeficiency virus infection 640(1993)293

3-Methylhistamine

Rapid and highly sensitive high-performance liquid chromatographic method for the determination of histamine and 3-methylhistamine in biological samples using fluorescamine as the derivatizing agent 617(1993)233

Methyl 5-hydroxy-2-benzimidazole carbamate

Determination of methyl 5-hydroxy-2-benzimidazole carbamate in urine by high-performance liquid chromatography with electrochemical detection 613(1993)89

4-Methyl-5-(2-hydroxyethyl)thiazole

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

3-Methylindole

High-performance liquid chromatographic method for the determination of 3-methylindole (skatole) and indole in adipose tissue of pigs 616(1993)205

Methylmalonic acid

Quantification of methylmalonic acid in serum measured by capillary gas chromatography-mass spectrometry as *tert*-butyldimethylsilyl derivatives 620(1993)1

Methyl mandelate

Modeling of the adsorption behavior and the chromatographic band profiles of enantiomers. Behavior of methyl mandelate on immobilized cellulose 630(1993)21

Methylmercury

Evaluation of capillary columns used in the routine determination of methylmercury in biological and environmental materials 605(1992)69

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

Methyl myristate

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

4-(Methylnitrosamino)-4-(3-pyridyl)butyric acid

Determination of 4-(methylnitrosamino)-4-(3-pyridyl)butyric acid in tobacco, tobacco smoke and the urine of rats and smokers 620(1993)55

N-Methylnorsalsolinol

Presence of N-methyl-dopamine in parkinsonian and normal human brains 613(1993)1

Methyl nortestosterone

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Methyl oleate hydroperoxides

Chromatographic determination of the position and configuration of isomers of methyl oleate hydroperoxides 626(1992)109

Methyl parathion

Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

Methylphenobarbital

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

N-Methylsalsolinol

Presence of N-methyl-dopamine in parkinsonian and normal human brains 613(1993)1

5-Methyltetrahydrofolate

Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39

2-Methyltetrahydrofuran

Enantiomer separation by complexation gas and supercritical fluid chromatography on immobilized polysiloxane-bonded nickel(II) bis[(3-heptafluorobutanoyl)-10-methylene-(1*R*)-camphorate] (Chirasil-nickel) 638(1993)85

Methylthioadenosine

Two-dimensional high-performance liquid chromatographic method for assaying S-adenosyl-L-methionine and its related metabolites in tissues 619(1993)191

Methylthiouracil

Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291

N-Methyl-2,4,6-trinitrophenylnitramine

Determination of the explosive 2,4,6-trinitrophenylmethyl nitramine (tetryl) and its transformation products in soil 605(1992)227

5-Methyltryptophan

Adsorption chromatography on cellulose. VII. Chiral separations on cellulose with aqueous solvents 604(1992)55

Methyl vinyl ketone

Development of automated gas chromatographic-mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

Metolcarb

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Metoprine

Determination of isomeric N-oxide metabolites of some substituted 2,4-diaminopyrimidines by reversed-phase ion-pair high-performance liquid chromatography 616(1993)79

Metoprolol

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Metrifonate

Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples 612(1993)336

Methodological commentary on the analysis of metrifonate and dichlorvos in biological samples. Reply to Aden Abdi *et al.* 612(1993)338

Mevalonate

Simultaneous determination of mevalonate and 7 α -hydroxycholesterol in human plasma by gas chromatography-mass spectrometry as indices of cholesterol and bile acid biosynthesis 613(1993)185

Mevinphos

Chromatographic analysis of *cis*- and *trans*-mevinphos in poisoned wildlife 609(1992)315

Mexiletine

High-performance liquid chromatographic method for resolving the enantiomers of mexiletine and two major metabolites isolated from microbial fermentation media 616(1993)253

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

High-performance liquid chromatographic determination of mexiletine in film-coated tablets using a new polymeric stationary phase 635(1993)155

Some aspects of the enantio-recognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocainide and mexiletine as model compounds 645(1993)233

Microtubule inhibitor

High-performance liquid chromatographic assay for the measurement of the novel microtubule inhibitor 1069C85 in biological tissues and fluids 622(1993)243

Midazolam

High-performance liquid chromatographic method for the enantiomeric separation of the chiral metabolites of midazolam 609(1992)395

Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography 619(1993)154

Liquid chromatography-mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Midkine

Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213

Milk proteins

Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81

Mineral acids

Simultaneous separation of alkali and alkaline-earth cations on polybutadiene-maleic acid-coated stationary phase by mineral acid eluents 640(1993)41

Mitomycin C

Determination of mitomycin C, 2,7-diaminomitosen, 1,2-*cis*- and 1,2-*trans*-1-hydroxy-2,7-diaminomitosen in tumour tissue by high-performance liquid chromatography 612(1993)105

C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen-DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245

Determination of mitomycin C in human aqueous humor and serum by high-performance liquid chromatography 619(1993)148

Mizolastine

Determination of mizolastine, a new antihistaminic drug, in human plasma by liquid-liquid extraction, solid-phase extraction and column-switching techniques in combination with high-performance liquid chromatography 619(1993)275

Modafinil

Optimization of the mobile phase for the liquid chromatographic separation of modafinil optical isomers on a Chiral-AGP column 605(1992)19

Molecular mass distribution

Size-exclusion chromatography of cellulose and chitin using lithium chloride-N,N-dimethylacetamide as a mobile phase 635(1993)334

Molybdate

Ion chromatographic analysis of inorganic molecular metal-oxygen cluster compounds 602(1992)173

12-Molybdophosphoric acid

Ion chromatographic analysis of inorganic molecular metal-oxygen cluster compounds 602(1992)173

Monoacetyldapson

Simultaneous determination of dapson, monoacetyldapson and pyrimethamine in whole blood and plasma by high-performance liquid chromatography 613(1993)340

6-Monoacetylmorphine

Simultaneous determination of 6-monoacetylmorphine, morphine and codeine in urine using high-performance liquid chromatography with combined ultraviolet and electrochemical detection 617(1993)152

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Monoalkylammonium compounds

Reversed-phase liquid chromatography using monoalkylammonium compounds in the mobile phase. Effects of monoalkylammonium chain length on the efficiency, selectivity and separation of xanthine and uric acid derivatives 604(1992)203

Monoamine oxidase inhibitors

Porous graphitized carbon and octadecylsilica columns in the separation of some monoamine oxidase inhibitory drugs 631(1993)207

Monoamines

Simultaneous measurement of monoamines, metabolites and amino acids in brain tissue and microdialysis perfusates 614(1993)213

Monobromobimane

Use of monobromobimane to resolve two recombinant proteins by reversed-phase high-performance liquid chromatography based on their cysteine content 627(1992)137

Monochlorobiphenyl

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

Monoclonal antibodies

see also Antibodies

Effect of buffer constituents on the determination of therapeutic proteins by capillary electrophoresis 608(1992)197

Immunoaffinity chromatography of recombinant *Amb a 1* in the presence of a denaturing agent 631(1993)269

Capillary micellar electrokinetic, sequential multiwavelength chromatographic characterization of a chimeric monoclonal antibody-cytotoxin conjugate 635(1993)313

Isoprotein analysis by ion-exchange chromatography using a linear pH gradient combined with a salt gradient 639(1993)41

Membrane chromatography for rapid purification of recombinant antithrombin III and monoclonal antibodies from cell culture supernatant 639(1993)57

Monocyclic esters

Direct determination of enantiomeric excess of carbocyclic esters by chiral capillary gas chromatography 648(1993)497

Monodesethylchloroquine

Simultaneous determination of chloroquine and quinine in human biological fluids by high-performance liquid chromatography 613(1993)303

N-Monodesmethyladitoprim

Determination of aditoprim and its oxidative metabolites in plasma and microsomal incubation mixtures by high-performance liquid chromatography 612(1993)115

Monohydroxy fatty acids

Quantitation of monohydroxy fatty acids by high-performance liquid chromatography with fluorescence detection 622(1993)147

Monomethoxy-polyethylene glycol

Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71

Monomethylacrylamide

Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333

N-Monomethylformamide

Simultaneous determination of N,N-dimethylformamide, N-monomethylformamide and N-hydroxymethyl-N-methylformamide in rat plasma by capillary gas chromatography 615(1993)154

2-Monoolein

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Monosaccharides

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Monoterpenes

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Monoterpenoids

Structurally informative response patterns of some monoterpenoids found in volatile oils to gas chromatography on two commercial dipentylated cyclodextrin phases 639(1993)366

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Monuron

Ion spray mass spectrometric detection for liquid chromatography: a concentration- or a mass-flow-sensitive device? 647(1993)51

Moprolol

Identification and determination of the enantiomers of moprolol and their metabolites in human urine by high-performance liquid chromatography and gas chromatography-mass spectrometry 622(1993)187

Morphine

High-performance liquid chromatographic determination of morphine and its metabolites in plasma using diode-array detection 615(1993)164

Simultaneous determination of 6-monoacetylmorphine, morphine and codeine in urine using high-performance liquid chromatography with combined ultraviolet and electrochemical detection 617(1993)152

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Ion-pair extraction and liquid chromatographic analysis of morphine in rat brain and plasma 621(1993)165

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Capillary electrophoresis for the investigation of illicit drugs in hair: determination of cocaine and morphine 638(1993)303

Morphine glucuronides

High-performance liquid chromatographic determination of morphine and its metabolites in plasma using diode-array detection 615(1993)164

Determination of morphine-3-glucuronide in human urine by capillary zone electrophoresis and micellar electrokinetic capillary chromatography 616(1993)305

Morpholine

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Morsuximide

Improved chiral recognition of some compounds via the simultaneous use of β -cyclodextrin and its permethylated derivative in a reversed-phase high-performance liquid chromatographic system 625(1992)349

Mucus

Molecular fractionation of gastric mucus component by high-performance liquid chromatography: application to pig gastric mucus *in vitro* and to human gastric mucus collected by aspiration during gastric endoscopy 614(1993)27

Muramic acid

Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93

High-performance liquid chromatographic quantitation of phenylthiocarbamyl muramic acid and glucosamine from bacterial cell walls 632(1993)63

Mustard gas

Determination of mustard gas and related vesicants in rubber and paint by gas chromatography-mass spectrometry 625(1992)382

Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283

Mycolic acid

Gas chromatographic whole-cell fatty acid analysis as an aid for the identification of mixed mycobacterial cultures 617(1993)299

Mycotoxins

Automation of a clean-up procedure for determination of trichothecenes in cereals using a charcoal-alumina column 603(1992)290

Identification of mycotoxins in keratomycosis-derived *Fusarium* isolates by gas chromatography-mass spectrometry 620(1993)243

Supercritical fluid chromatography of *Fusarium* mycotoxins 627(1992)247

Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Myoglobin

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Myohemerythrin

High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11

Myristic acid methyl esters

Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451

Myristyl myristate

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

N**Nalmefene**

Determination of nalmefene in plasma by high-performance liquid chromatography with electrochemical detection and its application in pharmacokinetic studies 613(1993)359

Naloxone

Measurement of naloxone in plasma using high-performance liquid chromatography with electrochemical detection 614(1993)117

Naphthalenes

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography-mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Optimization of the separation selectivity of a group of benzene and naphthalene derivatives in micellar high-performance liquid chromatography using a C₁₈ column and alcohols as modifiers in the mobile phase 646(1993)297

Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469

Naphthamides

Chromatographic investigation of the slowly interconverting atropisomers of hindered naphthamides 648(1993)101

Naphthoic acid

Determination of dissociation constants of aromatic carboxylic acids by ion chromatography 639(1993)333

Naphthosulphobenzoporphyrazines

Chromatographic analysis of asymmetric sulphophthalocyanines using a diode-array detector 634(1993)57

Naphthylaminesulphonic acids

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

Naproxen

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Resolution of carboxylic acid enantiomers by high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 627(1992)75

Examination of the retention behavior of underivatized profen enantiomers on cyclodextrin silica stationary phases 634(1993)197

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Capillary zone electrophoresis-ionspray mass spectrometry of a synthetic drug-protein conjugate mixture 647(1993)361

Naringin

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

Neomycin

Determination of aminoglycoside antibiotics in pharmaceuticals by capillary zone electrophoresis with indirect UV detection coupled with micellar electrokinetic capillary chromatography 606(1992)229

Neon

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Neopterin

Simple column liquid chromatographic assay for serum neopterin 614(1993)164

Analysis of 6R- and 6S-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249

Neostigmine

Gas chromatographic screening for neostigmine and physostigmine using temperature-programmed retention indices 648(1993)501

Neoxanthin

High-performance liquid chromatography-diode-array detection of photosynthetic pigments 607(1992)215

Neurofilament

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Neurohypophyseal peptides

Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95

Neuropeptides

see also β -Endorphins and Enkephalins

High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53

Separation of neuropeptide Y diastereomers by high-performance liquid chromatography and capillary zone electrophoresis 648(1993)257

Neurotoxins

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Neurotransmitters

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Neurotrophic factor, brain-derived

Conformational changes of brain-derived neurotrophic factor during reversed-phase high-performance liquid chromatography 632(1993)29

Kinetics of recombinant human brain-derived neurotropic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91

Nickel

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)resorcinol and Arsenazo-III 605(1992)63

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Capillary gas chromatographic determination of copper and nickel using microwave-induced plasma atomic emission detection 636(1993)271

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Nickel complexes

Thin-layer chromatography on silica gel of a homologous series of bis(alkylxanthato)nickel(II) complexes 628(1993)148

Nicorandil

Sensitive method for determination of nicorandil in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection 617(1993)163

High-performance liquid chromatographic method for stability and pharmacokinetic studies of nicorandil 619(1993)336

Nicotinamide

Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection 625(1992)377

Nicotine

Determination of nicotine and two major metabolites in serum by solid-phase extraction and high-performance liquid chromatography, and high-performance liquid chromatography-particle beam mass spectrometry 612(1993)209

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

High-performance liquid chromatographic determination of nicotine and its urinary metabolites via their 1,3-diethyl-2-thiobarbituric acid derivatives 613(1993)95

Determination of 4-(methylnitrosamino)-4-(3-pyridyl)butyric acid in tobacco, tobacco smoke and the urine of rats and smokers 620(1993)55

Simple high-performance liquid chromatographic method to verify the direct barbituric acid assay for urinary cotinine 620(1993)254

Identification of radiolabeled metabolites of nicotine in rat bile. Synthesis of *S*-(-)-nicotine *N*-glucuronide and direct separation of nicotine-derived conjugates using high-performance liquid chromatography 621(1993)49

Determination of nicotine and four metabolites in the serum of smokers by high-performance liquid chromatography with ultraviolet detection 621(1993)257

Determination of some narcotic and toxic alkaloidal compounds by overpressured thin-layer chromatography with ethyl acetate as eluent 634(1993)356

Sensitive detection of nicotine after its novel perfluoroacylation and analysis using capillary gas chromatography-electron-capture detection 645(1993)273

S-(-)-Nicotine *N*-glucuronide

Identification of radiolabeled metabolites of nicotine in rat bile. Synthesis of *S*-(-)-nicotine *N*-glucuronide and direct separation of nicotine-derived conjugates using high-performance liquid chromatography 621(1993)49

Nicotine-1'-*N*-oxide

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

Nifedipine

Determination of nifedipine in gingival crevicular fluid: a capillary gas chromatographic method for nifedipine in microlitre volumes of biological fluid 621(1993)95

Nipecotic acid amides

Chiral separation of nipecotic acid amides 609(1992)187

Nitrate

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

Analysis of oxyhalide disinfection by-products and other anions of interest in drinking water by ion chromatography 602(1992)65

Analysis of commercial explosives by single-column ion chromatography 602(1992)149

Regulated methods for ion analysis 602(1992)205

Ion interaction chromatography with nonylamine reagent for the determination of nitrite and nitrate in natural waters 633(1993)305

Simultaneous determination of the three main inorganic forms of nitrogen by ion chromatography 640(1993)161

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Evaluation of ion-exchange chromatography for nitrate determination in wastewaters 644(1993)341

Determination of nitrate in surface waters by ion-exchange chromatography after oxidation of total organic nitrogen to nitrate 644(1993)345

Nitrazepam

Simultaneous determination of nitrazepam and its metabolites in urine by micellar electrokinetic capillary chromatography 621(1993)249

Nitriles

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Nitrioltriacetic acid

Ionophoretic technique in the study of mixed-ligand complexes of biochemical importance in the Co(II)/Cu(II)-adenosine diphosphate nitrioltriacetate system 606(1992)147

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Nitrite

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

Regulated methods for ion analysis 602(1992)205

Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85

Rapid and simple method for the determination of nitrite in synaptosomal superfusates by liquid chromatography with electrochemical detection 619(1993)133

Gas chromatographic determination of trace nitrite after derivatization with ethyl 3-oxobutanoate 629(1993)339

Ion chromatography of nitrite and carbonate in inorganic matrices on an octadecyl-poly(vinyl alcohol) gel column using acidic eluents 630(1993)195

Ion interaction chromatography with nonylamine reagent for the determination of nitrite and nitrate in natural waters 633(1993)305

Simultaneous determination of the three main inorganic forms of nitrogen by ion chromatography 640(1993)161

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

End-column electrochemical detection for inorganic and organic species in high-voltage capillary electrophoresis 640(1993)433

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Nitroaromatic compounds

Determination of RDX, 2,4,6-trinitrotoluene and other nitroaromatic compounds by high-performance liquid chromatography with photodiode-array detection 645(1993)89

4-Nitrocatechol

High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-4502E1 activity, in human liver microsomes 616(1993)73

2-Nitrofluorene

Solid-phase extraction and gas chromatographic-mass spectrometric determination after hydrolysis of 2-aminofluorene haemoglobin adducts in blood of rats 619(1993)215

Nitrogen

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Nitrogen, total

Determination of nitrate in surface waters by ion-exchange chromatography after oxidation of total organic nitrogen to nitrate 644(1993)345

4-Nitrophenol

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-4502E1 activity, in human liver microsomes 616(1993)73

Nitro-polynuclear aromatic hydrocarbons

Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287

Nitrosamines

Sensitive assay system for nitrosamines utilizing high-performance liquid chromatography with peroxyoxalate chemiluminescence detection 634(1993)221

N-Nitroso-N-alkylureas

High-performance liquid chromatographic determination of N-nitroso-N-alkylureas by pre-column fluorescence derivatization and application to blood analysis 621(1993)157

Nitroxylin

High-performance liquid chromatographic method for the determination of the anthelmintic nitroxylin in cattle muscle tissue with on-line anion-exchange clean-up 613(1993)347

NK 611

Determination of the new podophyllotoxin derivative NK 611 in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)233

Noble gases

Cyclodextrin stationary phases for the gas-solid chromatographic separation of inorganic gases 633(1993)143

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Noble metals

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Nonadecafluorodecanoic acid

Volatile ion-pairing agents for liquid chromatographic-thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

***n*-Nonadecenes**

Separation and identification of all isomeric *n*-nonadecenes by capillary gas chromatography on a mesogenic stationary phase with Fourier transform infrared and mass spectrometric detection 609(1992)283

Non-benzodiazepine anxiolytic

High-performance liquid chromatographic method for determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine 613(1993)105

Enantioselective determination of DN-2327, a novel non-benzodiazepine anxiolytic, and/or its active metabolite in human plasma and urine using high-performance liquid chromatography 613(1993)113

Non-steroidal antiinflammatory drugs

Capillary gas chromatography of acidic non-steroidal antiinflammatory drugs as *tert*-butyldimethylsilyl derivatives 641(1993)319

Nonylamine

Ion interaction chromatography with nonylamine reagent for the determination of nitrite and nitrate in natural waters 633(1993)305

Nonylphenol polyethoxylates

Reversed-phase high-performance liquid chromatographic determination of linear alkylbenzene sulphonates, nonylphenol polyethoxylates and their carboxylic biotransformation products 644(1993)59

Nonylphenoxy carboxylates

Reversed-phase high-performance liquid chromatographic determination of linear alkylbenzene sulphonates, nonylphenol polyethoxylates and their carboxylic biotransformation products 644(1993)59

Noradrenaline

see Norepinephrine

Norbuprenorphine

Column-switching solid-phase trace-enrichment high-performance liquid chromatographic method for measurement of buprenorphine and norbuprenorphine in human plasma and urine by electrochemical detection 614(1993)275

Norcocaine

Quantitation of benzoylecgonine and other cocaine metabolites in meconium by high-performance liquid chromatography 613(1993)330

Nordexfenfluramine

Determination of dexfenfluramine and nordexfenfluramine in urine by high-performance liquid chromatography using ultraviolet detection 621(1993)115

Nordiazepam

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Norditerpenes

Identification and quantification of 18-nor- and 19-norditerpenes and their chlorinated analogues in samples of sediment and fish 643(1993)439

Norephedrine

Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269

Direct determination of ephedrine and norephedrine in human urine by capillary zone electrophoresis 622(1993)103

Norepinephrine

Determination of catecholamines in rat heart tissue and plasma samples by liquid chromatography with electrochemical detection, by B.-M. Eriksson and B.-A. Persson, *J. Chromatogr.*, 228 (1982) 143 612(1993)1

- Effect of carbon in-line filters on catecholamine analysis by high-performance liquid chromatography with coulometric electrochemical detection 615(1993)339
- Plasma catecholamine levels in children 617(1993)304
- Determination of catecholamines in urine and plasma by on-line sample pretreatment using an internal surface boronic acid gel 620(1993)175
- Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3
- Binding characteristics of various neurochemicals to glassy carbon 645(1993)219
- Norfloroxacin**
Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105
- Norfluoxetine**
Determination of fluoxetine and norfluoxetine in human plasma by capillary gas chromatography with electron-capture detection 614(1993)175
- Norgestimate**
Preparative separation and properties of (*E*)- and (*Z*)-steroidal α,β -unsaturated ketoximes 635(1993)342
- Normetanephrine**
Isotope dilution ammonia chemical ionization mass fragmentographic analysis of urinary 3-O-methylated catecholamine metabolites. Rapid sample clean-up by derivatization and extraction of lyophilized samples 617(1993)181
- Nornicotine**
Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49
- Norpropoxyphene**
Simultaneous determination of dextromoramide, propoxyphene and norpropoxyphene in necropsic whole blood by liquid chromatography 615(1993)357
- Norpseudoephedrine**
Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269
- Nortestosterone**
Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403
- 11-Nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid**
Confirmation testing of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in urine with micellar electrokinetic capillary chromatography 608(1992)251
- Gas chromatographic-mass spectrometric quantitation of urinary 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid after derivatization by direct extractive alkylation 617(1993)265
- Nortriptyline**
Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135
- Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181
- Norverapamil**
Analytical and preparative resolution of enantiomers of verapamil and norverapamil using a cellulose-based chiral stationary phase in the reversed-phase mode 648(1993)381
- Noscapine**
High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143
- Nuclear proteins**
Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275
- Nuclease**
Separation of isoforms of *Serratia marcescens* nuclease by capillary electrophoresis 645(1993)353
- Nucleic acid constituents**
Isotachopheresis of nucleic acid constituents (Review) 618(1993)57
- Nucleic acids**
see also Special issue index
- Nucleic acids**
see also DNA and RNA
- High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111
- High-performance liquid chromatographic determination of acridine orange in nucleic acids isolated from dye-treated *Himantormia lugubris* thalli 607(1992)245
- Methods for recovering nucleic acid fragments from agarose gels (Review) 618(1993)95

Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105

Size-dependent chromatographic separation of nucleic acids (Review) 618(1993)203

Application of high-performance liquid chromatography for recognition of covalent nucleic acid modification with anticancer drugs (Review) 618(1993)251

Electrophoretic and chromatographic separation methods used to reveal interstrand crosslinking of nucleic acids (Review) 618(1993)277

Methods used for analyses of "environmentally" damaged nucleic acids (Review) 618(1993)289

Affinity chromatography with nucleic acid polymers (Review) 618(1993)315

Detection of point mutations in DNA using capillary electrophoresis in a polymer network 621(1993)149

Comparative study of capillary zone electrophoresis and high-performance liquid chromatography in the analysis of oligonucleotides and DNA 625(1992)331

Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57

Quantitation of 5-methylcytosine by one-dimensional high-performance thin-layer chromatography 645(1993)189

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Nucleobases

Determination of the reactivity of uracil derivatives with respect to methyl iodide by high-performance thin-layer chromatographic densitometry 604(1992)261

Reversed-phase and ion-pair separations of nucleotides, nucleosides and nucleobases: analysis of biological samples in health and disease (Review) 618(1993)3

Nucleoside analogues

High-performance liquid chromatographic determination of the isomeric purity of a series of dioxolane nucleoside analogues 645(1993)107

Nucleosides

Separation of nucleotides and nucleosides by gradient macrocycle-based ion chromatography 602(1992)189

Capillary electrophoresis of fluorescein-ethylenediamine-5'-deoxynucleotides 608(1992)171

Effect of addition of glucose on micellar electrokinetic capillary chromatography with sodium dodecyl sulphate 609(1992)369

Reversed-phase and ion-pair separations of nucleotides, nucleosides and nucleobases: analysis of biological samples in health and disease (Review) 618(1993)3

Capillary electrophoresis of glycoconjugates in alkaline media 632(1993)195

Optimized separation of purine bases and nucleosides in human cord plasma by capillary zone electrophoresis 636(1993)105

High-performance liquid chromatography of guanine and its nucleosides and nucleotides by pre-column fluorescence derivatization with phenylglyoxal reagent 641(1993)235

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Separation of the anomers and isomers of 2'-deoxyuridine and thymidine by capillary zone electrophoresis 648(1993)299

Nucleotides

see also Special issue index

Nucleotides

Separation of nucleotides and nucleosides by gradient macrocycle-based ion chromatography 602(1992)189

Capillary electrophoresis of fluorescein-ethylenediamine-5'-deoxynucleotides 608(1992)171

Reversed-phase and ion-pair separations of nucleotides, nucleosides and nucleobases: analysis of biological samples in health and disease (Review) 618(1993)3

Improved high-performance liquid chromatographic analysis of intracellular deoxyribonucleoside triphosphate levels 619(1993)29

Fraction collection after an optimized micellar electrokinetic capillary chromatographic separation of nucleic acid constituents 638(1993)363

High-performance liquid chromatography of guanine and its nucleosides and nucleotides by pre-column fluorescence derivatization with phenylglyoxal reagent 641(1993)235

Efficient separation of natural ribonucleotides by low-pressure anion-exchange chromatography 644(1993)299

Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57

Nucleotides, glycosylated

Chromatographic separation of glycosylated nucleotides 612(1993)57

Nylon-6

Measurement of infinite dilution diffusion coefficients of ϵ -caprolactam in nylon 6 at elevated temperatures by inverse gas chromatography 607(1992)145

O

Obidoxime chloride

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Ochratoxin

Automated liquid chromatographic determination of ochratoxin A in cereals and animal products using immunoaffinity column clean-up 603(1992)285

Determination of ochratoxin A in urine and faeces of swine by high-performance liquid chromatography 613(1993)295

Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Octadecanoic acids

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

cis-Octadecenoates

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

Octanesulphonate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Dialytic clean-up of alkaline samples prior to ion chromatographic analysis 602(1992)57

Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101

p-Octopamine

Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 617(1993)11

Octyl dimethyl p-aminobenzoate

Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Octylglucoside

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Octylphenol

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Octylphenol, polyethoxylated

Rapid separation of non-ionic surfactants of polyethoxylated octylphenol and determination of ethylene oxide oligomer distribution by C1 column reversed-phase liquid chromatography 637(1993)145

Oestr...

see Estr...

Oils

High-performance liquid chromatographic investigations of stilingia oil 603(1992)165

Oleic acids

Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97

Silver ion high-performance liquid chromatography of derivatives of isomeric fatty acids 609(1992)133

Separation of isomeric compounds by reversed-phase high-performance liquid chromatography using Ag^+ complexation. Application to *cis-trans* fatty acid methyl esters and retinoic acid photoisomers 634(1993)251

Oligoalanines

Oligoglycines and oligoalanines as tests for modelling mobility of peptides in capillary electrophoresis 636(1993)81

Oligodeoxynucleotides

Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137

Oligodeoxyribonucleoside phosphoramidates

Optimization of the separation of oligodeoxyribonucleoside phosphoramidates and their characterization by circular dichroism spectroscopy 648(1993)157

Oligogalacturonic acids

Separation of oligogalacturonic acids by high-performance gel filtration chromatography on silica gel with diol radical
603(1992)139

Oligoglycines

Oligoglycines and oligoalanines as tests for modelling mobility of peptides in capillary electrophoresis 636(1993)81

Oligomers

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography–thermospray mass spectrometry 627(1992)63

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Anion-exchange selectivity of cyclic phosphate oligomers 644(1993)198

Analysis of polyethylene glycols with respect to their oligomer distribution by high-performance liquid chromatography 645(1993)135

Oligonucleotides

High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns 603(1992)111

Influence of pH on the migration properties of oligonucleotides in capillary gel electrophoresis 608(1992)175

Prediction of the behaviour of oligonucleotides in high-performance liquid chromatography and capillary electrophoresis (Review) 618(1993)41

Comparative study of capillary zone electrophoresis and high-performance liquid chromatography in the analysis of oligonucleotides and DNA 625(1992)331

Micro vials on a silicon wafer for sample introduction in capillary electrophoresis 626(1992)310

High-performance liquid chromatography of the photoproducts of nucleic acid components. III. Detection of the secondary structure differences in sequence isomeric self-complementary oligonucleotides 648(1993)151

Oligonucleotides, phosphoramidate-bridged

Resolution of diastereomeric phosphoramidate bridged unnatural oligonucleotides by micellar electrokinetic chromatography 636(1993)113

Oligosaccharide alditols

High-performance liquid chromatography of oligosaccharide alditols and glycopeptides on a graphitized carbon column 609(1992)125

Separation of neutral oligosaccharide alditols from human meconium using high-pH anion-exchange chromatography 622(1993)137

Oligosaccharides

Gas chromatography–mass spectrometry method for the determination of the reducing end of oligo- and polysaccharides 606(1992)285

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Chiral separation by capillary electrophoresis with oligosaccharides 608(1992)275

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

Analysis of legume oligosaccharides by high-resolution gas chromatography 623(1992)186

Characterization of sugar oligomers by on-line high-performance anion-exchange chromatography–thermospray mass spectrometry 627(1992)63

Use of a porous graphitised carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317

Electrospray mass spectrometry of neutral and acidic oligosaccharides: methylated cyclodextrins and identification of unknowns derived from fruit material 647(1993)279

Recent progress in high-performance anion-exchange chromatography–thermospray mass spectrometry of oligosaccharides 647(1993)319

High-performance liquid chromatography of neutral oligosaccharides on a β -cyclodextrin bonded phase column 648(1993)131

Oligothymidylic acids

Temperature-programmed capillary affinity gel electrophoresis for the sensitive base-specific separation of oligodeoxynucleotides 632(1993)137

Olsalazine

Enhanced chromatographic peak-purity evaluation of phenolic solutes using pH-induced spectral transformations 626(1992)127

Omeprazole

High-performance liquid chromatographic assay for human liver microsomal omeprazole metabolism 619(1993)291

Packed-column supercritical fluid chromatography of omeprazole and related compounds. Selection of column support with triethylamine- and methanol-modified carbon dioxide as the mobile phase 628(1993)275

Omeprazole sulphone

High-performance liquid chromatographic assay for human liver microsomal omeprazole metabolism 619(1993)291

Ondansetron

High-performance liquid chromatographic separation of ondansetron enantiomers in serum using a cellulose-derivatized stationary phase and solid-phase extraction 622(1993)291

Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101

OPC-18790

Stereoselective high-performance liquid chromatographic assay for the determination of OPC-18790 enantiomers in human plasma and urine 620(1993)97

Organic acids

see also Carboxylic acids and Fatty acids

Evaluation of low-conductance eluents for suppressed ion-exclusion chromatography 602(1992)27

Determination of trace amounts of carboxylic acids in ambient air by capillary gas chromatography-mass spectrometry 609(1992)297

Use of a thick-film capillary column for the analysis of organic acids in body fluids 615(1993)127

Quantitative organic acid analysis in cerebrospinal fluid and plasma: reference values in a pediatric population 617(1993)1

Quantification of methylmalonic acid in serum measured by capillary gas chromatography-mass spectrometry as *tert*-butyldimethylsilyl derivatives 620(1993)1

Analysis of urinary organic acids by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 622(1993)263

Comparison of high-performance liquid and gas chromatography in the determination of organic acids in culture media of alkaliphilic bacteria 634(1993)273

Immobilized polyethyleneglycol-based stationary phase for the analysis of amines and organic acids by capillary gas chromatography 637(1993)96

Capillary isotachopheresis of organic acids produced by selected microorganisms during lactic acid fermentation 638(1993)241

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Organic anions

Applications of an alternative stationary phase for the separation of anions by chemically suppressed ion chromatography 602(1992)15

Organic base drugs

Prediction of drug binding to melanin using a melanin-based high-performance liquid chromatographic stationary phase and chemometric analysis of the chromatographic data 615(1993)281

Organic cations

Separation and indirect visible detection of inorganic and organic analyte cations on dye-coated stationary phases 602(1992)97

Organic halogen compounds

Organic micropollutants in Swiss sewage sludge 643(1993)379

Organic pollutants

Factors controlling quantitative supercritical fluid extraction of environmental samples 642(1993)301

Organic priority pollutants

Efficient screening method for determining base/neutral and acidic semi-volatile organic priority pollutants in sediments 643(1993)341

Organic solvents

Application of enantioselective capillary gas chromatography in lipase-catalysed transesterification reactions in organic media 606(1992)288

Organoarsenic compounds

Speciation of arsenic-containing chemical warfare agents by gas chromatographic analysis after derivatization with thioglycolic acid methyl ester 605(1992)257

Organochlorides

Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3

Organochlorine compounds

Field detection of organochlorine pesticides by thermal desorption gas chromatography-mass spectrometry 625(1992)277

Supercritical fluid extraction of synthetic organochlorine compounds in submerged aquatic plants 632(1993)119

Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195

Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205

Liquid-gel partitioning and enrichment in the analysis of organochlorine contaminants (Review) 642(1993)243

Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253

Organophosphonic acids

Identification of degradation products of some chemical warfare agents by capillary electrophoresis-ionspray mass spectrometry 634(1993)113

Organomercury compounds

Evaluation of capillary columns used in the routine determination of methylmercury in biological and environmental materials 605(1992)69

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

High-performance liquid chromatography of inorganic mercury and organomercury with 2-mercaptobenzothiazole 628(1993)133

Organometallic compounds

Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337

Particle beam liquid chromatography-mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79

Organophosphates

Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3

Organophosphorus compounds

Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37

Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59

Determination of organophosphorus pesticides in fruits by on-line size-exclusion chromatography-liquid chromatography-gas chromatography-flame photometric detection 626(1992)145

Explanation of the matrix-induced chromatographic response enhancement of organophosphorus pesticides during open tubular column gas chromatography with splitless or hot on-column injection and flame photometric detection 638(1993)57

Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352

Potential variability problems with the alkali flame ionization detector used in gas chromatography 639(1993)363

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Organotin compounds

Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195

Gas chromatographic determination of inorganic tin in rat urine after a single oral administration of stannous chloride and mono-, di-, and triphenyltin chloride 622(1993)173

Optimization of a flame photometric detector for supercritical fluid chromatography of organotin compounds 636(1993)277

Comparison of flame ionization and inductively coupled plasma mass spectrometry for the detection of organometallics separated by capillary supercritical fluid chromatography 641(1993)337

Alkyltin speciation in sea water with on-line hydride conversion and gas chromatography-atomic emission detection 644(1993)153

Orosomucoid

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Orotic acid

Assessment of the capabilities of capillary zone electrophoresis for the determination of hippuric and orotic acid in whey 608(1992)357

Ostazin Brilliant Red 3-5B-galacturonan

Chromogenic substrate for *endo*-polygalacturonase detection in gels 603(1992)243

Ovalbumin

Isolation of carboxyl-termini and blocked amino-termini of viral proteins by high-performance cation-exchange chromatography 646(1993)193

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Ovomucoid

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Oxadiazon

Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197

Oxalate

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_3^- , Br^- , NO_2^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Oxalate complexes

Separation of some metals as their anionic oxalate complexes by reversed-phase ion-interaction chromatography 635(1993)257

β -N-Oxalyl-L- α , β -diaminopropionic acid

Determination of the neurolethrogen β -N-oxalyl-L- α , β -diaminopropionic acid using high-performance liquid chromatography with fluorometric detection 635(1993)338

Oxamyl

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Oxazepam

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Analysis of oxazepam in urine using solid-phase extraction and high-performance liquid chromatography with fluorescence detection by post-column derivatization 616(1993)344

Oximes

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Oxindole alkaloids

Capillary electrophoretic analysis of oxindole alkaloids from *Uncaria tomentosa* 609(1992)375

Oxine-copper

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Oxiracetam

Determination of oxiracetam in human plasma by reversed-phase high-performance liquid chromatography with fluorimetric detection 631(1993)227

(\pm)-2-[4-(2-Oxocyclohexylidene)methyl]phenylpropionic acid

Stereoselective determination of the active metabolites of a new anti-inflammatory agent (CS-670) in human and rat plasma using antibody-mediated extraction and high-performance liquid chromatography 613(1993)67

Oxolinic acid

High-performance liquid chromatographic method for the determination of oxolinic acid residues in crops 643(1993)311

Oxo-polynuclear aromatic hydrocarbons

Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287

Oxovanadium

Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371

Oxprenolol

Chiral high-performance liquid chromatographic determination of oxprenolol in plasma 621(1993)225

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113

Oxytetracycline

Determination of oxytetracycline in marine shellfish (*Crassostrea gigas*, *Ruditapes philippinarum* and *Scrobicularia plana*) by high-performance liquid chromatography using solid-phase extraction 627(1992)287

Oxythiamine

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Oxytocin

Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95

Observation of a conformational effect in peptide molecule by reversed-phase high-performance liquid chromatography 644(1993)285

P

- P-4502E1 cytochrome**
High-performance liquid chromatographic assay for 4-nitrophenol hydroxylation, a putative cytochrome P-4502E1 activity, in human liver microsomes 616(1993)73
- p66/p51 heterodimer**
Purification, characterization and crystallization of recombinant HIV-1 reverse transcriptase 604(1992)157
- Paclitaxel**
High-performance liquid chromatographic procedure for the quantitative determination of paclitaxel (Taxol®) in human plasma 621(1993)231
- Palladium**
Gas and liquid chromatographic studies of copper(II), nickel(II), palladium(II) and oxovanadium(IV) chelates of some fluorinated ketoamine Schiff bases 639(1993)371
- Palmitine**
Determination of quaternary alkaloids from *Coptidis Rhizoma* by capillary electrophoresis 623(1992)196
- Determination of coptisine, berberine and palmitine in traditional Chinese medicinal preparations by capillary electrophoresis 639(1993)323
- Palmitic acid**
Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97
- Palmitic acid methyl esters**
Supercritical fluid chromatographic separation of fatty acid methyl esters on aminopropyl-bonded silica stationary phase 648(1993)451
- Palmitoyl-CoA**
Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251
- Papaverine**
Switching valve with internal micro precolumn for on-line sample enrichment in capillary zone electrophoresis 608(1992)151
- Paracetamol**
High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143
- Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335
- Paralytic shellfish poisoning toxin**
Analysis of paralytic shellfish poisoning toxins by automated pre-column oxidation and microcolumn liquid chromatography with fluorescence detection 644(1993)321
- Paraoxon**
Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37
- Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49
- Paraquat**
Simultaneous determination of paraquat and diquat in human tissues by high-performance liquid chromatography 617(1993)119
- Determination of paraquat and diquat by liquid chromatography-thermospray mass spectrometry 628(1993)235
- Determination of paraquat in rat brain by high-performance liquid chromatography 643(1993)419
- Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271
- Parthenolide**
Extraction and high-performance liquid chromatographic methods for the γ -lactones parthenolide (*Chrysanthemum parthenium* Bernh.), marrubiin (*Marrubium vulgare* L.) and artemisinin (*Artemisia annua* L.) 605(1992)124
- Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255
- Penicillamine complexes**
Electrophoretic determination of stability constants of Zn(II)- and Cd(II)-nitrilotriacetate-penicillamine mixed complexes 635(1993)171
- Penicillins**
Nanoscale packed capillary liquid chromatography-electrospray ionization mass spectrometry: analysis of penicillins and cepheems 616(1993)45
- Chromatographic methods of analysis for penicillins in food-animal tissues and their significance in regulatory programs for residue reduction and avoidance (Review) 624(1992)171
- Development of an assay for penicillin G in chinook salmon muscle tissue 626(1992)271

High-performance liquid chromatographic separation and electrochemical detection of penicillins 633(1993)111

Determination of penicillin G, ampicillin, amoxicillin, cloxacillin and cephalixin by high-performance liquid chromatography-electrospray mass spectrometry 647(1993)167

***Penicillium roqueforti* toxin**

Determination of *Penicillium roqueforti* toxin by reversed-phase high-performance liquid chromatography 609(1992)205

Pentachlorophenol

In situ extraction and derivatization of pentachlorophenol and related compounds from soils using a supercritical fluid extraction system 605(1992)109

Gas chromatographic determination of halogenated organic compounds in water and sediment in the Skagerrak 643(1993)239

Pentadecanone

Universal set-up for measurement of diffusion coefficients in supercritical carbon dioxide with flame ionization detection 625(1992)311

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1

Pentamidine

High-performance liquid chromatographic determination of pentamidine in plasma 622(1993)255

Pentisomide

High-performance liquid chromatographic method for the simultaneous determination of pentisomide and its major metabolite N-desisopropylpentisomide in plasma, urine and tissues using solid-phase extraction 612(1993)123

Pentobarbital

Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147

Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Pepsin

Human pepsin 3b peptide map sequence analysis, genotype and hydrophobic nature 646(1993)207

Peptides

see also Special issue index

Peptides

Matrix elimination in ion chromatography by "heart-cut" column-switching techniques 602(1992)155

Evaluation of the interaction of protein α -amino groups with M(II) by immobilized metal ion affinity chromatography 604(1992)13

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. I. Analysis of bound metal ions by matrix-assisted UV laser desorption time-of-flight mass spectrometry 604(1992)125

Synthetic metal-binding protein surface domains for metal ion-dependent interaction chromatography. II. Immobilization of synthetic metal-binding peptides from metal ion transport proteins as model bioactive protein surface domains 604(1992)133

Rapid fluorimetric assay for the detection of the peptidyl α -amidating enzyme intermediate using high-performance liquid chromatography 607(1992)25

Attachment of a single fluorescent label to peptides for determination by capillary zone electrophoresis 608(1992)239

Recovery of substance P and related C-terminal fragments on solid-phase extraction cartridges for subsequent high-performance liquid chromatographic separation and radioimmunoassay 612(1993)150

Simplified method for quantitation of angiotensin peptides in tissue 614(1993)19

Kappa marker typing with high-performance liquid chromatography: identification of kappa marker specific tryptic peptide from the kappa light chain of immunoglobulin G 622(1993)9

Analytical and micropreparative separation of peptides by capillary zone electrophoresis using discontinuous buffer systems 623(1992)345

Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3

Anomalous reversed-phase high-performance liquid chromatographic behavior of synthetic peptides related to antigenic helper T cell sites 625(1992)191

Evaluation of peptide-peptide interactions using reversed-phase high-performance liquid chromatography 625(1992)199

Adsorption chromatography on cellulose. VIII. The salting-out behaviour of some peptides with aromatic groups 626(1992)301

- Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107
- Immobilized metal ion affinity chromatography of synthetic peptides. Binding via the α -amino group 627(1992)125
- Simulated quantitative and qualitative isotachophoretic indices of 73 amino acids and peptides in the pH range 6.4–10 628(1993)283
- Protein and peptide mobility in capillary zone electrophoresis. A comparison of existing models and further analysis 630(1993)329
- Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91
- Selectivity of organic solvents in micellar liquid chromatography of amino acids and peptides 631(1993)125
- Kinetic analysis of biotinylation of specific residues of peptides by high-performance liquid chromatography 631(1993)281
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11
- Structural characterization of glycoprotein digests by microcolumn liquid chromatography–ionspray tandem mass spectrometry 632(1993)45
- Recognition of enantiomers by Chiral-Val and oligopeptide analogues as studied by gas-phase calorimetry and ^1H NMR spectroscopy in solution 634(1993)65
- Semi-automated chromatographic procedure for the isolation of acetylated N-terminal fragments from protein digests 634(1993)241
- Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95
- Selective on-line enrichment and separation of peptides having aromatic amino acids at their C-termini by column-switching high-performance liquid chromatography using an anhydrochymotrypsin-immobilized precolumn 637(1993)35
- Electrochemical detection of dipeptides with selectivity against amino acids 638(1993)1
- Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9
- Affinity purification method using a reversible biotinylating reagent for peptides synthesized by the solid-phase technique 638(1993)21
- Photometric detection of amino-containing compounds in capillary isotachopheresis based on reaction with copper(II) ions 638(1993)225
- Capillary zone electrophoresis of pharmaceutical peptides 638(1993)311
- Implementation and use of gradient predictions for optimization of reversed-phase liquid chromatography of peptides. Practical considerations 639(1993)97
- Optimization strategy for reversed-phase liquid chromatography of peptides 639(1993)117
- Influence of column temperature and physico-chemical properties on the electrophoretic behaviour of polyglycine peptides in free-solution capillary electrophoresis 644(1993)175
- Observation of a conformational effect in peptide molecule by reversed-phase high-performance liquid chromatography 644(1993)285
- Effect of the α -amino group on peptide retention behaviour in reversed-phase chromatography. Determination of the pK_a values of the α -amino group of 19 different N-terminal amino acid residues 646(1993)17
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18–36] analogues 646(1993)53
- Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107
- Separation of membrane-embedded tryptic peptides of Na,K-ATPase by size-exclusion chromatography 646(1993)153
- Analytical methods for differentiating minor sequence variations in related peptides 646(1993)75
- Characterisation of TNF- α -related peptides by high-performance liquid chromatography–mass spectrometry and high-performance liquid chromatography–tandem mass spectrometry 646(1993)185

Isolation of carboxyl-termini and blocked amino-termini of viral proteins by high-performance cation-exchange chromatography 646(1993)193

Use of a porous graphitised carbon column for the high-performance liquid chromatography of oligosaccharides, alditols and glycopeptides with subsequent mass spectrometry analysis 646(1993)317

The analysis of multiple phosphoserine-containing casein peptides using capillary zone electrophoresis 646(1993)391

Peptide mapping of recombinant human interferon- γ by reversed-phase liquid chromatography with on-line identification by thermospray mass spectrometry and UV absorption spectrometry 647(1993)3

Evaluation of the performance of capillary liquid chromatography-fast atom bombardment mass spectrometry systems with precolumn addition of glycerol as a viscous matrix 647(1993)13

Origin of the decrease in chromatographic resolution induced by the addition of viscous matrices in liquid chromatographic-fast atom bombardment mass spectrometric systems 647(1993)21

Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a "bio-engineered" variant by high-performance liquid chromatography-fast atom bombardment mass spectrometry 647(1993)301

Comparison of high-performance liquid chromatography and capillary electrophoresis in the analysis of somatostatin analogue peptides 648(1993)251

Separation of neuropeptide Y diastereomers by high-performance liquid chromatography and capillary zone electrophoresis 648(1993)257

Solid-phase derivatization of amino acids and peptides in high-performance liquid chromatography 648(1993)357

Peptides, chiral

High-performance liquid chromatographic enantioseparation of glycyI di- and tripeptides on native cyclodextrin bonded phases. Mechanistic considerations 629(1993)169

Peptides, cyanobacterial

Liquid chromatography-electrospray ionization-mass spectrometry of cyanobacterial toxins 628(1993)215

Peptidoglycan

Determination of bacterial muramic acid by gas chromatography-mass spectrometry with negative-ion detection 628(1993)93

Peptidyl glycine α -amidating enzyme

Rapid fluorimetric assay for the detection of the peptidyl α -amidating enzyme intermediate using high-performance liquid chromatography 607(1992)25

Peptidyl methyl ketones

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Perchlorate

Various approaches to analysis of difficult sample matrices of anions using capillary ion electrophoresis 608(1992)385

Perchloroethylene

Analyses of volatile C₂ haloethanes and haloethenes in tissues: sample preparation and extraction 612(1993)199

Perfluorocarbons

Gas chromatographic separation of perfluorocarbons (Review) 637(1993)1

Permanent gases

Gas chromatography of Titan's atmosphere. IV. Analysis of permanent gases in the presence of hydrocarbons and nitriles with a Molsieve PLOT capillary column 639(1993)255

Permethrin amides

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Peroxidase

Non-dialysis method of rapid and facile sample preparation for the desalting and purification of enzymes and other proteins from plant extracts 646(1993)99

Peroxides

Peroxides. XII. Gas-liquid and high-performance liquid chromatographic analysis of aliphatic hydroperoxides and dialkyl peroxides 637(1993)157

Peroxydicarboxylic acids

Determination of peroxydicarboxylic acids by high-performance liquid chromatography with electrochemical detection 606(1992)49

Perylene

Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305

Pesticides

see also Special issue index

Pesticides

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Comparison of gas chromatographic-mass spectrometric methods for screening of chlorotriazine pesticides in soil 603(1992)175

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

- Specific gas chromatography–mass spectrometry analytical method for the determination of cyhexatin in animal feed 605(1992)129
- Sensitive method for the determination of organophosphorus pesticides in fruits and surface waters by high-performance liquid chromatography with ultraviolet detection 607(1992)37
- Chromatographic isolation of insecticidal amides from *Piper guineense* root 607(1992)105
- Carbosulfan in technical concentrates and formulated products. Liquid chromatographic determination with photodiode-array detection 607(1992)203
- Some observations on clean-up procedures using sulphuric acid and Florisil 607(1992)303
- Identification by gas chromatography–electron-capture detection and gas chromatography–mass spectrometry of the ozonation products in wastewater from dicofol and tetradifon manufacturing 607(1992)311
- Determination of trace levels of herbicides in estuarine waters by gas and liquid chromatographic techniques 607(1992)319
- Normal-phase high-performance liquid chromatography with UV irradiation, morin complexation and fluorescence detection for the determination of organotin pesticides 609(1992)195
- Chromatographic analysis of *cis*- and *trans*-mevinphos in poisoned wildlife 609(1992)315
- Simultaneous determination of paraquat and diquat in human tissues by high-performance liquid chromatography 617(1993)119
- Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 620(1993)61
- Liquid chromatographic determination of 2-hydroxy-3-aminophenazine and 2,3-diaminophenazine as impurities in pesticide formulations containing benomyl or carbendazim 623(1992)168
- Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265
- Chromatographic methods for the determination of pesticides in foods (Review) 624(1992)353
- Liquid chromatographic separation of the enantiomers of diniconazole using a β -cyclodextrin-bonded column 625(1992)231
- Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237
- Field detection of organochlorine pesticides by thermal desorption gas chromatography–mass spectrometry 625(1992)277
- Thin-layer chromatographic study of the lipophilicity of triazine herbicides. Influence of different organic modifiers 625(1992)392
- Flame-based thermionic detection coupled on-line with microcolumn liquid chromatography. I. Optimization of the system 626(1992)59
- Supercritical fluid extraction of polychlorinated biphenyls and pesticides from soil. Comparison with other extraction methods 626(1992)135
- Determination of organophosphorus pesticides in fruits by on-line size-exclusion chromatography–liquid chromatography–gas chromatography–flame photometric detection 626(1992)145
- Gas chromatographic method for simultaneous determination of acephate and methamidophos in bark, cone and seed samples of conifers 627(1992)300
- Optimization of the separation of technical aldicarb by semi-preparative reversed-phase high-performance liquid chromatography 628(1993)127
- Automated solid-phase extraction of herbicides from water for gas chromatographic–mass spectrometric analysis 629(1993)55
- New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the log k' versus organic phase concentration plot 631(1993)49
- Automatic determination of N-methylcarbamate pesticides by using a liquid–liquid extractor derivatization module coupled on-line to a gas chromatograph equipped with a flame ionization detector 633(1993)169
- Utilization of a benchtop mass spectrometer with capillary supercritical fluid chromatography 633(1993)195
- Quantitation of azadirachtins in insecticidal formulations by high-performance liquid chromatography 633(1993)300
- Determination of phenylurea pesticides in water by derivatization with heptafluorobutyric anhydride and gas chromatography–mass spectrometry 634(1993)87
- Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

- Role of capillary electrophoresis in specialty chemical research 636(1993)153
- (Enantio-)separation of phenoxy acid herbicides using capillary zone electrophoresis 637(1993)81
- Gas chromatographic method for the determination of anilophos in soil 637(1993)109
- Simultaneous determination of the herbicides glyphosate, glufosinate and bialaphos and their metabolites by capillary gas chromatography-ion-trap mass spectrometry 637(1993)167
- Explanation of the matrix-induced chromatographic response enhancement of organophosphorus pesticides during open tubular column gas chromatography with splitless or hot on-column injection and flame photometric detection 638(1993)57
- Simultaneous analysis of 25 pesticides in crops using gas chromatography and their identification by gas chromatography-mass spectrometry 639(1993)261
- Determination of carbaryl and some organophosphorus pesticides in drinking water using on-line liquid chromatographic preconcentration techniques 639(1993)352
- Potential variability problems with the alkali flame ionization detector used in gas chromatography 639(1993)363
- Trace determination of weathered atrazine and terbuthylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89
- Partition coefficients (*n*-octanol-water) for pesticides (Review) 642(1993)3
- High-performance liquid chromatographic methods for the determination of *N*-methylcarbamate pesticides in water, soil, plants and air (Review) 642(1993)89
- Solid-phase extraction in multi-residue pesticide analysis of water (Review) 642(1993)135
- Evaluation of a solid-phase extraction system for determining pesticide residues in milk 642(1993)195
- Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205
- Sandwich-type extraction column with on-line sulphuric acid treatment for the determination of organochlorine compounds in vegetable oil or oil seeds by gas chromatography with electron-capture detection 642(1993)253
- Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319
- Fully automated multi-residue method for trace level monitoring of polar pesticides by liquid chromatography 642(1993)359
- Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417
- Environmental Protection Agency and other methods for the determination of priority pesticides and their transformation products in water (Review) 643(1993)117
- Determination of ethylenethiourea in water samples by gas chromatography with alkali flame ionization detection and mass spectrometric confirmation 643(1993)163
- Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173
- Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197
- Solid-phase extraction followed by high-performance liquid chromatographic analysis for monitoring herbicides in drinking water 643(1993)203
- Determination of chlorophenoxy and other acidic herbicide residues in ground water by capillary gas chromatography of their alkyl esters formed by rapid derivatization using various chloroformates 643(1993)227
- Thin-layer chromatographic methods for use in pesticide residue analysis (Review) 643(1993)271
- Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291
- Thin-layer chromatographic behaviour of carbamate pesticides and related compounds 643(1993)321
- Separation of some chlorophenoxyacetic acid congeners on a porous graphitized carbon column 643(1993)331
- Determination of diflubenzuron residues in water by solid-phase extraction and quantitative high-performance thin-layer chromatography 643(1993)337
- High-performance liquid chromatographic analysis of carbofuran residues in tomatoes grown in hydroponics 643(1993)351
- Application of solid-phase partition cartridges in the determination of fungicide residues in vegetable samples 643(1993)363

Organic micropollutants in Swiss sewage sludge 643(1993)379

Determination of paraquat in rat brain by high-performance liquid chromatography 643(1993)419

Automated high-performance liquid chromatographic method for the determination of organophosphorus pesticides in waters with dual electrochemical (reductive-oxidative) detection 644(1993)49

Coupled-column reversed-phase liquid chromatography-UV analyser for the determination of polar pesticides in water 644(1993)307

Alkali flame ionization detector for gas chromatography using an alkali salt aerosol as the enhancement source 644(1993)349

Determination of polar pesticides by phase-transfer catalysed derivatization and negative-ion chemical ionization gas chromatography-mass spectrometry 644(1993)357

On-line combination of automated micro liquid-liquid extraction and capillary gas chromatography for the determination of pesticides in water 644(1993)367

Determination of pesticides in drinking water by on-line solid-phase disk extraction followed by various liquid chromatographic systems 645(1993)125

Determination and confirmation of benomyl and carbendazim in water using high-performance liquid chromatography and diode array detection 645(1993)178

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Characterization of the products formed in the reaction between 1,3-butadienemonoxide and 2'-deoxyadenosine by liquid chromatography-continuous-flow fast atom bombardment mass spectrometry 647(1993)91

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Determination of quaternary amine pesticides by thermospray mass spectrometry 647(1993)271

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis-thermospray tandem mass spectrometry 647(1993)329

Determination of chlorinated pesticides by capillary supercritical fluid chromatography-mass spectrometry with positive- and negative-ion detection 647(1993)341

Petroporphyrins

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

Phaseic acid

Characterization of abscisic acid and metabolites by combined liquid chromatography-mass spectrometry with ion-spray and plasma-spray ionization techniques 623(1992)255

Phenacetin

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Phenanthrenes

Field detection of organochlorine pesticides by thermal desorption gas chromatography-mass spectrometry 625(1992)277

Gas chromatographic retention behaviour of alkylated phenanthrenes on a smectic liquid crystalline phase. Application to organic geochemistry 627(1992)227

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Phenanthro[9,10-*e*]pyrene

High-performance liquid chromatographic study of acenaphthaleno[1,2-*e*]pyrene, phenanthro[9,10-*e*]pyrene and their dihydro derivatives 606(1992)251

Phenobarbital

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Simultaneous determination of carbamazepine, phenytoin, phenobarbital, primidone and their principal metabolites by high-performance liquid chromatography with photodiode-array detection 616(1993)105

Simple and accurate high-performance liquid chromatographic method for the measurement of three antiepileptics in therapeutic drug monitoring 622(1993)47

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Phenol

Simultaneous determination of hydroquinone, catechol and phenol in urine using high-performance liquid chromatography with fluorimetric detection 619(1993)259

Phenolic compounds

Determination of phenolics from propolis by capillary gas chromatography 607(1992)150

Thin-layer chromatographic behaviour of substituted phenolic compounds on silica gel layers impregnated with Al(III) and Cu(II) 607(1992)163

Isolation of the phenolic fraction of coal pyrolysis tars by ion-exchange chromatography 607(1992)353

Determination of phenolic carboxylic acids by micellar electrokinetic capillary chromatography and evaluation of factors affecting the method 608(1992)403

Enhanced chromatographic peak-purity evaluation of phenolic solutes using pH-induced spectral transformations 626(1992)127

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

Multichannel coulometric detection coupled with liquid chromatography for determination of phenolic esters in honey 635(1993)137

Analysis of phenolic and flavonoid compounds in juice beverages using high-performance liquid chromatography with coulometric array detection 635(1993)143

Determination of phenolics from sediments of pulp mill origin by *in situ* supercritical carbon dioxide extraction and derivatization 636(1993)263

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

Phenols

Solute retention in open-tubular liquid chromatography with flowing retentive liquid 605(1992)167

New chromatographic hydrophobicity index (ϕ_0) based on the slope and the intercept of the $\log k'$ versus organic phase concentration plot 631(1993)49

Identification and determination of phenolic constituents in natural beverages and plant extracts by means of a coulometric electrode array system 632(1993)111

Voltage programming in capillary zone electrophoresis 632(1993)149

Prediction of the migration behavior of organic acids in micellar electrokinetic chromatography 632(1993)177

Combined high-performance aqueous size-exclusion chromatographic and pyrolysis-gas chromatographic-mass spectrometric study of lignosulphonates in pulp mill effluents 634(1993)263

Retention indices of phenols for internal standards in reversed-phase high-performance liquid chromatography. Application to retention prediction and selectivities of mobile phases and packing materials 635(1993)61

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Solid-phase extraction of phenols using membranes loaded with modified polymeric resins 641(1993)57

Selective determination of phenols in water by a two-trap tandem extraction system followed by liquid chromatography 642(1993)175

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

Phenones

Reversed-phase high-performance liquid chromatography for evaluating the lipophilicity of pharmaceutical substances with ionization up to $\log P_{app} = 8$ 629(1993)123

Phenothiazines

Direct separation of enantiomers using multiple-interaction chiral stationary phases based on the modified β -cyclodextrin-bonded stationary phase 625(1992)109

Phenoxy acid herbicides

(Enantio-)separation of phenoxy acid herbicides using capillary zone electrophoresis 637(1993)81

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Determination of polar pesticides by phase-transfer catalysed derivatization and negative-ion chemical ionization gas chromatography-mass spectrometry 644(1993)357

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Fast screening method for eight phenoxyacid herbicides and bentazone in water. Optimization procedures for flow-injection analysis-thermospray tandem mass spectrometry 647(1993)329

Phenoxy resin

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Phenprocoumon

Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α_1 -acid glycoprotein chiral stationary phase 644(1993)315

Phenylalanine

Direct enantiomeric separation of phenylalanine, DOPA and their intermediates by supercritical fluid chromatography 605(1992)103

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)methylamino]-6-chloro-*s*-triazine-derived chiral stationary phases 644(1993)277

Phenylalanine anilide

Influence of polymer morphology on the ability of imprinted network polymers to resolve enantiomers 635(1993)31

Phenyl alcohols

Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91

Phenylalkanoic acids

Electrophoretic behavior of aromatic-containing organic acids and the determination of selected compounds in water and soil by capillary electrophoresis 646(1993)377

Phenylaminesulphonic acids

Measurement of partition coefficients by reversed-phase ion-pair liquid chromatography 625(1992)169

Phenylenediamines

Separation of phenylenediamine isomers by capillary zone electrophoresis 625(1992)387

Phenylethanolamine N-methyltransferase

Assay of phenylethanolamine N-methyltransferase activity using high-performance liquid chromatography with ultraviolet absorbance detection 613(1993)51

Phenylethanolamines

Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389

Phenylethylamines

Reversed-phase high-performance liquid chromatographic and derivative UV spectrophotometric determination of α -phenylethylamine in phosphomycin 609(1992)391

Determination of phenylethylamines in hallucinogenic cactus species by high-performance liquid chromatography with photodiode-array detection 623(1992)381

 β -Phenylethyl caffeate

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

1-Phenylethyl isocyanate

Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231

Phenylglycidyl ether

Evaluation of liquid chromatography-thermospray mass spectrometry in the determination of some phenylglycidyl ether-2'-deoxynucleoside adducts 647(1993)211

Phenylactic acids

Use of charged and neutral cyclodextrins in capillary zone electrophoresis: enantiomeric resolution of some 2-hydroxy acids 638(1993)247

N-Phenyllinoleamide

Metabolism of N-phenyllinoleamide by rat liver 615(1993)191

Phenylmercapturic acid

Determination of phenylmercapturic acid in urine of benzene-exposed BDF-1 mice 620(1993)239

Phenylmercury

Simultaneous determination of methyl-, ethyl-, phenyl- and inorganic mercury by cold vapour atomic absorption spectrometry with on-line chromatographic separation 626(1992)151

1-Phenyl-3-methyl-5-pyrazolone

High-performance capillary electrophoresis of unsaturated oligosaccharides derived from glycosaminoglycans by digestion with chondroitinase ABC as 1-phenyl-3-methyl-5-pyrazolone derivatives 608(1992)289

2-Phenyl-1,3-propanediol monocarbamate

Determination of the anticonvulsant felbamate and its three metabolites in brain and heart tissue of rats 614(1993)285

Phenylpropanolamine

Validation of improved methods for high-performance liquid chromatographic determination of phenylpropanolamine, dextromethorphan, guaifenesin and sodium benzoate in a cough-cold formulation 641(1993)241

2-Phenylpropionic acid

Fluorescence derivatization reagent for resolution of carboxylic acid enantiomers by high-performance liquid chromatography 645(1993)75

Phenylthiocarbamyl muramic acid

High-performance liquid chromatographic quantitation of phenylthiocarbamyl muramic acid and glucosamine from bacterial cell walls 632(1993)63

Phenylthiouracil

Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291

Phenyltin chloride

Gas chromatographic determination of inorganic tin in rat urine after a single oral administration of stannous chloride and mono-, di-, and triphenyltin chloride 622(1993)173

Phenylureas

Determination of phenylurea pesticides in water by derivatization with heptafluorobutyric anhydride and gas chromatography-mass spectrometry 634(1993)87

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Phenytoin

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Simultaneous determination of carbamazepine, phenytoin, phenobarbital, primidone and their principal metabolites by high-performance liquid chromatography with photodiode-array detection 616(1993)105

Automated determination of free phenytoin in human plasma with on-line equilibrium dialysis and column-switching high-performance liquid chromatography 621(1993)189

Simple and accurate high-performance liquid chromatographic method for the measurement of three antiepileptics in therapeutic drug monitoring 622(1993)47

Pheophorbides

Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295

Pheromones

Gas chromatographic determination of vapour pressures of pheromone-like acetates 626(1992)215

Phlomiol

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Phloroglucinol

Determination of phloroglucinol in human plasma by gas chromatography-mass spectrometry 617(1993)140

Pholcodine

Automated sample preparation by on-line dialysis and trace enrichment. Analysis of morphine, 6-monoacetylmorphine, codeine, ethylmorphine and pholcodine in plasma and whole blood by capillary gas chromatography and capillary gas chromatography-mass spectrometry 621(1993)41

Phosphate

Determination of trace anions in hydrofluoric acid by ion chromatography 602(1992)75

Differential elution from a Sephadex G-15 column of sodium and phosphate ions of sodium phosphate with sodium or potassium phosphate buffer 604(1992)219

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Effect of temperature on the salt balance of milk studied by capillary ion electrophoresis 640(1993)419

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Phosphates, cyclic

Temperature dependence of the anion-exchange chromatographic behaviour of cyclic phosphate oligomers and their anion-exchange separation 628(1993)241

Phosphatidylcholine

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Simultaneous determination of hydroperoxides of phosphatidylcholine, cholesterol esters and triacylglycerols by column-switching high-performance liquid chromatography with a post-column detection system 622(1993)153

Separation and analysis of amino alcohol-containing diacylglycerophospholipids and their hydrolytic metabolites 636(1993)221

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Phosphatidylethanolamine

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Separation and analysis of amino alcohol-containing diacylglycerophospholipids and their hydrolytic metabolites 636(1993)221

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Phosphatidylglycerol

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Phosphatidylinositol

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Phosphatidylserine

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Phosphinate

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Phosphine oxides

Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329

Phosphoamino acids

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

O-Phosphoamino acids

Identification of O-phosphoamino acids in urine hydrolysate by gas chromatography-mass spectrometry 615(1993)136

Phosphocitrate

High-performance liquid chromatographic and mass spectrometric identification of phosphocitrate synthesized by human kidney homogenate 616(1993)167

Phosphoenolpyruvate

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Phosphoenolpyruvate carboxykinase

Fast high-performance liquid chromatographic purification of *Saccharomyces cerevisiae* phosphoenolpyruvate carboxykinase 625(1992)47

2-Phosphoglycerate

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

Phosphoglycerides

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Phospholipases

Separation and analysis of amino alcohol-containing diacylglycerophospholipids and their hydrolytic metabolites 636(1993)221

Phospholipids

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Analysis of complex mixtures of phospholipid classes from cell membranes using two-dimensional thin-layer chromatography and scanning laser densitometry 614(1993)67

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Phosphomycin

Reversed-phase high-performance liquid chromatographic and derivative UV spectrophotometric determination of α -phenylethylamine in phosphomycin 609(1992)391

Phosphonate

Detection systems with a photodiode-array detector for flow-injection and high-performance liquid chromatographic determination of phosphinate, phosphonate and diphosphonate 641(1993)221

Phosphopeptides

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Phosphoproteins

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Phosphorothioate oligonucleotides

Quantitative analysis of phosphorothioate oligonucleotides in biological fluids using fast anion-exchange chromatography 617(1993)43

Phosphorothioates

High-performance liquid chromatography and capillary gel electrophoresis as applied to antisense DNA 638(1993)293

Phosphorylase

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

O-Phosphoserine

Identification of O-phosphoamino acids in urine hydrolysate by gas chromatography-mass spectrometry 615(1993)136

O-Phosphothreonine

Identification of O-phosphoamino acids in urine hydrolysate by gas chromatography-mass spectrometry 615(1993)136

O-Phosphotyrosine

Identification of O-phosphoamino acids in urine hydrolysate by gas chromatography-mass spectrometry 615(1993)136

Photosystems

Immobilized metal affinity chromatography for the separation of photosystems I and II from the thermophilic cyanobacterium *Synechococcus elongatus* 625(1992)21

o-Phthalaldehyde

Enantioseparation of amino compounds by derivatization with o-phthalaldehyde and D-3-mercapto-2-methylpropionic acid 623(1992)237

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29

Phthalates

Reduction in large-scale adsorption chromatography unit costs by use of 30-Å Sorbsil C30 silica 603(1992)49

Gas chromatographic-mass spectrometric detection of trace amounts of organic compounds in the intravenous solution Infusio Darrowi 603(1992)294

Separation of metal ions by capillary electrophoresis with a complexing electrolyte 640(1993)473

Phycotoxins

Phycotoxins in seafood—toxicological and chromatographic aspects (Review) 624(1992)439

Physostigmine

Gas chromatographic screening for neostigmine and physostigmine using temperature-programmed retention indices 648(1993)501

Phytoecdysteroids

Phytoecdysteroid analysis by high-performance liquid chromatography-thermospray mass spectrometry 641(1993)81

Phytotoxins

Isolation and determination of AAL phytotoxins from corn cultures of the fungus *Alternaria alternata* f. sp. *lycopersici* 641(1993)95

Picolinyl esters

Gas chromatography-mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

Picrocrocin

Methods for the analysis of the saffron metabolites crocin, crocetin, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187

Pigments

Chromatographic analysis of anthocyanins (Review) 624(1992)221

Pilocarpine

Determination of pilocarpine in aqueous humour by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 621(1993)173

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

Analysis of pilocarpine and its *trans* epimer, isopilocarpine, by capillary electrophoresis 638(1993)319

Pimobendan

Simultaneous determination of the enantiomers of pimobendan and its main metabolite in rat plasma by high-performance liquid chromatography 614(1993)135

Pimobendan, main metabolite

Simultaneous determination of the enantiomers of pimobendan and its main metabolite in rat plasma by high-performance liquid chromatography 614(1993)135

Pindolol

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Retention and enantioselective properties of racemic compounds on modified ovomucoid columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Pinocembrin

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

Pipecolic acid

Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239

Piroxicam

Rapid and sensitive determination of piroxicam in rat plasma, muscle and skin by high-performance liquid chromatography 614(1993)103

Plant hormones

High-performance liquid chromatography-thermospray mass spectrometry of gibberellins 603(1992)157

Determination of kinetin in callus of *Panax ginseng* by liquid chromatography 628(1993)122

Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255

Plasmalogens

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Plasmocorinth B

Ion-pair reversed-phase high-performance liquid chromatography for trace metal preconcentration followed by ion-interaction chromatography 640(1993)127

Ion-interaction chromatographic studies on metal ions complexed with Plasmocorinth B dye 640(1993)179

Platelet-activating factor

Development of a high-performance liquid chromatographic-mass spectrometric technique, with an ionspray interface, for the determination of platelet-activating factor (PAF) and lyso-PAF in biological samples 647(1993)261

Platinum complexes

Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101

Platinum group elements

Study of isotachophoretic separation behaviour of metal cations by means of particle-induced X-ray emission. V. Fractionation of platinum group elements from a model solution of nuclear fuel waste by means of continuous free-flow isotachopheresis 638(1993)215

Plumbagin

Determination of plumbagin by normal-phase high-performance liquid chromatography 637(1993)209

Podophyllotoxin derivative

Determination of the new podophyllotoxin derivative NK 611 in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)233

Polar compounds

Characterization of fuels by multi-dimensional supercritical fluid chromatography and supercritical fluid chromatography-mass spectrometry 641(1993)347

Poly(N-acryloyl-S-phenylalanine ethyl ester)

Functionalized polymer particles for chiral separation 630(1993)79

Poly(alkyl oxide)

Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169

Polyamines

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15

Simple high-performance liquid chromatographic assay for polyamines and their monoacetyl derivatives 614(1993)153

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

Systematic analysis of naturally occurring linear and branched polyamines by gas chromatography and gas chromatography-mass spectrometry 641(1993)115

Polyanions

Determination of polyanionic macromolecules by size-exclusion chromatography 622(1993)278

Polybutadiene

Use of thermal field flow fractionation for the fractionation of polybutadiene in various organic solvents 644(1993)83

Polybutylene glycol

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Polychlorinated biphenyls

Simplex optimization of the analysis of polychlorinated biphenyls. Application to the resolution of a complex mixture of congeners of interest on a single gas chromatographic column 607(1992)271

Some observations on clean-up procedures using sulphuric acid and Florisil 607(1992)303

Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317

Supercritical fluid extraction of polychlorinated biphenyls and pesticides from soil. Comparison with other extraction methods 626(1992)135

Determination of coplanar polychlorobiphenyl congeners in biota samples 629(1993)329

Liquid-gel partitioning using Lipidex in the determination of polychlorinated biphenyls in cod liver oil 630(1993)179

Determination of polychlorinated naphthalenes in polychlorinated biphenyl products via capillary gas chromatography-mass spectrometry after separation by gel permeation chromatography 634(1993)79

Chromatographic techniques in accurate analysis of chlorobiphenyls 642(1993)425

Organic micropollutants in Swiss sewage sludge 643(1993)379

Rapid isolation of polychlorinated biphenyls from milk by a combination of supercritical-fluid extraction and supercritical-fluid chromatography 643(1993)409

Polychlorinated dibenzodioxins

Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317

Calculation of retention indices by molecular topology. III. Chlorinated dibenzodioxins 628(1993)69

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography-high-resolution mass spectrometry 630(1993)297

Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25

Study of polychlorinated dibenzodioxins and furans from municipal waste incinerator emissions in the Netherlands: analytical methods and levels in the environment and human food chain (Review) 643(1993)91

Determination of polychlorinated dibenzo-*p*-dioxins and dibenzofurans in tire fire runoff oil 648(1993)213

Polychlorinated dibenzofurans

Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317

Simultaneous determination of planar chlorobiphenyls and polychlorinated dibenzo-*p*-dioxins and -furans in Dutch milk using isotope dilution and gas chromatography-high-resolution mass spectrometry 630(1993)297

Practical method for monitoring polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans in the atmosphere 643(1993)25

Polychlorinated dibenzothiophenes

High-resolution gas chromatographic-mass spectrometric determination of neutral chlorinated aromatic sulphur compounds in stack gas samples 641(1993)309

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Polychlorinated naphthalenes

Determination of polychlorinated naphthalenes in polychlorinated biphenyl products via capillary gas chromatography-mass spectrometry after separation by gel permeation chromatography 634(1993)79

Polychlorinated terphenyls

Environmental analysis of polychlorinated terphenyls: distribution in shellfish from the Ebro Delta (Mediterranean) 643(1993)399

Polycyclic aromatic hydrocarbons

see Polynuclear aromatic hydrocarbons

Polyester oligomers

Application of liquid chromatography-thermospray mass spectrometry to the analysis of polyester oligomers 647(1993)311

Polyethers

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Polyethoxylated octylphenol

Rapid separation of non-ionic surfactants of polyethoxylated octylphenol and determination of ethylene oxide oligomer distribution by C1 column reversed-phase liquid chromatography 637(1993)145

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Polyethylene glycol

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Analysis of polyethylene glycols with respect to their oligomer distribution by high-performance liquid chromatography 645(1993)135

Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169

New ionization strategies in particle-beam liquid chromatography-mass spectrometry based on the principle of surface ionization 647(1993)63

Applications of dual-beam thermospray liquid chromatography-mass spectrometry 647(1993)73

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis-mass spectrometry and tandem mass spectrometry 647(1993)219

Polyethylene glycol 400

Development of directly coupled supercritical fluid chromatography with packed capillary column-mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

Polyethylene glycol esters, N-hydroxysuccinimidyl-activated

Determination of N-hydroxysuccinimidyl-activated polyethylene glycol esters by gel permeation chromatography with post-column alkaline hydrolysis 629(1993)398

Polyethylene oxide-polypropylene oxide block polymer

Chromatographic investigations of macromolecules in the "critical range" of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide-block-propylene oxide) 623(1992)315

Poly(ethylene terephthalate) oligomers

Application of liquid chromatography–thermospray mass spectrometry to the analysis of polyester oligomers 647(1993)311

Polyglutamic acid

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Poly(glutamic acid–tyrosine)

Model studies on iron(III) ion affinity chromatography. II. Interaction of immobilized iron(III) ions with phosphorylated amino acids, peptides and proteins 604(1992)19

Polyglycine peptides

Influence of column temperature and physico-chemical properties on the electrophoretic behaviour of polyglycine peptides in free-solution capillary electrophoresis 644(1993)175

Polyhaematoporphyrin

Capillary electrophoresis analysis of polyhaematoporphyrin, a photosensitizer used in photodynamic therapy 636(1993)171

Polymers

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Separation of glucose polymers by hydrophilic interaction chromatography on aqueous size-exclusion columns using gradient elution with pulsed amperometric detection 607(1992)7

Inverse gas chromatography in the characterization of polymeric materials 607(1992)227

Chromatographic investigations of macromolecules in the “critical range” of liquid chromatography. II. Two-dimensional separations of poly(ethylene oxide–block–propylene oxide) 623(1992)315

Chemical characterization of cellulose acetate by non-exclusion liquid chromatography 629(1993)243

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Design of a differential pressure detector for use in the size-exclusion chromatography of polymers 637(1993)129

Computer simulation study of size-exclusion chromatography with simultaneous viscometry and light scattering measurements 645(1993)209

Characterization of high-molecular-mass polyethylenes by gel permeation chromatography–low-angle laser-light scattering 648(1993)33

Polymers, polydisperse

Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169

Polymyxins

Separation of polymyxins by micellar electrokinetic capillary chromatography 628(1993)309

Polynuclear aromatic compounds

Flame ionization detection relative response factors of some polycyclic aromatic compounds. Determination of the main components of the coal tar pitch volatile fraction 607(1992)295

Application of gas chromatographic retention properties to the identification of environmental contaminants 642(1993)409

Selective clean-up for polynuclear aromatic compounds in airborne particles and soil 643(1993)43

Residue levels of polynuclear aromatic compounds in urban surface soil from Japan 643(1993)305

Use of carotenoids in the characterization of octadecylsilane bonded columns and mechanism of retention of carotenoids on monomeric and polymeric stationary phases 645(1993)29

Polynuclear aromatic hydrocarbons

Development of directly coupled supercritical fluid chromatography with packed capillary column–mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

Efficiency in supercritical fluid chromatography as a function of linear velocity, pressure/density, temperature and diffusion coefficient employing *n*-pentane as the eluent 607(1992)79

Gas chromatographic–mass spectrometric characterization of polycyclic aromatic hydrocarbon mixtures in polluted coastal sediments 607(1992)279

Effect of solvent polarity on the determination of oxo- and nitro-polycyclic aromatic hydrocarbons using capillary gas chromatography with splitless injection 607(1992)287

Progress in the design of selectors for buckminsterfullerene 609(1992)89

Comparison of methods to prevent restrictor plugging during off-line supercritical extraction 609(1992)321

Supercritical fluid extraction of nitrated polycyclic aromatic hydrocarbons and polycyclic aromatic hydrocarbons from diesel exhaust particulate matter 609(1992)333

Gas chromatographic separation of polycyclic aromatic hydrocarbons on a mesomorphic copolysiloxane stationary phase 609(1992)414

- Analysis of organic micropollutants in the lipid fraction of foodstuffs (Review) 624(1992)317
- Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141
- Variables affecting the supercritical fluid extraction of analytes from octadecylsilane solid-phase sorbents 629(1993)3
- Gas chromatographic analysis of high-molecular-mass polycyclic aromatic hydrocarbons. II. Polycyclic aromatic hydrocarbons with relative molecular masses exceeding 328 630(1993)287
- Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91
- Effects of molecular structure on the $\log k'_w$ index and linear S - $\log k'_w$ correlation in reversed-phase high-performance liquid chromatography 633(1993)31
- Prediction of the retention of polynuclear aromatic hydrocarbons in programmed-temperature gas chromatography 634(1993)338
- Effect of stationary phase solvation on shape selectivity in reversed-phase high-performance liquid chromatography 635(1993)177
- Cyclodextrin-modified micellar electrokinetic chromatography: separation of hydrophobic and enantiomeric compounds 636(1993)47
- Shape-selective separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography on tetraphenylporphyrin-based stationary phases 641(1993)49
- High-speed supercritical fluid extraction method for routine measurement of polycyclic aromatic hydrocarbons in environmental soils with dichloromethane as a static modifier 641(1993)357
- Recent advances in the analysis of polycyclic aromatic hydrocarbons and fullerenes (Review) 642(1993)33
- Relationships of structures of nitro-polycyclic aromatic hydrocarbons with high-performance liquid chromatography retention order 642(1993)107
- Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205
- Use of full-spectrum absorbance and emission detectors in environmental analyses (Review) 642(1993)319
- Determination of polycyclic aromatic hydrocarbons by liquid chromatography 642(1993)329
- Analysis of polycyclic aromatic hydrocarbons with an ion-trap mass detector and comparison with other gas chromatographic and high-performance liquid chromatographic techniques 642(1993)351
- Organic micropollutants in Swiss sewage sludge 643(1993)379
- Plane tree bark as a passive sampler of polycyclic aromatic hydrocarbons in an urban environment 643(1993)435
- Determination of anthropogenic and biogenic organic compounds on airborne particles: flash chromatographic fractionation and capillary gas chromatographic analysis 644(1993)141
- Polynuclear metal carbonyl compounds**
Particle beam liquid chromatography-mass spectrometry behaviour of polynuclear metal carbonyl compounds 647(1993)79
- Polynucleotides**
see also Special issue index
- Polyolefins**
Characterization of high-molecular-mass polyethylenes by gel permeation chromatography-low-angle laser-light scattering 648(1993)33
- Polyols**
Analysis of polyols in uremic serum by liquid chromatography combined with atmospheric pressure chemical ionization mass spectrometry 613(1993)9
- Isotachophoretic separation of polyols in boric acid solutions 644(1993)407
- Polyoxyethylene**
Automated analyses of non-ionic surfactants in terms of hydrophobic and polyoxyethylated chain lengths 609(1992)213
- Polypeptides**
High-performance liquid chromatographic separation of aprotinin-like inhibitors and their determination in very small amounts 617(1993)308
- Structural characterization of polypeptides and proteins by combination of capillary electrophoresis and ^{252}Cf plasma desorption mass spectrometry 628(1993)111
- Separation of polymyxins by micellar electrokinetic capillary chromatography 628(1993)309
- Polyphenolic compounds**
Applicability of a postcolumn photochemical reactor in the high-performance liquid chromatography of 34 polyphenolic compounds with UV detection 626(1992)117
- Polyphenols**
Chromatography of tea constituents (Review) 624(1992)293

Liquid chromatographic–UV detection and liquid chromatographic–thermospray mass spectrometric analysis of *Chironia* (Gentianaceae) species. A rapid method for the screening of polyphenols in crude plant extracts 647(1993)191

Polypropylene glycol

Chromatographic investigations of oligomeric α,ω -dihydroxy polyethers by reversed-phase high-performance liquid chromatography and evaporative light scattering and UV detection 635(1993)89

Polysaccharides

Gas chromatography–mass spectrometry method for the determination of the reducing end of oligo- and polysaccharides 606(1992)285

Separation of glucooligosaccharides and polysaccharide hydrolysates by gradient elution hydrophilic interaction chromatography with pulsed amperometric detection 630(1993)129

Characterization of the chemical structure of sulphated glycosaminoglycans after enzymatic digestion. Application of liquid chromatography–mass spectrometry with an atmospheric pressure interface 647(1993)289

Polysaccharides, sulphated

Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A–Sephacrose 615(1993)215

Polystyrene A-300

Development of directly coupled supercritical fluid chromatography with packed capillary column–mass spectrometry with atmospheric pressure chemical ionization 605(1992)87

Polystyrenes

Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355

Dispersion in packed-column hydrodynamic chromatography 634(1993)149

Thermodynamic study of polystyrene–*n*-alkane systems by inverse gas chromatography 641(1993)301

Poly(*tert*-butyl methacrylate)

Critical thin-layer chromatography as a novel method for the determination of the molecular weight and compositional inhomogeneity of block copolymers 609(1992)355

Polyunsaturated fatty acids

High-resolution separation of polyunsaturated fatty acids by argentation thin-layer chromatography 623(1992)403

Poly(N-vinylcaprolactam)

Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367

Polyvinylpyrrolidone

Use of insoluble polyvinylpyrrolidone and isoelectric focusing in the study of humic substances in soils and organic wastes (Review) 643(1993)261

Effect of synthetic polymers, poly(N-vinyl pyrrolidone) and poly(N-vinyl caprolactam), on elution of lactate dehydrogenase bound to Blue Sepharose 648(1993)367

Porphyrins

Formation of zinc complexes during chromatography of porphyrins on fluorescent thin-layer plates 603(1992)231

Separation of vanadyl and nickel petroporphyrins on an aminopropyl column by high-performance liquid chromatography 607(1992)139

High-performance thin-layer chromatographic mobility of porphyrins and their copper complexes on different adsorbents 609(1992)341

Improved method to extract and concentrate porphyrins from liver tissue for analysis by high-performance liquid chromatography 619(1993)127

Modification of reversed-phase liquid chromatographic retention characteristics for metal–tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138

Optimization of separation of porphyrins by micellar electrokinetic chromatography using the overlapping resolution mapping scheme 637(1993)195

Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes 646(1993)397

Potassium

Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317

Chromatographic studies of corrosion sites in metallic materials 640(1993)345

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Potassium channel activators

Separation of the enantiomers of some potassium channel activators using an α_1 -acid glycoprotein column 623(1992)163

Practolol

Theory of chiral separation in capillary electrophoresis 636(1993)57

Pralidoxime chloride

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Prazepam

Gas chromatographic determination of zopiclone in plasma after solid-phase extraction 619(1993)310

Praziquantel

Sensitive high-performance liquid chromatographic assay for praziquantel in plasma, urine and liver homogenates 613(1993)174

Preparative resolution of praziquantel enantiomers by simulated counter-current chromatography 634(1993)215

Pretilachlor

Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197

Primaquine

Simultaneous determination of a new antimalarial agent, CDRI compound 80/53, and its metabolite primaquine in serum by high-performance liquid chromatography 616(1993)155

Primidone

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Simultaneous determination of carbamazepine, phenytoin, phenobarbital, primidone and their principal metabolites by high-performance liquid chromatography with photodiode-array detection 616(1993)105

Priority pollutants

Liquid chromatography-electrochemistry procedure for the determination of chlorophenolic compounds in pulp mill effluents and receiving waters 609(1992)113

Progesterone receptors

Use of automated smoothing and deconvolution procedures for the determination of human breast cancer estrogen and progesterone receptor isoforms, after high-performance size-exclusion chromatography 615(1993)23

Proglumide

Characterization of a Chiral-AGP capillary column coupled to a micro sample-enrichment system with UV and electrospray mass spectrometric detection 631(1993)79

Proinsulin

Analysis of proinsulin and its conversion products by reversed-phase high-performance liquid chromatography (Review) 614(1993)185

Proline

Gas chromatography-mass spectrometry determination of $^{18}\text{O}_2$ in ^{18}O -labelled 4-hydroxyproline for measurement of collagen synthesis and intracellular degradation 612(1993)7

Reversed-phase high-performance liquid chromatographic analysis of hydroxyproline and proline from collagen by derivatization with dabsyl chloride 621(1993)133

Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239

Determination of proline by reversed-phase high-performance liquid chromatography with automated pre-column o-phthalaldehyde derivatization 641(1993)168

Promethazine

Rapid, sensitive high-performance liquid chromatographic method for the quantification of promethazine in human serum with electrochemical detection 631(1993)255

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Prometon

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Prometryne

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Pronethanol

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Propafenone

Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33

2-Propanol

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

Propanols

Methods for the determination of the enantiomeric purity of the C₃-synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Propazine

Micellar electrokinetic capillary chromatography of neutral solutes with micelles of adjustable surface charge density 608(1992)31

Propionic acid

Determination of propionate in bread using capillary zone electrophoresis 627(1992)273

Optimizing dynamic range for the analysis of small ions by capillary zone electrophoresis 641(1993)163

Propofol

Rapid and sensitive pre-column extraction high-performance liquid chromatographic assay for propofol in biological fluids 612(1993)326

Quantitation of propofol in plasma by capillary gas chromatography 615(1993)77

Determination of plasma propofol levels using gas chromatography-mass spectrometry with selected-ion monitoring 620(1993)260

Propoxur

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Determination of N-methylcarbamates and N-methylcarbamoyloximes in water by high-performance liquid chromatography with the use of fluorescence detection and a single *o*-phthalaldehyde post-column reaction 643(1993)317

Propoxyphene

Simultaneous determination of dextromoramide, propoxyphene and norpropoxyphene in necropsic whole blood by liquid chromatography 615(1993)357

Propranolol

Theoretical aspects of chiral separation in capillary electrophoresis. I. Initial evaluation of a model 603(1992)235

Separation of propafenone enantiomers by liquid chromatography with a chiral counter ion 605(1992)33

Theoretical aspects of chiral separation in capillary electrophoresis. II. The role of organic solvent 609(1992)363

Direct high-performance liquid chromatographic determination in urine of the enantiomers of propranolol and its major basic metabolite 4-hydroxypropranolol 612(1993)215

Determination of propranolol, labetalol and clenbuterol in rat brain by high-performance liquid chromatography 613(1993)121

Thermal treatment of supports for chiral stationary phases and its influence on enantioselectivity 623(1992)23

Separation of drug stereoisomers by capillary electrophoresis with cyclodextrins 630(1993)353

On-line sample preconcentration on a packed-inlet capillary for improving the sensitivity of capillary electrophoretic analysis of pharmaceuticals 632(1993)209

Screening of β -blockers in human serum by ion-pair chromatography and their identification as methyl or acetyl derivatives by gas chromatography-mass spectrometry 632(1993)215

Theoretical aspects of chiral separation in capillary electrophoresis. III. Application to β -blockers 635(1993)113

Capillary electrophoresis with on-line sample pretreatment for the analysis of biological samples with direct injection 641(1993)375

Effects on analyte peak performance by separated system peaks in ion-pair adsorption chromatography 648(1993)315

Propylene glycol

Simultaneous determination of ethylene glycol, propylene glycol, 1,3-butylene glycol and 2,3-butylene glycol in human serum and urine by wide-bore column gas chromatography 619(1993)251

Pharmaceutical applications of high-performance liquid chromatography interfaced with Fourier transform infrared spectroscopy 626(1992)97

Propylthiouracil

Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291

5-Propynyluracil

Determination of 1-(β -D-arabinofuranosyl)-5-(1-propynyl)-uracil and a metabolite, 5-propynyluracil, in plasma using ASTED (automated sequential trace enrichment of dialysates) combined, on-line, with high-performance liquid chromatography 617(1993)65

Prostaglandin D₂

Simplification of the mass spectrometric assay for the major urinary metabolite of prostaglandin D₂ 617(1993)124

Prostaglandins

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1

Isomeric separation of Beraprost sodium using an α_1 -acid glycoprotein column 641(1993)249

Prostanoids

Solid-phase extraction of prostanoids using an automatic sample preparation system 607(1992)239

Protease

Application of cross-flow filtration to the purification of biologically active peptides in human plasma after incubation with a protease-rich extract 625(1992)3

Rapid analysis of enzymatic digests of a bacterial protease of the subtilisin type and a "bio-engineered" variant by high-performance liquid chromatography–frit fast atom bombardment mass spectrometry 647(1993)301

Proteinases

Purification of two proteinases from *Aspergillus terreus* by affinity chromatography 639(1993)346

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Proteins

see also Special issue index

Proteins

see also Enzymes

Supports for liquid–liquid partition chromatography in aqueous two-phase systems: a comparison of Superdex and LiParGel 603(1992)73

Protein purification using combined streptavidin (or avidin)-Sephacrose and thiopropyl-Sephacrose affinity chromatography 603(1992)95

Evaluation of the interaction of protein α -amino groups with M(II) by immobilized metal ion affinity chromatography 604(1992)13

Purification of complex protein mixtures by ion-exchange displacement chromatography using spacer displacers 604(1992)39

High-performance hydroxyapatite chromatography of integral membrane proteins and water-soluble proteins in complex with sodium dodecyl sulphate 604(1992)95

Capillary zone electrophoresis of proteins with a dynamic surfactant coating. Influence of a voltage gradient on the separation efficiency 605(1992)115

Analytical and micro-preparative high-performance gel chromatography of proteins with a short column. Determination of molecular size, rapid determination of ligand binding constant and purification of S-carboxymethylated proteins for microsequencing 605(1992)205

Multiple peak formation from reversed-phase liquid chromatography of recombinant human platelet-derived growth factor 606(1992)165

Improvements in the method developed for performing isoelectric focusing in uncoated capillaries 606(1992)291

On-column transient and coupled column isotachophoretic preconcentration of protein samples in capillary zone electrophoresis 608(1992)3

Membrane fraction collection for capillary electrophoresis 608(1992)109

Application of capillary isoelectric focusing with universal concentration gradient detector to the analysis of protein samples 608(1992)121

Effect of buffer constituents on the determination of therapeutic proteins by capillary electrophoresis 608(1992)197

Separation of phosphorylated histone H1 variants by high-performance capillary electrophoresis 608(1992)211

Capillary electrophoresis of hemoglobins and globin chains 608(1992)225

Sodium dodecyl sulfate–capillary gel electrophoresis of proteins using non-cross-linked polyacrylamide 608(1992)349

Application of non-porous silica ultramicrospheres to high-performance liquid chromatographic column packings 609(1992)49

Short fibrous supports for preparative chromatographic separations of biomolecules 609(1992)61

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

Apometallothionein in rat liver 620(1993)191

Direct injection assay of drug enantiomers in serum on ovomucoid-bonded silica materials by liquid chromatography 620(1993)199

Rapid isoelectric focusing of proteins in hydrolytically stable capillaries 623(1992)357

Electrophoresis and chromatography of wheat proteins: available methods, and procedures for statistical evaluation of the data (Review) 624(1992)53

- Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81
- Immobilized metal affinity chromatography for the separation of photosystems I and II from the thermophilic cyanobacterium *Synechococcus elongatus* 625(1992)21
- Purification of the C1 repressor of bacteriophage P1 by fast protein liquid chromatography 625(1992)41
- Activation of topoisomerase II during partial purification by heparin-Sepharose chromatography 625(1992)67
- Separation of oxidized human growth hormone variants by reversed-phase high-performance liquid chromatography. Effect of mobile phase pH and organic modifier 625(1992)207
- Effect of column length and elution mechanism on the separation of proteins by reversed-phase high-performance liquid chromatography 625(1992)217
- Determination of Stokes radii and molecular masses of sodium hyaluronates by Sepharose gel chromatography 627(1992)43
- "Paralogs", sorbent families for protein separations 627(1992)51
- Characterization of the influence of displacing salts on retention in gradient elution ion-exchange chromatography of proteins and peptides 627(1992)107
- Use of monobromobimane to resolve two recombinant proteins by reversed-phase high-performance liquid chromatography based on their cysteine content 627(1992)137
- Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems 630(1993)37
- Ion-exchange displacement chromatography of proteins. Dextran-based polyelectrolytes as high affinity displacers 630(1993)53
- Sequence-specific DNA affinity chromatography: application of a group-specific adsorbent for the isolation of restriction endonucleases 630(1993)151
- Capillary electrophoretic protein separations in polyacrylamide-coated silica capillaries and buffers containing ionic surfactants 630(1993)337
- Determination of the number and relative molecular mass of subunits in an oligomeric protein by two-dimensional electrophoresis. Application to the subunit structure analysis of rat liver amidophosphoribosyltransferase 630(1993)345
- Glycosaminoglycans and proteins: different behaviours in high-performance size-exclusion chromatography 630(1993)390
- Reversed-phase liquid chromatography with microspherical octadecyl-zirconia bonded stationary phases 631(1993)91
- Fimbriated stationary phases for proteins 631(1993)107
- Immunoaffinity chromatography of recombinant *Amb a I* in the presence of a denaturing agent 631(1993)269
- Isolation of plasma proteins from the clotting cascade by heparin affinity chromatography 632(1993)1
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXII. Application of experimentally derived retention coefficients to the prediction of peptide retention times: studies with myohemerythrin 632(1993)11
- Conformational changes of brain-derived neurotrophic factor during reversed-phase high-performance liquid chromatography 632(1993)29
- Immunochemical analysis of proteins. Identification, characterization and purity determination 632(1993)37
- Fundamental and practical aspects of coupled capillaries for the control of electroosmotic flow in capillary zone electrophoresis of proteins 632(1993)157
- Isoelectric focusing field-flow fractionation and capillary isoelectric focusing with electroosmotic zone displacement. Two approaches to protein analysis in flowing streams 632(1993)229
- Two-dimensional protein separation by microcolumn size-exclusion chromatography-capillary zone electrophoresis 633(1993)213
- Capillary zone electrophoresis and packed capillary column liquid chromatographic analysis of recombinant human interleukin-4 633(1993)235
- Analysis of lysosomal degradation of fluorescein isothiocyanate-labelled proteins by Toyopearl HW-40 affinity chromatography 633(1993)281
- Cibacron Blue F3G-A-attached monosize poly(vinyl alcohol)-coated polystyrene microspheres for specific albumin adsorption 634(1993)161
- Protein sorting by high-performance liquid chromatography. I. Biomimetic interaction chromatography of recombinant human deoxyribonuclease I on polyionic stationary phases 634(1993)229
- Semi-automated chromatographic procedure for the isolation of acetylated N-terminal fragments from protein digests 634(1993)241
- Theoretical study of the ion-exchange preparative chromatography of a two-protein mixture 635(1993)1

- Quantitation of non-ideal behavior in protein size-exclusion chromatography 635(1993)51
- Simple device for electroelution of proteins from a large number of pieces of polyacrylamide gel 635(1993)329
- Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9
- Computer simulation and experimental validation of the electrophoretic behavior of proteins. III. Use of titration data predicted by the protein's amino acid composition 638(1993)155
- Experimental aspects of capillary isoelectric focusing with electroosmotic zone displacement 638(1993)187
- Preparative chromatography of biomolecules (Review) 639(1993)3
- Chromatographic profiles of cyanogen bromide fragments of unreduced human serum albumin on immobilized Cibacron Blue F3G-A 639(1993)341
- Analysis and purification of monomethoxy-polyethylene glycol by vesicle and gel permeation chromatography 641(1993)71
- Characterization of each isoform of a $F(ab')_2$ by capillary electrophoresis 641(1993)383
- Salt-induced immobilization of proteins on a high-performance liquid chromatographic epoxide affinity support 644(1993)11
- Studies on a new cross-axis coil planet centrifuge for performing counter-current chromatography. I. Design of the apparatus, retention of the stationary phase, and efficiency in the separation of proteins with polymer phase systems 644(1993)215
- Peculiarities of zone migration and band broadening in gradient reversed-phase high-performance liquid chromatography of proteins with respect to membrane chromatography 645(1993)1
- Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57
- High-performance gel-permeation chromatographic analysis of protein aggregation. Application to bovine carbonic anhydrase 645(1993)101
- Histidine-ligand chromatography of proteins. Multiple modes of binding mechanism 646(1993)31
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXVIII. Effect of D-amino acid substitutions on the reversed-phase high-performance liquid chromatography retention behaviour of neuropeptide Y[18-36] analogues 646(1993)53
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXXVI. Modelling of protein adsorption with non-porous and porous particles in a finite bath 646(1993)67
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXXII. Optimisation of operating parameters for protein purification with chromatographic columns 646(1993)81
- Kinetics of recombinant human brain-derived neurotrophic factor unfolding under reversed-phase liquid chromatography conditions 646(1993)91
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXXI. O-Phosphoserine as a new chelating ligand for use with hard Lewis metal ions in the immobilized-metal affinity chromatography of proteins 646(1993)107
- Improvement in flow properties and pH stability of compressed, continuous polymer beds for high-performance liquid chromatography 646(1993)121
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXIX. Ceramic-based particles as chemically stable chromatographic supports 646(1993)129
- High-performance liquid chromatography of amino acids, peptides and proteins. CXXX. Modified porous zirconia as sorbents in affinity chromatography 646(1993)143
- Rapid high-sensitivity peptide mapping by liquid chromatography-mass spectrometry 646(1993)169
- Isolation of carboxyl-termini and blocked amino-termini of viral proteins by high-performance cation-exchange chromatography 646(1993)193
- Structural characterisation of native and recombinant forms of the neurotrophic cytokine MK 646(1993)213
- High-performance membrane chromatography: highly efficient separation method for proteins in ion-exchange, hydrophobic interaction and reversed-phase modes 646(1993)279
- Behaviour of polyhydroxyethyl methacrylate sorbent with dextran-filled macropores in dye-affinity chromatography of proteins 646(1993)411
- Capillary zone electrophoresis-ionspray mass spectrometry of a synthetic drug-protein conjugate mixture 647(1993)361
- pH effects on non-ideal protein size-exclusion chromatography on Superose 6 648(1993)3
- Size-exclusion chromatography in an analytical perspective 648(1993)19

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Optimization of pressure-flow limits, strength, intraparticle transport and dynamic capacity by hydrogel solids content and bead size in cellulose immunosorbents 648(1993)79

Rapid method for the fractionation of nuclear proteins and their complexes by batch elution from hydroxyapatite 648(1993)275

Hummel-Dreyer method in high-performance liquid chromatography for the determination of drug-protein binding parameters 648(1993)325

Proteins, glucosylated

Selective adsorption of immunoglobulins and glucosylated proteins on phenylboronate-agarose 604(1992)109

Proteins, membrane

Effect of different amounts of the non-ionic detergents C₁₀E₅ and C₁₂E₅ present in eluents for ion-exchange high-performance liquid chromatography of integral membrane proteins of Sendai virus 646(1993)37

Protoporphyrin

Micellar electrokinetic capillary chromatography of haematoporphyrin, protoporphyrin and their copper and zinc complexes 646(1993)397

Provitamin A

Chromatographic analysis of *cis/trans* carotenoid isomers (Review) 624(1992)235

Pseudoephedrine

Micellar electrokinetic capillary chromatography of the enantiomers of amphetamine, methamphetamine and their hydroxyphenethylamine precursors 605(1992)269

Determination of ephedrine and pseudoephedrine in Chinese herbal preparations by capillary electrophoresis 637(1993)219

Pseudohypericin

Determination of hypericin and pseudohypericin by thin-layer chromatography-densitometry 609(1992)423

Pseudokobusine

Determination and quantitative analysis of *Aconitum* alkaloids in plants by liquid chromatography-atmospheric pressure chemical ionization mass spectrometry 644(1993)43

***Pseudomonas* exotoxin 40**

Use of monobromobimane to resolve two recombinant proteins by reversed-phase high-performance liquid chromatography based on their cysteine content 627(1992)137

Psilocin

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Psilocybin

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Pterins

Analysis of 6*R*- and 6*S*-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249

Puerarin

Determination of baicalin and puerarin in traditional Chinese medicinal preparations by high-performance liquid chromatography 631(1993)241

Purine nucleoside 3'-phosphate adducts

High-performance liquid chromatographic separation of purine deoxyribonucleoside monophosphate-benzo[*a*]pyrene adducts 623(1992)247

Purines

see also Nucleobases

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

Reversed-phase high-performance liquid chromatography of purine compounds for investigation of biomedical problems: application to different tissues and body fluids (Review) 618(1993)15

High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181

Optimized separation of purine bases and nucleosides in human cord plasma by capillary zone electrophoresis 636(1993)105

Ion-exchange high-performance liquid chromatography in the brewing industry 640(1993)259

Purpurins

Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295

Putrescine

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

Adsorption losses during extraction and derivatization efficiency by benzylation of plant putrescine for high-performance liquid chromatographic analysis 630(1993)397

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Pyoverdine Pf244

Analysis and configuration assignments of the amino acids in a pyoverdine-type siderophore by reversed-phase high-performance liquid chromatography 646(1993)335

Pyrazinamide

Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285

Pyrene

Dramatic advances in on-line Fourier transform IR detection for capillary supercritical fluid chromatography 626(1992)53

Use of an open-tubular trapping column as phase-switching interface in on-line coupled reversed-phase liquid chromatography-capillary gas chromatography 630(1993)201

Reversed-phase liquid chromatographic measurement of the influence of a co-modifier functional group on the retention behavior of the β -cyclodextrin-pyrene complex 635(1993)211

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

2,3-Pyrenedicarboxylic acid

4-(Trifluoromethyl)-2,3,5,6-tetrafluorobenzyl bromide as a new electrophoric derivatizing reagent 641(1993)400

Pyrethroids

Capillary gas chromatographic separation of some diastereomeric amides from carbonyldiimidazole-mediated microgram-scale derivatizations of the acid moiety of permethrin insecticide 645(1993)393

Pyridine

Packed column subcritical fluid chromatography of underivatized amino acids 605(1992)95

Pyridinium

Assay of pyridinium crosslinks in serum using narrow-bore ion-paired reversed-phase high-performance liquid chromatography 612(1993)41

Pyridinium aldoximes

Determination of hydroxylamine in aqueous solutions of pyridinium aldoximes by high-performance liquid chromatography with UV and fluorometric detection 603(1992)145

Pyridinium bromide perbromide

Analysis of United Kingdom purchased spices for aflatoxins using an immunoaffinity column clean-up procedure followed by high-performance liquid chromatographic analysis and post-column derivatisation with pyridinium bromide perbromide 648(1993)485

Pyridinium oximes

Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373

Pyridinoline

Assay of pyridinium crosslinks in serum using narrow-bore ion-paired reversed-phase high-performance liquid chromatography 612(1993)41

Pyridoxal

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

Pyridoxamine

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

Pyridoxine

Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection 625(1992)377

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

1-(2-Pyridylazo)-2-naphthol-6-sulphonic acid

Electrochemical detection of cobalt in hair following on-column derivatization with 1-(2-pyridylazo)-2-naphthol-6-sulphonic acid and reversed-phase liquid chromatography 619(1993)103

3-Pyridylcarbinol

Determination of nicotine and its main metabolites in urine by high-performance liquid chromatography 612(1993)302

Pyrimethamine

Simultaneous determination of dapsone, monoacetyldapsone and pyrimethamine in whole blood and plasma by high-performance liquid chromatography 613(1993)340

Determination of isomeric N-oxide metabolites of some substituted 2,4-diaminopyrimidines by reversed-phase ion-pair high-performance liquid chromatography 616(1993)79

Pyrimidines

High-performance liquid chromatography of some purine and pyrimidine derivatives on silica in formamide-ethyl acetate mobile phases 626(1992)181

Pyrithiamine

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Pyrogallol

Reversed-phase high-performance liquid chromatography and chemometrics, a combined investigation tool for complex phytochemical problems 644(1993)259

Pyromellitic acid

Parameters influencing separation and detection of anions by capillary electrophoresis 640(1993)463

Pyropheophorbides

Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295

Pyrophosphates

Pyrophosphates as biocompatible packing materials for high-performance liquid chromatography 645(1993)57

***ε*-Pyrrolylsine**

Chromatographic analysis of Maillard reaction products (Review) 624(1992)211

Pyruvate

Quantification of intermediates involved in the cyclic 2,3-diphosphoglycerate metabolism of methanogenic bacteria by ion-exchange chromatography 606(1992)65

PZ-peptidase

High-performance liquid chromatographic determination of PZ-peptidase activity 635(1993)81

Q

Q-enzyme

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

Quaternary ammonium compounds

Determination of C₈-C₂₀ saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Quercetin

High-performance liquid chromatography of honey flavonoids 634(1993)41

Quinidine

Simple direct injection high-performance liquid chromatographic method to determine quinidine in plasma 620(1993)278

Quinine

Simultaneous determination of chloroquine and quinine in human biological fluids by high-performance liquid chromatography 613(1993)303

Determination of quinine in serum, plasma, red blood cells and whole blood in healthy and *Plasmodium falciparum* malaria cases by high-performance liquid chromatography 614(1993)87

Column liquid chromatographic analysis of quinine in human plasma, saliva and urine 616(1993)151

4-Quinolone

Determination of BAY y 3118, a novel 4-quinolone, in biological fluids using high-performance liquid chromatography and photothermal post-column derivatization 616(1993)87

Quinones

Determination of coenzyme Q by non-aqueous reversed-phase liquid chromatography 606(1992)272

Use of off-line gel permeation chromatography-normal-phase liquid chromatography for the determination of polycyclic aromatic compounds in environmental samples and standard reference materials (air particulate matter and marine sediment) 625(1992)141

Quinoxalines

Capillary electrophoresis of *o*-phenylenediamine derivatives (quinoxalines) of dicarbonyl sugars 638(1993)343

R

Radionuclides

β^+ -Selective radiodetector for capillary electrophoresis
645(1993)319

Radiopharmaceuticals

Liquid chromatographic separation of radiopharmaceutical
ligand enantiomers 635(1993)203

Raffinose

Effect of germination on the oligosaccharide content of lupin
species 607(1992)349

Analysis of legume oligosaccharides by high-resolution gas
chromatography 623(1992)186

Ranitidine

High-speed determination of drug related impurities by
capillary electrophoresis employing commercial
instrumentation 636(1993)125

Quantitative aspects of the application of capillary
electrophoresis to the analysis of pharmaceuticals and drug
related impurities (Review) 646(1993)245

Rare earths

Applications of high-performance ion chromatography in the
mineral processing industry 606(1992)195

RDX

Determination of RDX, 2,4,6-trinitrotoluene and other
nitroaromatic compounds by high-performance liquid
chromatography with photodiode-array detection
645(1993)89

Receptors

Protein purification using combined streptavidin (or avidin)-
Sepharose and thiopropyl-Sepharose affinity chromatography
603(1992)95

Recombinant proteins

see also Proteins

Effect of buffer constituents on the determination of
therapeutic proteins by capillary electrophoresis 608(1992)197

Capillary electrophoretic separation of recombinant
granulocyte-colony-stimulating factor glycoforms
630(1993)442

Immunoaffinity chromatography of recombinant *Amb a I* in
the presence of a denaturing agent 631(1993)269

Regulatory proteins

Purification of the C1 repressor of bacteriophage P1 by fast
protein liquid chromatography 625(1992)41

R-enzyme

Fast and sensitive simultaneous staining method of Q-enzyme,
 α -amylase, R-enzyme, phosphorylase and soluble starch
synthase separated by starch-polyacrylamide gel
electrophoresis 623(1992)399

Repressor, C1

Purification of the C1 repressor of bacteriophage P1 by fast
protein liquid chromatography 625(1992)41

Repressor proteins

Purification of the C1 repressor of bacteriophage P1 by fast
protein liquid chromatography 625(1992)41

Resin acids

Determination of resin acids by gas chromatography and
high-performance liquid chromatography in paper mill
effluent, river waters and sediments from the upper Derwent
Estuary, Tasmania 643(1993)209

Resorcinol

Thin-layer chromatographic behaviour of substituted phenolic
compounds on silica gel layers impregnated with Al(III) and
Cu(II) 607(1992)163

Restriction endonucleases

Sequence-specific DNA affinity chromatography: application
of a group-specific adsorbent for the isolation of restriction
endonucleases 630(1993)151

Retinoic acids

Separation of retinoic acid all-*trans*, mono-*cis* and poly-*cis*
isomers by reversed-phase high-performance liquid
chromatography 637(1993)201

trans-Retinoic acid photoisomers

Separation of isomeric compounds by reversed-phase high-
performance liquid chromatography using Ag^+ complexation.
Application to *cis-trans* fatty acid methyl esters and retinoic
acid photoisomers 634(1993)251

Retinoic acids

Micro liquid chromatography-mass spectrometry with direct
liquid introduction used for separation and quantitation of
all-*trans*- and 13-*cis*-retinoic acids and their 4-oxo metabolites
in human plasma 617(1993)129

Separation of isomeric compounds by reversed-phase high-
performance liquid chromatography using Ag^+ complexation.
Application to *cis-trans* fatty acid methyl esters and retinoic
acid photoisomers 634(1993)251

Retinoids

Liquid chromatographic method for the determination of
carotenoids, retinoids and tocopherols in human serum and in
food 619(1993)37

Retinol

Serum concentrations of retinol, *d*- α -tocopherol and β -carotene: effects of storage at -70°C for five years 614(1993)169

Fast minimicroassay of serum retinol (vitamin A) by capillary zone electrophoresis with laser-excited fluorescence detection 616(1993)31

New simplified procedures for the extraction and simultaneous high-performance liquid chromatographic analysis of retinol, tocopherols and carotenoids in human serum 617(1993)257

Simultaneous determination of retinol, α -tocopherol and retinyl palmitate in plasma of premature newborns by reversed-phase high-performance liquid chromatography 617(1993)313

Simultaneous determination of retinol and tocopherols by high-performance liquid chromatography 625(1992)372

Retinol-binding protein

Fast minimicroassay of serum retinol (vitamin A) by capillary zone electrophoresis with laser-excited fluorescence detection 616(1993)31

Retinyl palmitate

Simultaneous determination of retinol, α -tocopherol and retinyl palmitate in plasma of premature newborns by reversed-phase high-performance liquid chromatography 617(1993)313

Rhenium(V)oxo complexes

Liquid chromatographic separation of radiopharmaceutical ligand enantiomers 635(1993)203

Rhodamine 6G

Optimization of capillary zone electrophoresis-electrospray mass spectrometry for cationic and anionic laser dye analysis employing opposite polarities at the injector and interface 639(1993)303

Rhodine g_7

Characterization and separation of oxidized derivatives of pheophorbide *a* and *b* by thin-layer and high-performance liquid chromatography 633(1993)295

Rhodium-ethene

Direct measurement of the inverse secondary isotope effects of $\text{Rh(I)}-\text{C}_2\text{H}_4$ and $\text{Rh(I)}-\text{C}_2\text{H}_3\text{D}$ utilizing gas chromatography 607(1992)69

Riboflavin

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

Ribonuclease

Adenylate kinase from plant tissues. Influence of ribonuclease on binding properties on Mono Q 625(1992)13

Ribonuclease B

High-performance liquid chromatographic analysis of carbohydrate mass composition in glycoproteins 632(1993)19

Ribonucleotides

Efficient separation of natural ribonucleotides by low-pressure anion-exchange chromatography 644(1993)299

Rifampicin

Therapeutic monitoring of antituberculosis drugs by direct in-line extraction on a high-performance liquid chromatography system 619(1993)285

Rifamycin-derived hypocholesterolaemic agent

High-performance liquid chromatographic assay for two rifamycin-derived hypocholesterolemic agents in liver and biological fluids 612(1993)310

Rimantidine

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Risperidone

Determination of risperidone and 9-hydroxyrisperidone in human plasma by high-performance liquid chromatography with electrochemical detection 614(1993)333

RNA

see also Special issue index

RNA

Non-radioactive detection methods for nucleic acids separated by electrophoresis (Review) 618(1993)105

Southern and Northern analysis (Review) 618(1993)133

tRNA^{Trp}

Purification of hyperexpressed *Bacillus subtilis* tRNA^{Trp} cloned in *Escherichia coli* 613(1993)247

Ro 23-7637

Determination of Ro 23-7637 in dog plasma by multidimensional ion-exchange-reversed-phase high-performance liquid chromatography with ultraviolet detection 616(1993)297

Ro 23-9424

Determination of a new antibacterial agent (Ro 23-9424) by multidimensional high-performance liquid chromatography with ultraviolet detection and direct plasma injection 620(1993)211

Rocuronium

Determination of rocuronium and its putative metabolites in body fluids and tissue homogenates 621(1993)65

Roxatidin

High-performance liquid chromatographic separation of intermediate products and potential impurities by the synthesis of roxatidin 625(1992)368

Ruthenium acetylido-carbonyl compounds, trinuclear

High-performance liquid chromatography of trinuclear ruthenium acetylido-carbonyl compounds 634(1993)143

Ruthenium complexes

Chromatographic behaviour of bis(2,2'-bipyridine)ruthenium(II) complexes containing alaninato, phenylalaninato and tyrosinato ligands 606(1992)33

S**S9788**

Method for the analysis of S9788, a drug to reverse resistance to anticancer agents, in animal plasma and human plasma and serum by high-performance liquid chromatography with ultraviolet detection 615(1993)117

Saccharides

Selective complex formation of saccharides with europium(III) and iron(III) ions at alkaline pH studied by ligand-exchange chromatography 630(1993)123

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Experimental and theoretical studies of rate constant evaluation by affinity chromatography. Determination of rate constants for the interaction of saccharides with concanavalin A 646(1993)3

Saccharin

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Safranal

Methods for the analysis of the saffron metabolites crocin, crocetins, picrocrocin and safranal for the determination of the quality of the spice using thin-layer chromatography, high-performance liquid chromatography and gas chromatography 624(1992)497

Preparative high-performance liquid chromatographic purification of saffron secondary metabolites 648(1993)187

Safrole

C₁₈ thin-layer chromatographic enhancement of the ³²P-postlabeling assay for aromatic or bulky carcinogen-DNA adducts: evaluation of adduct recoveries in comparison with nuclease P1 and butanol methods 614(1993)245

Salbutamol

Determination of salbutamol-related impurities by capillary electrophoresis 634(1993)323

High-speed determination of drug related impurities by capillary electrophoresis employing commercial instrumentation 636(1993)125

Salicylanilide

New analytical methods for quantitation of four fungicides by gas and high-performance liquid chromatography 604(1992)247

Salicylate

Comparative use of three electrokinetic capillary methods for the determination of drugs in body fluids. Prospects for rapid determination of intoxications 638(1993)335

Salicylic acid

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Saponins

Determination of acidic saponins in crude drugs by high-performance liquid chromatography on octadecylsilyl porous glass 630(1993)408

Comparison of columns of chemically modified porous glass and silica in reversed-phase high-performance liquid chromatography of ginsenosides 632(1993)79

High-performance liquid chromatographic determination of the major saponin from *Opilia celtidifolia* Guill. Perr. 644(1993)404

Determination of saponins in crude plant extracts by liquid chromatography-thermospray mass spectrometry 647(1993)137

Use of liquid chromatography-thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147

Savinase

Capillary electrophoretic determination of the protease Savinase in cultivation broth 608(1992)205

SCE-2787

Determination of a new cephalosporin, SCE-2787, in serum and urine by high-performance liquid chromatography 615(1993)174

Schiff bases, copper complexes

Enantiomer separation by high-performance liquid chromatography with copper(II) complexes of Schiff bases as chiral stationary phases 631(1993)177

Scopolamine

Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193

Selenious acid

Chromatographic analysis of the reaction between thiosalicyclic acid and selenious acid in methanol 635(1993)71

Selenium

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy 640(1993)73

Semicarbazide

Breakdown of 3,4-dihydroxybenzylamine and dopamine in plasma of various animal species by semicarbazide-sensitive amine oxidase 621(1993)82

Serine proteinase

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Serotonin

Measurement of 5-hydroxytryptamine and 5-hydroxyindoleacetic acid in cultured rat mesencephalic neurons by high-performance liquid chromatography with electrochemical detection 613(1993)231

Simultaneous measurement of serotonin, catecholamines and their metabolites in mouse brain homogenates by high-performance liquid chromatography with a microbore column and dual electrochemical detection 615(1993)225

Measurement of plasma serotonin by high-performance liquid chromatography with electrochemical detection as an index of the *in vivo* activity of fluvoxamine 615(1993)237

Rapid and reliable high-performance liquid chromatographic method for analysing human plasma serotonin, 5-hydroxyindoleacetic acid, homovanillic acid and 3,4-dihydroxyphenylacetic acid 617(1993)227

Binding characteristics of various neurochemicals to glassy carbon 645(1993)219

Sesamoside

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Sesquiterpene

Supercritical fluid extraction and gas chromatographic determination of the sesquiterpene lactone parthenolide in the medicinal herb feverfew (*Tanacetum parthenium*) 627(1992)255

Sesquiterpene lactones

Use of liquid chromatography-thermospray mass spectrometry in phytochemical analysis of crude plant extracts 647(1993)147

O-Sesterpanyl-O-phytanylglycerol

Gas chromatographic determination of isoprenoid alkylglycerol diethers in archaeobacterial cultures and environmental samples 607(1992)253

Shogaols

Application of two rapid techniques of column chromatography to separate the pungent principles of ginger, *Zingiber officinale* Roscoe 609(1992)407

Short-chain fatty acids

Automated headspace gas chromatographic analysis of faecal short-chain fatty acids 621(1993)7

Sialic acids

Capillary electrophoretic separation of recombinant granulocyte-colony-stimulating factor glycoforms 630(1993)442

Glycosidase digestion, electrophoresis and chromatographic analysis of recombinant human granulocyte colony-stimulating factor glycoforms produced in Chinese hamster ovary cells 637(1993)55

Siderophores

Analysis and configuration assignments of the amino acids in a pyoverdine-type siderophore by reversed-phase high-performance liquid chromatography 646(1993)335

Silanes

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182

Silver

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Silver cyanide

Determination of gold(I) and silver(I) cyanide in ores by capillary zone electrophoresis 635(1993)127

Simetryn

Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197

Skatole

High-performance liquid chromatographic method for the determination of 3-methylindole (skatole) and indole in adipose tissue of pigs 616(1993)205

Determination of indolic compounds in pig back fat by solid-phase extraction and gradient high-performance liquid chromatography with special emphasis on the boar taint compound skatole 624(1992)479

SK&F 97574

High-performance liquid chromatographic determination of concentrations of the reversible H^+/K^+ ATPase inhibitor SK&F 97574 in plasma 619(1993)172

SK&F 106203

Column-switching high-performance liquid chromatographic method for the determination of SK&F 106203 in human plasma after fluorescence derivatization with 9-anthryldiazomethane 631(1993)233

Sodium

Applications of capillary ion electrophoresis in the pulp and paper industry 602(1992)219

Capillary electrophoretic determination of alkali and alkaline-earth cations in various multiple electrolyte solutions for parenteral use 602(1992)235

Differential elution from a Sephadex G-15 column of sodium and phosphate ions of sodium phosphate with sodium or potassium phosphate buffer 604(1992)219

Determination of monovalent and divalent cations and chloride in the carbacephalosporin loracarbef by ion chromatography 637(1993)63

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Ion chromatography of organic-rich natural waters from peatlands. II. Na^+ , NH_4^+ , K^+ , Mg^{2+} and Ca^{2+} 640(1993)317

Analysis of cationic nutrients from foods by ion chromatography 640(1993)359

Sodium alkyl sulphates

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Sodium benzoate

Validation of improved methods for high-performance liquid chromatographic determination of phenylpropanolamine, dextromethorphan, guaifenesin and sodium benzoate in a cough-cold formulation 641(1993)241

Sodium dodecyl sulphate

Sodium dodecyl sulfate-capillary gel electrophoresis of proteins using non-cross-linked polyacrylamide 608(1992)349

Capillary sodium dodecyl sulfate gel electrophoresis of proteins 632(1993)171

Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers 639(1993)87

Sodium hydroxide

High-performance size-exclusion chromatography of wood hemicelluloses on a poly(2-hydroxyethyl methacrylate-co-ethylene dimethacrylate) column with sodium hydroxide solution as eluent 639(1993)159

Sodium monofluoroacetate

Gas chromatographic determination of sodium monofluoroacetate as the free acid in an aqueous solvent 634(1993)289

Sodium octanoate

Determination of stabilizers in human serum albumin preparations 638(1993)108

Sodium phenolsulphonates

High-performance liquid chromatographic analysis of sulfonated aromatics using a β -cyclodextrin-bonded phase 635(1993)221

Sodium sulphide

Liquid chromatographic determination of chiral epoxides by derivatization with sodium sulphide, *o*-phthalaldehyde and an amino acid 637(1993)29

Sodium vinyl sulphonate

Determination of sodium vinyl sulphonate in water-soluble polymers using capillary zone electrophoresis 605(1992)143

Solar salt

High-performance liquid chromatographic determination of aluminium and iron(III) in solar salt in the form of their 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone chelates 633(1993)129

Solketal

Methods for the determination of the enantiomeric purity of the C_3 -synthons glycidol (2,3-epoxy-1-propanol) and solketal [2,2-dimethyl-4-(hydroxymethyl)-1,3-dioxolane] 648(1993)119

Soluble starch synthase

Fast and sensitive simultaneous staining method of Q-enzyme, α -amylase, R-enzyme, phosphorylase and soluble starch synthase separated by starch-polyacrylamide gel electrophoresis 623(1992)399

Solvents, volatile

Chromatographic determination of volatile solvents and their metabolites in urine for monitoring occupational exposure (Review) 643(1993)389

Somatostatin

Comparison of high-performance liquid chromatography and capillary electrophoresis in the analysis of somatostatin analogue peptides 648(1993)251

Somatropin

Immunochromatographic analysis of proteins. Identification, characterization and purity determination 632(1993)37

Sophorolipids

Identification and determination of individual sophorolipids in fermentation products by gradient elution high-performance liquid chromatography with evaporative light-scattering detection 648(1993)139

Sorbic acid

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Sotalol

Stereoselective high-performance liquid chromatographic assay for the determination of sotalol enantiomers in biological fluids 612(1993)231

Sparteine

Rapid determination of sparteine and its metabolites in urine 622(1993)274

Spectinomycin

High-performance liquid chromatographic determination of spectinomycin in swine, calf and chicken plasma 615(1993)289

Spermidine

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Spermine

Indirect photometric detection of polyamines in biological samples separated by high-performance capillary electrophoresis 608(1992)93

High-performance liquid chromatographic separation of biogenic polyamines using 2-(1-pyrenyl)ethyl chloroformate as a new fluorogenic derivatizing reagent 613(1993)15

High-performance liquid chromatographic determination of polyamines in selected vegetables with postcolumn fluorimetric derivatization 628(1993)199

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

Spingolipids

Simplified derivatization for determining sphingolipid fatty acyl composition by gas chromatography-mass spectrometry 605(1992)281

Spingomyelin

Studies on the methanolysis of small amounts of purified phospholipids for gas chromatographic analysis of fatty acid methyl esters 607(1992)55

Semiautomated multisample analysis of amniotic fluid lipids by high-performance thin-layer chromatography-reflectance spectrodensitometry 615(1993)142

Squalene

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Stachyose

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Analysis of legume oligosaccharides by high-resolution gas chromatography 623(1992)186

Stearic acid

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Stearylic alcohols

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Steroid

Normal-phase high-performance liquid chromatographic determination of epristeride, a prostatic steroid 5α -reductase enzyme inhibitor, in human plasma 631(1993)251

Steroidal ketoximes, α,β -unsaturated

Preparative separation and properties of (*E*)- and (*Z*)-steroidal α,β -unsaturated ketoximes 635(1993)342

Steroids

Use of methyl and ethyl acetate as organic modifiers in reversed-phase high-performance liquid chromatography. Application to impurity control in bulk drug steroids 607(1992)175

Determination of urinary 18-hydroxycortisol by isocratic normal-phase high-performance liquid chromatography 613(1993)132

Assay of human plasma cortisone by liquid chromatography: normal plasma concentrations (between 8 and 10 a.m.) of cortisone and corticosterone 613(1993)195

Improved thin-layer chromatographic detection of diethylstilbestrol and zeranol in plasma and tissues isolated with alumina and ion-exchange membrane columns in tandem 614(1993)315

Determination of estrogens in plasma by high-performance liquid chromatography after pre-column derivatization with 2-(4-carboxyphenyl)-5,6-dimethylbenzimidazole 616(1993)317

Rapid high-performance liquid chromatographic assay of ethnyloestradiol in rabbit plasma 619(1993)143

Confirmatory analysis of clenbuterol using two different derivatives simultaneously 619(1993)243

Optimization of the high-performance liquid chromatographic separation of a mixture of natural and synthetic corticosteroids 620(1993)15

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Determination of exemestane, a new aromatase inhibitor, in plasma by high-performance liquid chromatography with ultraviolet detection 620(1993)225

Comparison of immunoaffinity chromatography combined with gas chromatography-negative ion chemical ionisation mass spectrometry and radioimmunoassay for screening dexamethasone in equine urine 620(1993)250

Gas chromatographic-mass spectrometric method for measuring stable isotope enrichments of underivatized cortisol from small plasma volumes 621(1993)1

Chromatographic separation of cholesterol in foods (Review) 624(1992)369

Liquid chromatographic purification and detection of anabolic compounds (Review) 624(1992)389

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Liquid chromatography-thermospray mass spectrometric assay for trenbolone in bovine bile and faeces 639(1993)185

New labelling agent, 2-[2-(isocyanate)ethyl]-3-methyl-1,4-naphthoquinone, for high-performance liquid chromatography of hydroxysteroids with electrochemical detection 641(1993)176

Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia 643(1993)189

Sterols

Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179

Hyphenated high-performance liquid chromatography-capillary gas chromatography (Review) 626(1992)25

Stillingia oils

High-performance liquid chromatographic investigations of stillingia oil 603(1992)165

Stromelysin catalytic domain protein

Reversed-phase capillary high-performance liquid chromatography with on-line UV, fluorescence and electrospray ionization mass spectrometric detection in the analysis of peptides and proteins 638(1993)9

Strontium

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

dl-Stylopine

Analytical studies of dl-stylopine in *Chelidonium majus* L. using high-performance liquid chromatography 641(1993)180

Substance P

Recovery of substance P and related C-terminal fragments on solid-phase extraction cartridges for subsequent high-performance liquid chromatographic separation and radioimmunoassay 612(1993)150

Methionine enkephalin-like immunoreactivity, substance P-like immunoreactivity and β -endorphin-like immunoreactivity *post-mortem* stability in rat pituitary 616(1993)175

Subtilisin

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Sucrose

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Sugars

see also Carbohydrates and Saccharides

High-performance liquid chromatographic determination of sugars in an infusion and soft drinks using a silica-based 3-morpholinopropyl-bonded stationary phase 626(1992)266

Separation of sugars by ion-exclusion chromatography on a cation-exchange resin 638(1993)29

Sugars, dicarbonyl

Capillary electrophoresis of *o*-phenylenediamine derivatives (quinoxalines) of dicarbonyl sugars 638(1993)343

Sulfamethazine

Fully automated determination of sulfamethazine in ovine plasma using solid-phase extraction on disposable cartridges and liquid chromatography 622(1993)53

Sulphadiazine

High-performance liquid chromatographic determination of sulphadiazine and trimethoprim in Chinook salmon muscle tissue 633(1993)105

Simultaneous extraction and determination of sulfadiazine and trimethoprim in medicated fish feed by high-performance liquid chromatography 648(1993)183

Sulphanilate

Capillary zone electrophoresis of complex ionic mixtures with on-line isotachopheretic sample pretreatment 638(1993)137

Sulphate

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

Determination of trace anions in hydrofluoric acid by ion chromatography 602(1992)75

Determination of reaction by-products in high-molecular-weight polysulfonated scale inhibitors by ion chromatography 602(1992)213

Applications of ion chromatography and capillary ion electrophoresis in the alumina and aluminium industry 602(1992)257

Determination of C_8 - C_{20} saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Monitoring of ionic concentrations in airborne particles and rain water in an urban area of central Germany 640(1993)241

Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287

Ion chromatography of organic-rich natural waters from peatlands. I. Cl^- , NO_2^- , Br^- , NO_3^- , HPO_4^{2-} , SO_4^{2-} and oxalate 640(1993)309

Determination of anions in an epoxy curing agent by ion chromatography 640(1993)355

Anion screening for drugs and intermediates by capillary ion electrophoresis 640(1993)445

Sulphated polysaccharides

Affinity chromatography of sulphated polysaccharides separately fractionated on antithrombin III and heparin cofactor II immobilized on concanavalin A-Sepharose 615(1993)215

Sulphide

Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287

Reversed-phase high-performance liquid chromatographic determination of sulphide in an aqueous matrix using 2-iodo-1-methylpyridinium chloride as a precolumn ultraviolet derivatization reagent 641(1993)184

Sulphite

Matrix elimination in ion chromatography by "heart-cut" column-switching techniques 602(1992)155

Determination of sulphite and ascorbic acid by high-performance liquid chromatography with electrochemical detection 640(1993)271

Sulphonamides

Separation of sulphonamides and determination of the active ingredients in tablets by micellar electrokinetic capillary chromatography 603(1992)259

Rapid determination of sulphonamides in milk using liquid chromatographic separation and fluorecamine derivatization 607(1992)31

High-performance liquid chromatographic methods for the determination of sulfonamides in tissue, milk and eggs (Review) 624(1992)411

Methods for the determination of sulphonamides in meat (Review) 624(1992)425

High-performance liquid chromatography-thermospray mass spectrometry of ten sulfonamide antibiotics. Analysis in milk at the ppb level 629(1993)267

Peak tracking with a neural network for spectral recognition 631(1993)145

Determination of sulphonamides in pharmaceuticals by capillary electrophoresis 632(1993)165

Robustness testing of an optimized reversed-phase high-performance liquid chromatographic system for the separation of six sulphonamides using the rules of error propagation 635(1993)195

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Sulphonates

Determination of C_8 - C_{20} saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Determination and identification by high-performance liquid chromatography and spectrofluorimetry of twenty-three aromatic sulphonates in natural waters 640(1993)231

Sulphonates, alkylaromatic

Analysis of alkylaromatic sulphonates by high-performance capillary electrophoresis 608(1992)375

Sulphones

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Sulphonic acids

Qualitative analysis of environmental samples for aromatic sulfonic acids by high-performance capillary electrophoresis 603(1992)267

Retention behaviour of aromatic sulphonic acids in reversed-phase ion-pair liquid chromatography with methanol and acetonitrile as organic modifiers 644(1993)269

Sulphonylureas

Fast capillary electrophoresis-ion spray mass spectrometric determination of sulfonylureas 606(1992)237

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Sulphophenyl carboxylates

Reversed-phase high-performance liquid chromatographic determination of linear alkylbenzene sulphonates, nonylphenol polyethoxylates and their carboxylic biotransformation products 644(1993)59

Sulphophthalocyanines

Chromatographic analysis of asymmetric sulphophthalocyanines using a diode-array detector 634(1993)57

Sulphoxides

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Sulphur

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Simultaneous determination of sub-mg/l levels of sulphur and chlorine in liquid hydrocarbons by a coupled combustion-ion chromatography technique 640(1993)111

Sulphur anions

Study of permanently coated columns for the high-performance liquid chromatographic determination of sulphur anions in environmental samples from metallurgical processes 642(1993)371

Sulphur compounds

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography-mass spectrometry 643(1993)55

Sulphuric acid

Some observations on clean-up procedures using sulphuric acid and Florisil 607(1992)303

Sulphur mustard

Application of headspace analysis, solvent extraction, thermal desorption and gas chromatography-mass spectrometry to the analysis of chemical warfare samples containing sulphur mustard and related compounds 637(1993)71

Sumatriptan

Quantitative aspects of the application of capillary electrophoresis to the analysis of pharmaceuticals and drug related impurities (Review) 646(1993)245

Application of particle-beam mass spectrometry to drugs. An examination of the parameters affecting sensitivity 647(1993)101

Superoxide anions

High-performance liquid chromatographic determination of methanesulphinic acid as a method for the determination of hydroxyl radicals 630(1993)187

Superoxide dismutase

Characterization of recombinant human extracellular superoxide dismutase 621(1993)139

Scale-up of recombinant protein purification by hydrophobic interaction chromatography 625(1992)33

Suramin

Peak distortion effects of suramin due to large system peaks in bioanalysis using ion-pair adsorption chromatography 612(1993)137

Surfactants

see also Detergents

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Analogy between micelles and polymers of ionic surfactants. A capillary isotachophoretic study of small ionic aggregates in water-organic solutions 608(1992)131

Determination of quaternary ammonium compounds by capillary electrophoresis using direct and indirect UV detection 608(1992)325

Automated analyses of non-ionic surfactants in terms of hydrophobic and polyoxyethylated chain lengths 609(1992)213

Determination of C₈-C₂₀ saturated anionic and cationic surfactant mixtures by capillary isotachopheresis with conductivity detection 609(1992)381

Study of amphiphilic behaviour of alkylglycoside surfactants using reversed-phase liquid chromatography 623(1992)277

Rapid separation of non-ionic surfactants of polyethoxylated octylphenol and determination of ethylene oxide oligomer distribution by C1 column reversed-phase liquid chromatography 637(1993)145

Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125

Determination of alkylbenzenesulphonates in environmental water by anion-exchange chromatography 643(1993)169

Surfactants: non-biodegradable, significant pollutants in sewage treatment plant effluents. Separation, identification and quantification by liquid chromatography, flow-injection analysis-mass spectrometry and tandem mass spectrometry 647(1993)219

Double-chain surfactant as a new and useful micelle-forming reagent for micellar electrokinetic chromatography 648(1993)469

Surfactants, non-ionic

Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols 645(1993)141

Surfactin

Purification of antifungal lipopeptides by reversed-phase high-performance liquid chromatography 639(1993)81

Suriclone

High-performance liquid chromatographic assay with diode-array detection for toxicological screening of zopiclone, zolpidem, suriclone and alpidem in human plasma 616(1993)95

Sweet fennel oil

Possible value for the gas chromatographic analysis of essential oils of some unusual phase commercial capillaries 626(1992)294

Synephrine

Determination of synephrine from Chinese medicinal drugs originating from *Citrus* species by ion-pair high-performance liquid chromatography 623(1992)386

T

Tabutal

High-performance liquid chromatography using continuous on-line post-elution photoirradiation with subsequent diode-array UV or thermospray mass spectrometry detection 629(1993)143

Tamoxifen

High-performance liquid chromatographic analysis of tamoxifen, toremifene and their major human metabolites 616(1993)117

Taraxanthin

High-performance liquid chromatography-diode-array detection of photosynthetic pigments 607(1992)215

Tartrate

Studies on eluents suitable for use with simultaneous conductivity and direct UV detection in non-suppressed ion chromatography 602(1992)33

Simple gas chromatographic method for the assay of salts of carboxylic acids as their trimethylsilyl derivatives 637(1993)104

Taurine

Determination of taurine metabolism by measurement of ¹⁵N-enriched taurine in cat urine by gas chromatography-mass spectrometry 617(1993)197

Taxanes

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography-electrospray mass spectrometry 615(1993)273

Taxol

Analysis of taxol and related diterpenoids from cell cultures by liquid chromatography-electrospray mass spectrometry 615(1993)273

High-performance liquid chromatographic procedure for the quantitative determination of paclitaxel (Taxol®) in human plasma 621(1993)231

Tear proteins

Separation of human tear proteins with ceramic hydroxyapatite high-performance liquid chromatography 620(1993)149

Tectochrysin

Gas chromatographic analysis of underivatized phenolic constituents from propolis using an electron-capture detector 623(1992)182

High-performance liquid chromatography of honey flavonoids 634(1993)41

Teichoic acid

Determination of glycerol in bacterial cell wall teichoic acid by high-performance liquid chromatography 607(1992)1

Temazepam

Identification and quantitation of intact diastereoisomeric benzodiazepine glucuronides in biological samples by high-performance liquid chromatography 613(1993)162

Temik

Optimization of the separation of technical aldicarb by semi-preparative reversed-phase high-performance liquid chromatography 628(1993)127

Tenoxicam

Determination of tenoxicam in plasma by high-performance liquid chromatography 616(1993)349

Terazosin

Determination of minor impurities in terazosin hydrochloride by high-performance liquid chromatography 648(1993)175

Terbium(III)-acetylacetonate chelate

Indirect time-resolved luminescence detection in capillary zone electrophoresis 608(1992)85

Terbutalin

Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Terbutylazine

Trace determination of weathered atrazine and terbutylazine and their degradation products in soil by high-performance liquid chromatography-diode-array detection 641(1993)89

Terpene alcohols

Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154

Terpene lactones

Identification and determination of the flavonoids from *Ginkgo biloba* by high-performance liquid chromatography 605(1992)41

Terpenes

Glass capillary gas chromatographic identification of volatile components recovered from orange essence by continuous liquid extraction 607(1992)154

Investigation of a scyllitol-derived (saturated) disc-shaped liquid crystal stationary phase in capillary gas chromatography 609(1992)277

Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants 634(1993)297

2,3,4,6-Tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate

Resolution of the enantiomers of thiol compounds by reversed-phase liquid chromatography using chiral derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate 626(1992)187

Chiral separations of β -blocking drug substances using derivatization with chiral reagents and normal-phase high-performance liquid chromatography 636(1993)231

Tetraalkylammonium compounds

Diode laser-based indirect absorbance detector for capillary electrophoresis 636(1993)39

Reversed-phase high-performance liquid chromatography of phospholipids with fluorescence detection 639(1993)175

Tetra-*n*-alkylgermanes

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 645(1993)182

Tetra-*n*-alkylgermanes

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes 630(1993)223

Structure-gas chromatographic retention time models of tetra-*n*-alkylsilanes and tetra-*n*-alkylgermanes using topological indexes. A correction 645(1993)182

2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate

2,3,4,6-Tetra-O-benzoyl- β -D-glucopyranosyl isothiocyanate: an efficient reagent for the determination of enantiomeric purities of amino acids, β -adrenergic blockers and alkyloxiranes by high-performance liquid chromatography using standard reversed-phase columns 633(1993)287

Tetrabutylammonium ion

Chromatographic behaviour of some platinum(II) complexes on octadecylsilica dynamically modified with a mixture of a cationic and an anionic amphiphilic modifier 641(1993)101

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin

Purification of cytochromes P-450 derived from liver microsomes of untreated and 2,3,7,8-tetrachlorodibenzo-*p*-dioxin-treated marmoset monkeys 625(1992)55

Tetrachloro-*p*-dioxins

Influence of shape parameters on the separation of tetrachlorodibenzo-*p*-dioxin isomers on reversed-phase columns 628(1993)3

Separation of tetrachloro-*p*-dioxin isomers by high-performance liquid chromatography with electron-acceptor and electron-donor stationary phases 634(1993)169

1,1,2,2-Tetrachloroethane

Analyses of volatile C₂ haloethanes and haloethenes in tissues: sample preparation and extraction 612(1993)199

Tetrachloroethylene

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

Tetrachlorofluoresceins, brominated

Complementary use of counter-current chromatography and preparative reversed-phase high-performance liquid chromatography in the separation of a synthetic mixture of brominated tetrachlorofluoresceins 607(1992)47

Tetracyclines

Rapid determination of tetracycline antibiotics in serum by reversed-phase high-performance liquid chromatography with fluorescence detection 619(1993)319

Determination of tetracycline antibiotics by reversed-phase high-performance liquid chromatography with fluorescence detection 623(1992)153

Chromatographic methods for tetracycline analysis in foods (Review) 624(1992)195

Separation of tetracycline and its degradation products by capillary zone electrophoresis 627(1992)281

Liquid chromatographic analysis of antibacterial drug residues in food products of animal origin (Review) 643(1993)369

Tetradifon

Identification by gas chromatography–electron-capture detection and gas chromatography–mass spectrometry of the ozonation products in wastewater from dicofol and tetradifon manufacturing 607(1992)311

Tetrahydrobiopterin

Analysis of 6*R*- and 6*S*-tetrahydrobiopterin and other pterins by reversed-phase ion-pair liquid chromatography with fluorimetric detection by post-column sodium nitrite oxidation 617(1993)249

Tetrahydro-β-carbolines

Gas chromatographic–mass spectrometric screening procedure for the identification of formaldehyde-derived tetrahydro-β-carbolines in human urine 614(1993)1

Tetrahydrocortisol

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Tetrahydrocortisone

Development of an isotope-selective high-performance liquid chromatography detector using chemical-reaction-interface mass spectrometry: application to deuterated cortisol metabolites in urine 620(1993)89

Tetrahydrofolate

Identification of 10-formyltetrahydrofolate, tetrahydrofolate and 5-methyltetrahydrofolate as major reduced folate derivatives in rat bile 620(1993)39

Tetrahydrofuran

New graph of binary mixture solvent strength in adsorption liquid chromatography 641(1993)391

Tetrahydroisoquinolines

Gas chromatographic–mass spectrometric screening procedure for the identification of formaldehyde-derived tetrahydroisoquinolines in human urine 619(1993)235

(E)-1,2,5,6-Tetrahydro-1-methyl-3-pyridinecarboxaldehyde O-methylloxime

Measurement of CI-979 (a candidate drug for the treatment of age-related disorders of cognition) in human plasma by capillary gas chromatography with nitrogen-selective detection 619(1993)315

1,2,3,4-Tetrahydro-2-naphthol

Thin-layer chromatography of the positional isomers of some 1,2,3,4-tetrahydro-2-naphthol and 3-amino-1,2,3,4-tetrahydro-2-naphthol derivatives 628(1993)103

Tetrahydropapaveroline

Determination of tetrahydropapaveroline in the urine of Parkinsonian patients receiving L-dopa–carbidopa (Sinemet) therapy by high-performance liquid chromatography 613(1993)267

Tetralins

Analysis of multi-component mixtures by high-resolution capillary gas chromatography and combined gas chromatography–mass spectrometry. II. Trace aromatics in an *n*-alkane matrix 629(1993)309

Tetralones

Relationship between Kováts retention indices and molecular connectivity indices of tetralones, coumarins and structurally related compounds 630(1993)251

Tetramisole

High-performance liquid chromatographic method for the monitoring of the synthesis of the precursor for tetramisole 646(1993)428

Tetraphenyl porphyrins

Modification of reversed-phase liquid chromatographic retention characteristics for metal–tetraphenylporphyrin complexes using octane as a mobile phase additive 634(1993)138

Tetryl

Determination of the explosive 2,4,6-trinitrophenylmethylnitramine (tetryl) and its transformation products in soil 605(1992)227

Analysis of the explosive 2,4,6-trinitrophenylmethylnitramine (tetryl) in bush bean plants 630(1993)167

Thallium

New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455

Thapsigargin

High-performance liquid chromatography of thapsigargin 634(1993)135

Theaflavins

Chromatography of tea constituents (Review) 624(1992)293

Thearubigins

Chromatography of tea constituents (Review) 624(1992)293

Thebaine

Separation of codeine and its by-products by capillary zone electrophoresis as a quality control tool in the pharmaceutical industry 645(1993)366

Theobromine

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Theophylline

Pharmacokinetic studies using micellar electrokinetic capillary chromatography with *in vivo* capillary ultrafiltration probes 615(1993)327

Simultaneous assay of fluoroquinolones and theophylline in plasma by high-performance liquid chromatography 621(1993)105

Separation and simultaneous determination of the active ingredients in theophylline tablets by micellar electrokinetic capillary chromatography 630(1993)363

Thermitase

Peptidyl methyl ketones as ligands in affinity chromatography of serine and cysteine proteinases 648(1993)91

Thiamine

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

Thiamine derivatives

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Thiamine diphosphate

Gel chromatographic evaluation of the binding constant for the interaction of thiamin diphosphate with magnesium ion 609(1992)83

Thianaphthene

Spectrum, multi-element selectivity and elemental response of a linear sulfur emitter in flame photometry 633(1993)151

Thianthrenes

High-resolution gas chromatographic-mass spectrometric determination of neutral chlorinated aromatic sulphur compounds in stack gas samples 641(1993)309

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Thienopyrans

Analytical and preparative high-performance liquid chromatographic separation of thienopyran enantiomers 631(1993)173

Thiobencarb

Determination of pesticides in river water by gas chromatography-mass spectrometry-selected-ion monitoring 643(1993)197

Thiocyanates

Direct serum injection in ion chromatography on packing materials with a semi-permeable surface 602(1992)51

Analysis of thiocyanates and isothiocyanates by ammonia chemical ionization gas chromatography-mass spectrometry and gas chromatography-Fourier transform infrared spectroscopy 648(1993)433

Thiodiglycol sulphone

Capillary column electron impact and ammonia chemical ionization gas chromatographic-mass spectrometric and gas chromatographic-tandem mass spectrometric analysis of mustard hydrolysis products 645(1993)283

Thioethers

Environmental analysis of chlorinated aromatic thioethers, sulphoxides and sulphones (Review) 642(1993)47

Thiofanox

Low ng/l-level determination of twenty N-methylcarbamate pesticides and twelve of their polar metabolites in surface water via off-line solid-phase extraction and high-performance liquid chromatography with post-column reaction and fluorescence detection 623(1992)265

Thioglycolic acid, methyl ester

Speciation of arsenic-containing chemical warfare agents by gas chromatographic analysis after derivatization with thioglycolic acid methyl ester 605(1992)257

6-Thioguanine

High-performance liquid chromatographic determination of thiopurine metabolites of azathioprine in biological fluids 615(1993)352

Thiohydrazines

New thiohydrazones for complexation and chromatographic determination of metal ions 602(1992)103

Thiokol LP-3

Retention characteristics of high-molecular-weight compounds in capillary supercritical fluid chromatography 603(1992)205

Thiols

Resolution of the enantiomers of thiol compounds by reversed-phase liquid chromatography using chiral derivatization with 2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl isothiocyanate 626(1992)187

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Separation and detection of tissue CoASH and long-chain acyl-CoA by reversed-phase high-performance liquid chromatography after precolumn derivatization with monobromobimane 635(1993)251

Thiophenes

Molecular analysis of sulphur-rich brown coals by flash pyrolysis-gas chromatography-mass spectrometry. The Type III-S kerogen 607(1992)361

Determination of sulphurated compounds in *Tagetes patula* cv. *nana* essential oil by gas chromatography with mass spectrometric, Fourier transform infrared and atomic emission spectrometric detection 609(1992)305

Thiopropine

Selective determination of secondary amino acids as their N-dimethylthiophosphoryl methyl ester derivatives by gas chromatography with flame photometric detection 626(1992)239

Thiosalicylic acid

Chromatographic analysis of the reaction between thiosalicylic acid and selenious acid in methanol 635(1993)71

Thiosalicylic acid disulphide

Chromatographic analysis of the reaction between thiosalicylic acid and selenious acid in methanol 635(1993)71

Thiosalicylic acid selenotrisulphide

Chromatographic analysis of the reaction between thiosalicylic acid and selenious acid in methanol 635(1993)71

Thiosulphate

Improved analysis of process liquors for the pulp and paper industry by ion chromatography 640(1993)287

2-Thiothiazolidine-4-carboxylic acid

Automated column-switching high-performance liquid chromatography for the determination of 2-thiothiazolidine-4-carboxylic acid in urine 620(1993)47

Thiouracil

Determination of thyreostatic residues in cattle plasma by high-performance liquid chromatography with ultraviolet detection 616(1993)291

Thioureas

Determination of volatile amines in air by diffusive sampling, thiourea formation and high-performance liquid chromatography 643(1993)35

6-Thiouric acid

High-performance liquid chromatographic determination of thiopurine metabolites of azathioprine in biological fluids 615(1993)352

Thiram

Screening methods for asulam, oxine-copper and thiram in water by high-performance liquid chromatography after enrichment with a minicolumn 643(1993)173

Thorium

High-performance ion chromatographic separation of uranium and thorium in natural waters and geological materials 602(1992)119

Applications of high-performance ion chromatography in the mineral processing industry 606(1992)195

Thorium complexes

Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187

Thromboxane B₂

High-performance liquid chromatographic assay of platelet-produced thromboxane B₂ 612(1993)27

O-(2,3,4,5,6-Pentafluorophenyl)methylhydroxylamine hydrochloride: a versatile reagent for the determination of carbonyl-containing compounds (Review) 627(1992)1

Thymidine

Separation of the anomers and isomers of 2'-deoxyuridine and thymidine by capillary zone electrophoresis 648(1993)299

Thymine hydroperoxides

Chemiluminescent detection of thymine hydroperoxides by high-performance liquid chromatography 606(1992)187

Thyroid stimulating hormone

High-performance liquid chromatography of human glycoprotein hormones 631(1993)261

Tiaprofenic acid

Direct high-performance liquid chromatographic resolution of the enantiomers of tiaprofenic acid using immobilized human serum albumin 616(1993)261

Tin

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Inter-elemental selectivity, spectra and computer-generated specificity of some main-group elements in the flame photometric detector 606(1992)73

Tin, inorganic

Gas chromatographic determination of inorganic tin in rat urine after a single oral administration of stannous chloride and mono-, di-, and triphenyltin chloride 622(1993)173

Tin(II) chloride

Gas chromatographic determination of inorganic tin in rat urine after a single oral administration of stannous chloride and mono-, di-, and triphenyltin chloride 622(1993)173

Tioconazole

Differential binding of tioconazole enantiomers to hydroxypropyl- β -cyclodextrin studied by capillary electrophoresis 636(1993)149

Tiopronin

Gas chromatographic-mass spectrometric determination of tiopronin in human blood using acrylic acid esters as a derivatization reagent for the thiol group 616(1993)229

Tissue necrosis factor

Characterisation of TNF- α -related peptides by high-performance liquid chromatography-mass spectrometry and high-performance liquid chromatography-tandem mass spectrometry 646(1993)185

Titanium tungstate

Effect of solvent composition and pH on R_F values of metal ions on titanium tungstate-impregnated papers in aqueous nitric acid, acetone-nitric acid and butanol-nitric acid systems 606(1992)121

TNF- α

Characterisation of TNF- α -related peptides by high-performance liquid chromatography-mass spectrometry and high-performance liquid chromatography-tandem mass spectrometry 646(1993)185

Tobacco alkaloids

Gas chromatographic-mass spectrometric method for determination of anabasine, anatabine and other tobacco alkaloids in urine of smokers and smokeless tobacco users 619(1993)49

Evaluation of reversed-phase columns for the analysis of very basic compounds by high-performance liquid chromatography. Application to the determination of the tobacco alkaloids 636(1993)213

Tobramycin

Enhancement of detection sensitivity and cleanup selectivity for tobramycin through pre-column derivatization 609(1992)173

Tocainide

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Some aspects of the enantiorecognition of derivatized primary amines on a Pirkle-type chiral stationary phase utilizing tocinide and mexiletine as model compounds 645(1993)233

 α -Tocopherol

Investigation of γ -irradiation of α -tocopherol and its related derivatives by high-performance liquid chromatography using a rapid scanning spectrophotometer 605(1992)49

Serum concentrations of retinol, *d*- α -tocopherol and β -carotene: effects of storage at -70°C for five years 614(1993)169

Simultaneous determination of retinol, α -tocopherol and retinyl palmitate in plasma of premature newborns by reversed-phase high-performance liquid chromatography 617(1993)313

Evaluation of deactivated reversed phases for the analysis of an $\text{N}_3\text{N}_3\text{N}$ -trimethylethanaminium analogue of α -tocopherol. Application to its purity control and determination in biological samples 645(1993)251

 α -Tocopherol acetate

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Tocopherols

High-performance liquid chromatographic investigations of stillingia oil 603(1992)165

New simplified procedures for the extraction and simultaneous high-performance liquid chromatographic analysis of retinol, tocopherols and carotenoids in human serum 617(1993)257

Liquid chromatographic method for the determination of carotenoids, retinoids and tocopherols in human serum and in food 619(1993)37

Determination of plasma tocopherols by high-performance liquid chromatography with coulometric detection 620(1993)268

Simultaneous determination of retinol and tocopherols by high-performance liquid chromatography 625(1992)372

 γ -Tocotrienol

High-performance liquid chromatographic investigations of stillingia oil 603(1992)165

Tolmetin

Separation of non-steroidal anti-inflammatory agents using supercritical fluid chromatography 604(1992)255

Tolperisone

Retention and enantioselective properties of racemic compounds on modified ovomucoic columns. II. Reaction with glyceraldehyde, formaldehyde and glutaric anhydride 631(1993)183

Toluene

Identification of C_2 - C_4 alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes 606(1992)211

Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography-ion trap mass spectrometry 625(1992)247

Separation of C_{60} and C_{70} on polystyrene gel with toluene as mobile phase 628(1993)23

COMPOUND INDEX

2,4-Toluene diisocyanate

Evaluation of a modified Marcali technique with high-performance liquid chromatography-ultraviolet detection for the determination of 2,4-toluene diisocyanate in air 643(1993)51

Topoisomerase II

Activation of topoisomerase II during partial purification by heparin-Sepharose chromatography 625(1992)67

Toremifene

High-performance liquid chromatographic analysis of tamoxifen, toremifene and their major human metabolites 616(1993)117

Toxaphene

Determination of toxaphene in soil by electron-capture negative ion mass spectrometry after fractionation by high-performance gel permeation chromatography 633(1993)177

Toxic metals

New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455

Toxins

Determination of *Penicillium roqueforti* toxin by reversed-phase high-performance liquid chromatography 609(1992)205

Identification and determination of mellein in cultures of the fungus *Septoria nodorum* (Berk.) by thin-layer and high-performance liquid chromatography 609(1992)349

Phycotoxins in seafood —toxicological and chromatographic aspects (Review) 624(1992)439

Liquid chromatography-electrospray ionization-mass spectrometry of cyanobacterial toxins 628(1993)215

Isolation and determination of AAL phycotoxins from corn cultures of the fungus *Alternaria alternata* f. sp. *lycopersici* 641(1993)95

Analysis of paralytic shellfish poisoning toxins by automated pre-column oxidation and microcolumn liquid chromatography with fluorescence detection 644(1993)321

Tramadol

Achiral and chiral high-performance liquid chromatographic determination of tramadol and its major metabolites in urine after oral administration of racemic tramadol 612(1993)223

Tranquilizers

Determination of tranquilisers and carazolol residues in animal tissue using high-performance liquid chromatography with electrochemical detection 624(1992)471

Transferrin

Multiple ligand applications in high-performance immunoaffinity chromatography 603(1992)273

Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269

High-performance liquid chromatographic determination of neutral and amino monosaccharides by ultraviolet and fluorescence detection of sugar 9-fluorenylmethoxycarbonyl hydrazones and 9-fluorenylmethoxycarbonyl amino sugars at picomole and sub-picomole levels 646(1993)45

Transferrin, ¹¹C-labelled

β^+ -Selective radiodetector for capillary electrophoresis 645(1993)319

Transforming growth factor- α

Use of monobromobimane to resolve two recombinant proteins by reversed-phase high-performance liquid chromatography based on their cysteine content 627(1992)137

Transition metal complexes

Salting-out thin-layer chromatography of transition metal complexes. I. Investigation of the behaviour of mixed aminocarboxylato cobalt(III) complexes on silica gel 609(1992)427

Salting-out thin-layer chromatography of transition metal complexes. II. Mixed aminocarboxylatocobalt(III) complexes on a polyacrylonitrile sorbent 626(1992)305

Transition metals

Application of ion chromatography to corrosion studies 602(1992)135

Qualitative corrosion monitoring by on-line ion chromatography 602(1992)163

Ion chromatography as a tool for optimization and control of fermentation processes 602(1992)179

Effect of electrolyte composition on the separation of inorganic metal cations by capillary ion electrophoresis 602(1992)249

Simultaneous cation and reversed-phase chromatography 607(1992)135

Comparison of silica-based and polymer-based cation exchangers for the ion chromatographic separation of transition metals 640(1993)167

Application and development of ion chromatography for the analysis of transition metal cations in the primary coolants of light water reactors 640(1993)323

Improved method for the determination of manganese in nuclear power plant waters 640(1993)371

Separation of metal ions by capillary electrophoresis 640(1993)425

Tranylcypromine

Enantiospecific drug analysis via the *ortho*-phthalaldehyde/homochiral thiol derivatization method 629(1993)215

Trenbolone

Liquid chromatography–thermospray mass spectrometric assay for trenbolone in bovine bile and faeces 639(1993)185

Triacylglycerides

High-performance liquid chromatographic investigations of stillingia oil 603(1992)165

Triacylglycerol hydroperoxides

Determination of triacylglycerol and cholesterol ester hydroperoxides in human plasma by high-performance liquid chromatography with fluorometric postcolumn detection 617(1993)205

Triacylglycerols

Determination of the triglyceride composition of avocado oil by high-performance liquid chromatography using a light-scattering detector 607(1992)329

Fatty acid composition of human milk triglyceride species. Possible consequences for optimal structures of infant formula triglycerides 616(1993)9

Combined enzymic and chromatographic techniques to determine specific radioactivity in free and triglyceride fatty acid plasma fractions 619(1993)21

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Simultaneous determination of hydroperoxides of phosphatidylcholine, cholesterol esters and triacylglycerols by column-switching high-performance liquid chromatography with a post-column detection system 622(1993)153

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Thin-layer chromatography–flame ionization detection Iatroscan system (Review) 624(1992)21

Normal-phase high-performance liquid chromatography with a fluorimetric postcolumn detection system for lipid hydroperoxides 628(1993)31

Correlation of reversed-phase high-performance liquid chromatography and gas–liquid chromatography for fatty acid compositions of some vegetable oils 629(1993)237

Comparative study of the determination of triacylglycerol in vegetable oils using chromatographic techniques 630(1993)213

Triallate

Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417

Triazines

Drying step for introduction of water-free desorption solvent into a gas chromatograph after on-line liquid chromatographic trace enrichment of aqueous samples 625(1992)237

Thin-layer chromatographic study of the lipophilicity of triazine herbicides. Influence of different organic modifiers 625(1992)392

Use of chiral monohalo-*s*-triazine reagents for the liquid chromatographic resolution of DL-amino acids 627(1992)97

Application of mixed-mode, solid-phase extraction in environmental and clinical chemistry. Combining hydrogen-bonding, cation-exchange and Van der Waals interactions 629(1993)11

Automated solid-phase extraction of herbicides from water for gas chromatographic–mass spectrometric analysis 629(1993)55

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Thermospray mass spectral studies of pesticides. Temperature and salt concentration effects on the ion abundances in thermospray mass spectra 647(1993)235

Tributylamine

Analytical-scale supercritical fluid extraction: a promising technique for the determination of pollutants in environmental matrices (Review) 642(1993)263

Gas chromatographic–mass spectrometric determination of lower aliphatic tertiary amines in environmental samples 642(1993)395

1,1,1-Trichloroethane

Analyses of volatile C₂ haloethanes and haloethenes in tissues: sample preparation and extraction 612(1993)199

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

1,1,2-Trichloroethylene

Analyses of volatile C₂ haloethanes and haloethenes in tissues: sample preparation and extraction 612(1993)199

Trichloroethylene

Extraction and gas chromatographic determination of chlorinated solvents in contaminated soil 623(1992)123

Trichothecenes

Automation of a clean-up procedure for determination of trichothecenes in cereals using a charcoal–alumina column 603(1992)290

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Tricyclic antidepressants

Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135

Tridecafluoroheptanoic acid

Volatile ion-pairing agents for liquid chromatographic–thermospray mass spectrometric determination of amino acids and amino acid amides 647(1993)131

Triethylamine

Gas chromatographic–mass spectrometric determination of lower aliphatic tertiary amines in environmental samples 642(1993)395

1,3,5-Triethylbenzene

Analysis of semivolatile organic compounds by headspace gas chromatography 642(1993)389

Trifluoroacetate

Matrix elimination in ion chromatography by “heart-cut” column-switching techniques 602(1992)155

Trifluoroacetic acid

Ion chromatographic method for the simultaneous determination of trifluoromethanesulfonic acid and trifluoroacetic acid 634(1993)125

Trifluoromethanesulphonic acid

Ion chromatographic method for the simultaneous determination of trifluoromethanesulfonic acid and trifluoroacetic acid 634(1993)125

Trifluralin

Use of an automated thermal desorption system for gas chromatographic analysis of the herbicides trifluralin and triallate in air samples 642(1993)417

Triglycerides

see Triacylglycerols

Triglycine

Conversion of capillary zone electrophoresis to free-flow zone electrophoresis using a simple model of their correlation. Application to synthetic enkephalin-type peptide analysis and preparation 608(1992)13

Trihalomethanes

Gas chromatography–electron-capture detection investigation of trihalomethanes produced by chlorination of humic acid in the presence of bromide 605(1992)81

Evaluation of the liquid–liquid extraction technique and application to the determination of volatile halo-organic compounds in chlorinated water 605(1992)251

False results in headspace–gas chromatographic analysis of trihalomethanes in swimming pool water due to elevated headspace temperatures 648(1993)294

Trilinolein

Separation of polyunsaturated and saturated lipids from marine phytoplankton on silica gel-coated Chromarods 607(1992)97

Trimellitate

Behaviour of the system peak in ion chromatography with indirect ultraviolet absorption detection and trimellitate as eluent 623(1992)148

Trimethoprim

Separation of sulphonamides and determination of the active ingredients in tablets by micellar electrokinetic capillary chromatography 603(1992)259

Determination of isomeric N-oxide metabolites of some substituted 2,4-diaminopyrimidines by reversed-phase ion-pair high-performance liquid chromatography 616(1993)79

Determination of trimethoprim in bovine serum by high-performance liquid chromatography with confirmation by thermospray liquid chromatography–mass spectrometry 616(1993)243

High-performance liquid chromatographic determination of sulphadiazine and trimethoprim in Chinook salmon muscle tissue 633(1993)105

Simultaneous extraction and determination of sulfadiazine and trimethoprim in medicated fish feed by high-performance liquid chromatography 648(1993)183

Trimethylamine

Gas chromatographic–mass spectrometric determination of lower aliphatic tertiary amines in environmental samples 642(1993)395

Trimethyl- β -cyclodextrin

Liquid chromatographic determination of β -cyclodextrin derivatives based on fluorescence enhancement after inclusion complexation 614(1993)95

Trimethylphenanthrenes

Gas chromatographic retention behaviour of alkylated phenanthrenes on a smectic liquid crystalline phase. Application to organic geochemistry 627(1992)227

Trimipramine

Simultaneous determination of trimipramine and desmethyl- and hydroxytrimipramine in plasma and red blood cells by capillary gas chromatography with nitrogen-selective detection 613(1993)59

- Determination of tricyclic antidepressants in human plasma by micellar electrokinetic capillary chromatography 616(1993)135
- Study of lot-to-lot reproducibilities of Bond Elut Certify and Clean Screen DAU mixed-mode solid-phase extraction columns in the extraction of drugs from whole blood 617(1993)147
- Reusability of Bond Elut Certify columns for the extraction of drugs from plasma 619(1993)137
- Chemometrics in bioanalytical sample preparation. A fractionated combined mixture and factorial design for the modelling of the recovery of five tricyclic amines from plasma after liquid-liquid extraction prior to high-performance liquid chromatography 629(1993)181
- 2,4,6-Trinitrophenylmethylnitramine**
Analysis of the explosive 2,4,6-trinitrophenylmethylnitramine (tetryl) in bush bean plants 630(1993)167
- 2,4,6-Trinitrotoluene**
Determination of RDX, 2,4,6-trinitrotoluene and other nitroaromatic compounds by high-performance liquid chromatography with photodiode-array detection 645(1993)89
- Tripeptidase**
Monitoring tripeptidase activity using capillary electrophoresis. Comparison with the ninhydrin assay 636(1993)63
- 1,2,5-Triphenylphospholane-1-oxide**
Enantiomer fractionation of phosphine oxides by preparative subcritical fluid chromatography 623(1992)329
- Trisacryl**
Investigation of the properties of novel acrylamido monomers by capillary zone electrophoresis 608(1992)333
- Tris(hydroxymethyl)aminomethane**
Determination of tris(hydroxymethyl)aminomethane (tromethamine) in human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)87
- Triton X**
Quantitative analysis of polyethoxylated octylphenol by capillary supercritical fluid chromatography 641(1993)125
- Application of capillary electrophoresis to the analysis of the oligomeric distribution of polydisperse polymers 645(1993)169
- Triton X-100**
Development of directly coupled supercritical fluid chromatography with packed capillary column-mass spectrometry with atmospheric pressure chemical ionization 605(1992)87
- Tröger's base**
Thermodynamics of the adsorption of Tröger's base enantiomers from ethanol on cellulose triacetate 631(1993)37
- Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. I. The linear case 637(1993)13
- Study of band broadening in enantioselective separations using microcrystalline cellulose triacetate. II. Frontal analysis 637(1993)19
- Optical resolution by high-performance liquid chromatography on benzylcarbamates of cellulose and amylose 641(1993)267
- Tromethamine**
Determination of tris(hydroxymethyl)aminomethane (tromethamine) in human plasma and urine by high-performance liquid chromatography with fluorescence detection 622(1993)87
- Tropane alkaloids**
Rapid and complete chiral chromatographic separation of racemic quaternary tropane alkaloids. Complementary use of a cellulose-based chiral stationary phase in reversed-phase and normal-phase modes—a mechanistic study 634(1993)205
- Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193
- Tropic acid**
Simultaneous analysis of *l*-hyoscyamine, *l*-scopolamine and *dl*-tropic acid in plant material by reversed-phase high-performance liquid chromatography 644(1993)193
- Simple high-performance liquid chromatographic method for assessing the deterioration of atropine-oxime mixtures employed as antidotes in the treatment of nerve agent poisoning 648(1993)373
- Tryptamine**
High-performance liquid chromatography of tryptophan and other amino acids in hydrochloric acid hydrolysates 632(1993)57
- Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165
- Tryptic peptide, kappa marker-specific**
Kappa marker typing with high-performance liquid chromatography: identification of kappa marker specific tryptic peptide from the kappa light chain of immunoglobulin G 622(1993)9
- Tryptophan**
Practical approach to the miniaturization of chiral separations in liquid chromatography using packed fused-silica capillary columns 603(1992)121

Determination of tryptophan in human serum by high-performance liquid chromatography with pre-column fluorescence derivatization using phenylglyoxal 612(1993)187

Experimental design in the development and characterization of a high-performance liquid chromatographic method for amino acids 626(1992)171

Method for the determination of indole-3-acetic acid and related compounds of L-tryptophan catabolism in soils 629(1993)255

Separation and isolation of trace impurities in L-tryptophan by high-performance liquid chromatography 630(1993)147

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Adsorption chromatography on cellulose. IX. Chiral separations with aqueous solvents and liquid-liquid systems 635(1993)346

Separation of diastereomeric derivatives of enantiomers by capillary zone electrophoresis with a polymer network: use of polyvinylpyrrolidone as buffer additive 639(1993)375

Adsorption chromatography on cellulose. X. Adsorption of tryptophan and derivatives from CuSO₄-containing eluents 645(1993)185

Characterization of the binding and chiral separation of D- and L-tryptophan on a high-performance immobilized human serum albumin column 645(1993)241

Tryptophan, PTC derivative

High-performance liquid chromatography of tryptophan and other amino acids in hydrochloric acid hydrolysates 632(1993)57

Tryptophan 2,3-dioxygenase

Assay of tryptophan 2,3-dioxygenase using liver slices and high-performance liquid chromatography 614(1993)227

T-2 toxin

Identification of mycotoxins in keratomycosis-derived *Fusarium* isolates by gas chromatography-mass spectrometry 620(1993)243

Tubulin-binding agent

High-performance liquid chromatographic assay for the measurement of the novel microtubule inhibitor I069C85 in biological tissues and fluids 622(1993)243

Tungstate

Ion chromatographic analysis of inorganic molecular metal-oxygen cluster compounds 602(1992)173

12-Tungstophosphoric acid

Ion chromatographic analysis of inorganic molecular metal-oxygen cluster compounds 602(1992)173

Tylosin

Quantitative analysis of tylosin by column liquid chromatography 630(1993)159

p-Tyramine

Identification and quantification of γ -glutamyl conjugates of biogenic amines in the nervous system of the snail, *Helix aspersa*, by gas chromatography-negative-ion chemical ionisation mass spectrometry 617(1993)11

Mapping of derivatised biogenic amines by two-dimensional thin-layer chromatography A comparative study 635(1993)165

L-Tyrosine

Post-column immobilized tyrosinase reactor for determination of L-3,4-dihydroxyphenylalanine and L-tyrosine by high-performance liquid chromatography with fluorescence detection 648(1993)481

U

U-70226

Optimization of sample application conditions for solid-phase extraction columns 629(1993)61

U-74747

Optimization of sample application conditions for solid-phase extraction columns 629(1993)61

U-77567

Optimization of sample application conditions for solid-phase extraction columns 629(1993)61

U-82217

Application of solid-phase extraction in the determination of U-82217 in rat serum, urine and brain 629(1993)83

U-88055

Optimization of sample application conditions for solid-phase extraction columns 629(1993)61

UMF-058

Determination of a new antifilarial drug, UMF-058, and mebendazole in whole blood by high-performance liquid chromatography 615(1993)303

Uracil derivatives

Determination of the reactivity of uracil derivatives with respect to methyl iodide by high-performance thin-layer chromatographic densitometry 604(1992)261

Uracils

Chromatographic methods in the determination of herbicide residues in crops, food and environmental samples (Review) 643(1993)291

Uranium

High-performance ion chromatographic separation of uranium and thorium in natural waters and geological materials 602(1992)119

Applications of high-performance ion chromatography in the mineral processing industry 606(1992)195

Uranyl complexes

Studies on the retention behaviour of α -hydroxyisobutyric acid complexes of thorium(IV) and uranyl ion in reversed-phase high-performance liquid chromatography 640(1993)187

Urea

Solid-phase separation of ^{14}C -labelled urea and aminoisobutyric acid for membrane transport studies 614(1993)148

Unfolding of human serum transferrin in urea studied by high-performance capillary electrophoresis 638(1993)269

Urethane prepolymer

Applications of dual-beam thermospray liquid chromatography-mass spectrometry 647(1993)73

Urethanes

Determination of trace amounts of alcohols in sodium alkyl sulphate mixtures using high-performance liquid chromatography and surface tension measurements 604(1992)213

Uric acid

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

Uric acid derivatives

Reversed-phase liquid chromatography using monoalkylammonium compounds in the mobile phase. Effects of monoalkylammonium chain length on the efficiency, selectivity and separation of xanthine and uric acid derivatives 604(1992)203

Uvaol

Determination of sterols, erythrodiol, uvaol and alkanols in olive oils using combined solid-phase extraction, high-performance liquid chromatographic and high-resolution gas chromatographic techniques 606(1992)179

V **δ -Valerolactones**

Direct optical resolution of 3,5-substituted δ -valerolactones and related 3,5-dihydroxyvaleric methyl esters on modified amylose and cellulose chiral stationary phases 634(1993)119

Valine

Automated pre-separation derivatization on a capillary electrophoresis instrument 634(1993)317

High-performance liquid chromatographic separation of enantiomeric amino acids on bis[carbamoyl(alkyl)-methylamino]-6-chloro-*s*-triazine-derived chiral stationary phases 644(1993)277

Valproic acid

Analysis of antiepileptic drugs in human plasma using micellar electrokinetic capillary chromatography 608(1992)243

Vanicamide

Determination of the *R,R*- and *S,S*-enantiomers of vanicamide in human serum and urine by high-performance liquid chromatography on a Chiral-AGP column 617(1993)279

Vanadate

Investigation of vanadate as a pH sensitive analyte anion using capillary zone electrophoresis 646(1993)405

Vanadium

Fluorescence reactions of inorganic cations heated on a porous glass sheet for thin-layer chromatography 603(1992)223

Vanillin

Determination of alkali-soluble phenolic monomers in grasses after separation by thin-layer chromatography 604(1992)290

Vanillin oximes

Determination of hydroxylamine in aqueous solutions of pyridinium aldoximes by high-performance liquid chromatography with UV and fluorometric detection 603(1992)145

Vanilmandelic acid

Simultaneous analysis of homovanillic acid, 5-hydroxyindoleacetic acid, 3-methoxy-4-hydroxy-phenylethylene glycol and vanilmandelic acid in plasma from alcoholics by high-performance liquid chromatography with electrochemical detection. Critical comparison of solid-phase and liquid-liquid extraction methods 622(1993)161

Vasoactive intestinal peptide

Determination of vasoactive intestinal peptide in rat brain by high-performance capillary electrophoresis 608(1992)181

Vasopressin

Comparison of selectivities of reversed-phase high-performance liquid chromatography, capillary zone electrophoresis and micellar capillary electrophoresis in the separation of neurohypophyseal peptides and analogues 636(1993)95

Verapamil

Analytical and preparative resolution of enantiomers of verapamil and norverapamil using a cellulose-based chiral stationary phase in the reversed-phase mode 648(1993)381

Verbascose

Effect of germination on the oligosaccharide content of lupin species 607(1992)349

Analysis of legume oligosaccharides by high-resolution gas chromatography 623(1992)186

Verbascoside

Liquid chromatographic-thermospray mass spectrometric analysis of crude plant extracts containing phenolic and terpene glycosides 647(1993)183

Very-low-density lipoproteins

Determination of fatty acid and triacylglycerol composition of human very-low-density lipoproteins 622(1993)117

Vigabatrin

Gas chromatographic assay of vigabatrin enantiomers in plasma 616(1993)39

Vinca alkaloids

Chiral high-performance liquid chromatographic separations of vinca alkaloid analogues on α_1 -acid glycoprotein and human serum albumin columns 609(1992)163

Violaxanthin

High-performance liquid chromatography-diode-array detection of photosynthetic pigments 607(1992)215

Viruses

Mechanism of size-exclusion chromatography. I. Role of convection and obstructed diffusion in size-exclusion chromatography 648(1993)41

Vitamin A

Fast minicroassay of serum retinol (vitamin A) by capillary zone electrophoresis with laser-excited fluorescence detection 616(1993)31

High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69

Vitamin B

Use of capillary zone electrophoresis in the determination of B vitamins in pharmaceutical products 636(1993)133

Vitamin B₁

Ion-pair reversed-phase high-performance liquid chromatographic method for the separation of a set of unphosphorylated thiamine-related compounds 648(1993)349

Vitamin B₁₂

Identification of vitamin B₁₂ and analogues by high-performance capillary electrophoresis and comparison with high-performance liquid chromatography 608(1992)311

Vitamin C

Determination of ascorbic acid in elemental diet by high-performance liquid chromatography with electrochemical detection 606(1992)277

Determination of additives in wine by high-performance liquid chromatography 607(1992)339

Determination of plasma ascorbic acid by high-performance liquid chromatography with ultraviolet and electrochemical detection 612(1993)63

High-performance liquid chromatographic determination of plasma ascorbic acid in relationship to health care 613(1993)275

Testicular and plasma ascorbic acid levels in mice following dietary intake: a high-performance liquid chromatographic analysis 614(1993)233

High-performance liquid chromatography with ion pairing and electrochemical detection for the determination of the stability of two forms of vitamin C 632(1993)91

Measurement of vitamin C by capillary electrophoresis in biological fluids and fruit beverages using a stereoisomer as an internal standard 633(1993)245

Determination of ascorbic acid by isotachopheresis with regard to its potential in neuroblastoma therapy 638(1993)235

Determination of sulphite and ascorbic acid by high-performance liquid chromatography with electrochemical detection 640(1993)271

Determination of total vitamin C in fruits by capillary zone electrophoresis 645(1993)197

Vitamin D

Vitamin D determination using high-performance liquid chromatography with internal standard-redox mode electrochemical detection and its application to medical nutritional products 605(1992)215

Advantages of paper chromatography as a preparative step in the assay of 1,25-dihydroxyvitamin D 621(1993)33

Vitamin D₃

High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69

Characterization of vitamin D₃ metabolites using continuous-flow fast atom bombardment tandem mass spectrometry and high-performance liquid chromatography 645(1993)115

Vitamin E

Determination of plasma tocopherols by high-performance liquid chromatography with coulometric detection 620(1993)268

High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69

Calibration of spectrophotometric detectors for supercritical fluid chromatography 629(1993)361

Vitamins

Vitamin D determination using high-performance liquid chromatography with internal standard–redox mode electrochemical detection and its application to medical nutritional products 605(1992)215

Reversed-phase high-performance liquid chromatographic method for the quantitation of endogenous folate catabolites in rat urine 614(1993)59

Advantages of paper chromatography as a preparative step in the assay of 1,25-dihydroxyvitamin D 621(1993)33

High-performance liquid chromatography with electrochemical detection for the simultaneous determination of vitamin A, D₃ and E in milk 623(1992)69

Chromatographic determination of vitamins in foods (Review) 624(1992)103

Determination of nicotinamide and pyridoxine in an elemental diet by column-switching high-performance liquid chromatography with UV detection 625(1992)377

High-performance liquid chromatography with ion pairing and electrochemical detection for the determination of the stability of two forms of vitamin C 632(1993)91

Capillary electrophoretic determination of inorganic ions in a prenatal vitamin formulation 640(1993)441

Volatile compounds

Simultaneous distillation–extraction under static vacuum: isolation of volatile compounds at room temperature 606(1992)87

Preconcentration of volatile components of foods: optimization of the steam distillation–solvent extraction at normal pressure 628(1993)261

Capability of a carbon support to improve the gas chromatographic performance of a liquid crystal phase in a packed column for some volatile oil constituents 641(1993)189

Retention characteristics of some volatile compounds on Tenax GR 642(1993)379

Retention behaviour of volatile compounds in normal-phase high-performance liquid chromatography on a diol column 646(1993)307

Volatile oils

Use of three molecularly toroid phases for the gas chromatography of some volatile oil constituents, and comparison with liquid crystal phases 606(1992)281

Structurally informative response patterns of some monoterpenoids found in volatile oils to gas chromatography on two commercial dipentylated cyclodextrin phases 639(1993)366

Volatile organic compounds

Development of automated gas chromatographic–mass spectrometric analysis for natural volatile organic compounds in the atmosphere 642(1993)401

Application of gas chromatography with photoionization and electron-capture detectors for field screening of semi-volatiles in soil and water 642(1993)435

Sampling and analysis of volatile organic compounds in estuarine air by gas chromatography and mass spectrometry 643(1992)11

Identification and determination of biogenic and anthropogenic volatile organic compounds in forest areas of Northern and Southern Europe and a remote site of the Himalaya region by high-resolution gas chromatography–mass spectrometry 643(1993)55

Passive sampling and gas chromatographic determination of low concentrations of reactive hydrocarbons in ambient air with reduction gas detector 648(1993)191

Volatile solvents

Chromatographic determination of volatile solvents and their metabolites in urine for monitoring occupational exposure (Review) 643(1993)389

VX

Effect of variations in gas chromatographic conditions on the linear retention indices of selected chemical warfare agents 630(1993)231

W

Warfarin

Study of protein–drug binding using capillary zone electrophoresis 608(1992)257

Enantioselective assay of warfarin in blood plasma by liquid chromatography on Chiralcel OC 615(1993)159

Separation and determination of warfarin enantiomers in human plasma samples by capillary zone electrophoresis using a methylated β -cyclodextrin-containing electrolyte 615(1993)317

Development of a flavoprotein column for chiral separation by high-performance liquid chromatography 623(1992)221

Chiral separations by complexation with proteins in capillary zone electrophoresis 635(1993)119

Direct column liquid chromatographic enantiomer separation of the coumarin anticoagulants phenprocoumon, warfarin, acenocoumarol and metabolites on an α_1 -acid glycoprotein chiral stationary phase 644(1993)315

Waxes

Analysis of synthetic mixtures of waxes by supercritical fluid chromatography with packed columns using evaporative light-scattering detection 623(1992)323

Whey proteins

Chromatographic and electrophoretic methods used for analysis of milk proteins (Review) 624(1992)81

Wilkinson's catalyst

Gas chromatography–mass spectrometry of the picolinyl ester derivatives of deuterated acetylenic fatty acids 625(1992)271

Wood hemicelluloses

High-performance size-exclusion chromatography of wood hemicelluloses on a poly(2-hydroxyethyl methacrylate–co-ethylene dimethacrylate) column with sodium hydroxide solution as eluent 639(1993)159

WR 245511

High-performance liquid chromatographic method for the determination of a candidate 8-aminoquinoline antimalarial drug (WR 245511) using oxidative electrochemical detection 616(1993)338

WY-47 384

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

X

Xanthine

Determination of creatinine and purine derivatives in ruminants' urine by reversed-phase high-performance liquid chromatography 607(1992)199

Xanthine derivatives

Reversed-phase liquid chromatography using monoalkylammonium compounds in the mobile phase. Effects of monoalkylammonium chain length on the efficiency, selectivity and separation of xanthine and uric acid derivatives 604(1992)203

Xenobiotics

Rapid method for the determination of glutathione transferase isoenzymes in crude extracts 609(1992)141

Use of guanidine hydrochloride and ammonium sulfate in comprehensive in-line sorption enrichment of xenobiotics in biological fluids by high-performance liquid chromatography 612(1993)191

Xylazine

Liquid chromatography–mass spectrometry for the determination of medetomidine and other anaesthetics in plasma 631(1993)215

Xylenes

Detection of substituted benzenes in water at the pg/ml level using solid-phase microextraction and gas chromatography–ion trap mass spectrometry 625(1992)247

Xylose

Ion chromatographic determination of monosaccharides from trace amounts of glycosides isolated from grape musts 634(1993)47

Xylycarb

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 620(1993)61

3,5-Xylylmethylcarbamate

Simple, rapid and simultaneous measurement of eight different types of carbamate pesticides in serum using liquid chromatography–atmospheric pressure chemical ionization mass spectrometry 620(1993)61

Y

YM17E

Simultaneous determination of a new inhibitor of acyl CoA:cholesterol acyltransferase, YM17E, and five metabolites using high-performance liquid chromatography with electrochemical detection 613(1993)179

Z

Zalospirone

Use of computer simulations in the development of gradient and isocratic high-performance liquid chromatography methods for analysis of drug compounds and synthetic intermediates 628(1993)191

β -Zearalanolin

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Zearalenone

Multimycotoxin detection and clean-up method for aflatoxins, ochratoxin and zearalenone in animal feed ingredients using high-performance liquid chromatography and gel permeation chromatography 629(1993)229

Simultaneous determination of ochratoxin A and zearalenone in maize by reversed-phase high-performance liquid chromatography with fluorescence detection and β -cyclodextrin as mobile phase additive 635(1993)227

Zeolites

Size-exclusion chromatography on zeolites in the trace analysis of polyaromatic hydrocarbons and organochlorine pesticides 642(1993)205

Zeranol

Improved thin-layer chromatographic detection of diethylstilbestrol and zeranol in plasma and tissues isolated with alumina and ion-exchange membrane columns in tandem 614(1993)315

Drug residue analysis using immunoaffinity chromatography (Review) 624(1992)403

Zileuton

Preparative separation and analysis of the enantiomers of [^{14}C]Zileuton, a 5-lipoxygenase inhibitor 623(1992)390

Zinc

Reversed-phase high-performance liquid chromatographic separation of some trace impurities in oxygen-free electronic copper by post-column chelation with 4-(2-pyridylazo)-resorcinol and Arsenazo-III 605(1992)63

Determination of zinc-65, copper-64 and sulphur-35 labelled rat hepatoma tissue culture metallothioneins by high-performance liquid chromatography with on-line radioactivity detection 619(1993)199

Metal ion capillary zone electrophoresis with direct UV detection: determination of transition metals using an 8-hydroxyquinoline-5-sulphonic acid chelating system 630(1993)379

Extraction chromatography with modified poly(vinyl chloride) and di(2-ethylhexyl)dithiophosphoric acid 634(1993)183

Separation and determination of trace metals in concentrated salt solutions using chelation ion chromatography 639(1993)197

Determination of copper, nickel, zinc, cobalt and manganese in seawater by chelation ion chromatography 640(1993)365

New surface-modified sorbent layer for the analysis of toxic metals in seawater and industrial wastewater 642(1993)455

Rapid and continuous ion chromatographic determination of trace heavy metal impurities in noble metals 644(1993)73

Zinc complexes

Formation of zinc complexes during chromatography of porphyrins on fluorescent thin-layer plates 603(1992)231

Zinc(II) chlorophyll

Preparation and determination of zinc(II) chlorophylls by reversed-phase high-performance liquid chromatography 645(1993)259

Zolpidem

High-performance liquid chromatographic assay with diode-array detection for toxicological screening of zopiclone, zolpidem, suriclone and alpidem in human plasma 616(1993)95

Simultaneous screening and quantitation of alpidem, zolpidem, buspirone and benzodiazepines by dual-channel gas chromatography using electron-capture and nitrogen-phosphorus detection after solid-phase extraction 622(1993)197

Zopiclone

High-performance liquid chromatographic assay with diode-array detection for toxicological screening of zopiclone, zolpidem, suriclone and alpidem in human plasma 616(1993)95

Determination of the enantiomers of zopiclone and its two chiral metabolites in urine using an automated coupled achiral-chiral chromatographic system 617(1993)271

Gas chromatographic determination of zopiclone in plasma after solid-phase extraction 619(1993)310

Zopiclone N-oxide

Determination of the enantiomers of zopiclone and its two chiral metabolites in urine using an automated coupled achiral-chiral chromatographic system 617(1993)271

SPECIAL ISSUE INDEX

VOLUMES 601–650

International ion chromatography symposium 1991, Denver, CO (USA), October 6–9, 1991. Volume 602 (1992)

Biochemical separation technology. Volume 604/1 (1992)

20th Scientific meeting of chromatography and related techniques of the Spanish Royal Society of Chemistry, San Sebastian-Donostia (Spain), October 29–31, 1991. Volume 607/2 (1992)

4th International symposium on high performance capillary electrophoresis, Amsterdam (Netherlands), February 9–13, 1992. Volume 608 (1992)

Separation techniques in nucleic acid research. Volume 618 (1993)

Applications of chromatography and electrophoresis in food science. Volume 624 (1992)

7th Fast protein liquid chromatography seminar, Titisee (Germany), February 12–14, 1992. Volume 625/1 (1992)

2nd International symposium on hyphenated techniques in chromatography, Antwerp (Belgium), February 18–21, 1992. Volume 626/1 (1992)

Symposium on solid-phase extraction in environmental and clinical chemistry, San Francisco, CA (USA), April 5–10, 1992. Volume 629/1 (1993)

16th International symposium on column liquid chromatography, Baltimore, MD (USA), June 14–19, 1992. Volumes 631 and 632 (1993)

2nd International symposium on capillary electrophoresis, York (UK), August 26–28, 1992. Volume 636/1 (1993)

8th International symposium on capillary electrophoresis and isotachopheresis, Rome (Italy), October 6–9, 1992. Volume 638/2 (1993)

1st European symposium on fast protein liquid chromatography of biomolecules, Strasbourg (France), October 19–20, 1992. Volume 639/1 (1993)

International ion chromatography symposium 1992, Linz (Austria), September 21–24, 1992. Volume 640 (1993)

Chromatography in environmental analysis. Volumes 642 and 643 (1993)

12th International symposium on high-performance liquid chromatography of proteins, peptides and polynucleotides, Sydney (Australia), November 29–December 2, 1992. Volume 646/1 (1993)

9th Montreux symposium on liquid chromatography–mass spectrometry, supercritical fluid chromatography–mass spectrometry, capillary zone electrophoresis–mass spectrometry and tandem mass spectrometry, Montreux (Switzerland), November 4–6, 1992. Volumes 647/1 and 647/2 (1993)

FACSS symposium on size-exclusion chromatography, Philadelphia, PA (USA), September 20–25, 1992. Volume 648/1 (1993)

PUBLICATION SCHEDULE FOR THE 1994 SUBSCRIPTION

Journal of Chromatography A and Journal of Chromatography B: Biomedical Applications

MONTH	O 1993	N 1993	D 1993	J	F	M	A	
Journal of Chromatography A	652/1 652/2 653/1	653/2 654/1 654/2 655/1	655/2 656/1 + 2 657/1 657/2	658/1 658/2 659/1 659/2	660/1 + 2 661/1 + 2 662/1 662/2	663/1 663/2 664/1	664/2 665/1 665/2 666/1 + 2 667/1 + 2	The publication schedule for further issues will be published later.
Bibliography Section						681/1		
Journal of Chromatography B: Biomedical Applications				652/1	652/2 653/1	653/2 654/1	654/2 655/1	

INFORMATION FOR AUTHORS

(Detailed *Instructions to Authors* were published in *J. Chromatogr. A*, Vol. 657, pp. 463–469. A free reprint can be obtained by application to the publisher, Elsevier Science B.V., P.O. Box 330, 1000 AH Amsterdam, Netherlands.)

Types of Contributions. The following types of papers are published: Regular research papers (full-length papers), Review articles, Short Communications and Discussions. Short Communications are usually descriptions of short investigations, or they can report minor technical improvements of previously published procedures; they reflect the same quality of research as full-length papers, but should preferably not exceed five printed pages. Discussions (one or two pages) should explain, amplify, correct or otherwise comment substantively upon an article recently published in the journal. For Review articles, see inside front cover under Submission of Papers.

Submission. Every paper must be accompanied by a letter from the senior author, stating that he/she is submitting the paper for publication in the *Journal of Chromatography A* or *B*.

Manuscripts. Manuscripts should be typed in **double spacing** on consecutively numbered pages of uniform size. The manuscript should be preceded by a sheet of manuscript paper carrying the title of the paper and the name and full postal address of the person to whom the proofs are to be sent. As a rule, papers should be divided into sections, headed by a caption (e.g., Abstract, Introduction, Experimental, Results, Discussion, etc.). All illustrations, photographs, tables, etc., should be on separate sheets.

Abstract. All articles should have an abstract of 50–100 words which clearly and briefly indicates what is new, different and significant. No references should be given.

Introduction. Every paper must have a concise introduction mentioning what has been done before on the topic described, and stating clearly what is new in the paper now submitted.

Experimental conditions should preferably be given on a *separate* sheet, headed "Conditions". These conditions will, if appropriate, be printed in a block, directly following the heading "Experimental".

Illustrations. The figures should be submitted in a form suitable for reproduction, drawn in Indian ink on drawing or tracing paper. Each illustration should have a caption, all the *captions* being typed (with double spacing) together on a *separate sheet*. If structures are given in the text, the original drawings should be provided. Coloured illustrations are reproduced at the author's expense, the cost being determined by the number of pages and by the number of colours needed. The written permission of the author and publisher must be obtained for the use of any figure already published. Its source must be indicated in the legend.

References. References should be numbered in the order in which they are cited in the text, and listed in numerical sequence on a separate sheet at the end of the article. Please check a recent issue for the layout of the reference list. Abbreviations for the titles of journals should follow the system used by *Chemical Abstracts*. Articles not yet published should be given as "in press" (journal should be specified), "submitted for publication" (journal should be specified), "in preparation" or "personal communication".

Vols. 1–651 of the *Journal of Chromatography*; *Journal of Chromatography, Biomedical Applications* and *Journal of Chromatography, Symposium Volumes* should be cited as *J. Chromatogr.* From Vol. 652 on, *Journal of Chromatography A* (incl. Symposium Volumes) should be cited as *J. Chromatogr. A* and *Journal of Chromatography B: Biomedical Applications* as *J. Chromatogr. B*.

Dispatch. Before sending the manuscript to the Editor please check that the envelope contains four copies of the paper complete with references, captions and figures. One of the sets of figures must be the originals suitable for direct reproduction. Please also ensure that permission to publish has been obtained from your institute.

Proofs. One set of proofs will be sent to the author to be carefully checked for printer's errors. Corrections must be restricted to instances in which the proof is at variance with the manuscript.

Reprints. Fifty reprints will be supplied free of charge. Additional reprints can be ordered by the authors. An order form containing price quotations will be sent to the authors together with the proofs of their article.

Advertisements. The Editors of the journal accept no responsibility for the contents of the advertisements. Advertisement rates are available on request. Advertising orders and enquiries can be sent to the Advertising Manager, Elsevier Science B.V., Advertising Department, P.O. Box 211, 1000 AE Amsterdam, Netherlands; courier shipments to: Van de Sande Bakhuyzenstraat 4, 1061 AG Amsterdam, Netherlands; Tel. (+31-20) 515 3220/515 3222, Telefax (+31-20) 6833 041, Telex 16479 els vi nl. UK: T.G. Scott & Son Ltd., Tim Blake, Portland House, 21 Narborough Road, Cosby, Leics. LE9 5TA, UK; Tel. (+44-533) 753 333, Telefax (+44-533) 750 522. USA and Canada: Weston Media Associates, Daniel S. Lipner, P.O. Box 1110, Greens Farms, CT 06436-1110, USA; Tel. (+1-203) 261 2500, Telefax (+1-203) 261 0101.

Chromatography of Mycotoxins

Techniques and Applications

edited by V. Betina

Journal of Chromatography Library Volume 54

This work comprises two parts, Part A: Techniques and Part B: Applications. In Part A the most important principles of sample preparation, extraction, clean-up, and of established and prospective chromatographic techniques are discussed in relation to mycotoxins. In Part B the most important data, scattered in the literature, on thin-layer, liquid, and gas chromatography of mycotoxins have been compiled. Mycotoxins are mostly arranged according to families, such as aflatoxins, trichothecenes, lactones etc. Chromatography of individual important mycotoxins and multi-mycotoxin chromatographic analyses are also included. Applications are presented in three chapters devoted to thin-layer, liquid, and gas chromatography of mycotoxins.

Contents: PART A. TECHNIQUES.

1. Sampling, Sample Preparation, Extraction and Clean-up

(V. Betina). Introduction. Sampling and Sample Preparation. Sample Extraction and Clean-up. Illustrative Example. Conclusions.

2. Techniques of Thin Layer

Chromatography (R.D. Coker, A.E. John, J.A. Gibbs). Introduction. Clean-up Methods. Normal Phase TLC Reverse-phase TLC (RP TLC). High Performance Thin Layer Chromatography (HPTLC). Preparative TLC. Detection. Quantitative and Semi-Quantitative Evaluation. Illustrative Examples. Conclusions.

3. Techniques of Liquid Column

Chromatography (P. Kuronen). Introduction. Sample Pretreatment. Column Chromatography. Mini-Column Chromatography. High-Performance Liquid Chromatography. Conclusions.

4. Techniques of Gas

Chromatography (R.W. Beaver). Introduction. Resolution in Gas Chromatography. Extracolumn Resolution. Conclusions.

5. Emerging Techniques:

Immunoaffinity Chromatography

(A.A.G. Candlish, W.H. Stimson).

Introduction. Immunoaffinity Chromatography Theory. Practical Aspects and Instrumentation. Sample Preparation. Illustrative Examples.

6. Emerging Techniques:

Enzyme-Linked Immunosorbent Assay (ELISA) as Alternatives to Chromatographic Methods

(C.M. Ward, A.P. Wilkinson, M.R.A.

Morgan). Introduction. Principles of ELISA. Sample Preparation. Instrumentation and Practice. Illustrative Examples. Conclusions.

PART B. APPLICATIONS.

7. Thin-Layer Chromatography of Mycotoxins (V. Betina).

Introduction. Aflatoxins. Sterigmatocystin and Related Compounds. Trichothecenes. Small Lactones. Macrocyclic Lactones. Ochratoxins. Rubratoxins. Hydroxyanthraquinones. Epipolythiopiperazine-3,6-diones. Tremorgenic Mycotoxins. Alternaria Toxins. Citrinin. α -Cyclopiazonic Acid. PR Toxin and Roquefortine.

Xanthomegnin, Viomellein and Vioxanthin. Naphtho- γ -pyrones. Secalonic Acids. TLC of Miscellaneous Toxins.

Multi-Mycotoxin TLC. TLC in Chemotaxonomic Studies of Toxicigenic Fungi. Conclusions.

8. Liquid Column Chromatography of Mycotoxins

(J.C. Frisvad, U. Thrane).

Introduction. Column Chromatography. Mini-Column Chromatography. High Performance Liquid Chromatography. Informative On-line Detection Methods. Conclusions.

9. Gas Chromatography of Mycotoxins (P.M. Scott).

Introduction. Trichothecenes. Zearalenone. Moniliformin. Alternaria Toxins. Slaframine and Swainsonine. Patulin. Penicillic Acid. Sterigmatocystin. Aflatoxins. Ergot Alkaloids. Miscellaneous Mycotoxins. Conclusions.

Subject Index.

1993 xiv + 440 pages

Price: US \$ 180.00 / Dfl. 315.00

ISBN 0-444-81521-X

ORDER INFORMATION

For USA and Canada
ELSEVIER SCIENCE INC.

P.O. Box 945
Madison Square Station
New York, NY 10160-0757
Fax: (212) 633 3880

In all other countries
ELSEVIER SCIENCE B.V.

P.O. Box 330
1000 AH Amsterdam
The Netherlands
Fax: (+31-20) 5862 845

US\$ prices are valid only for the USA & Canada and are subject to exchange rate fluctuations; in all other countries the Dutch guilder price (Dfl.) is definitive. Customers in the European Union should add the appropriate VAT rate applicable in their country to the price(s). Books are sent postfree if prepaid.



ELSEVIER
SCIENCE B.V.



0021-9673(19940520)651:1:2;1-0

3 2 A.A. 25