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## CONTENTS

*Bibliography Section, Indexes*

Introduction . . . . .	B351
Author Index . . . . .	B353
Subject Index . . . . .	B443
Gas Chromatography . . . . .	B443
Column Chromatography . . . . .	B465
Paper and Thin-Layer Chromatography . . . . .	B469
Electrophoretic Techniques . . . . .	B474
Index of Types of Compounds Chromatographed . . . . .	B476

*Chromatographic Data*

CC separation of substituted anilines on an <i>in situ</i> loaded porous silica microsphere column . . . . .	D65
CC separation of dieldrin, DDD and DDT . . . . .	D65
CC separation of aromatic hydrocarbons on alumina . . . . .	D66
CC separation of glycosyl asparagine derivatives . . . . .	D66
CC separation of deoxyadenosine and adenosine . . . . .	D67
CC of photochemical isomers of ergosterol . . . . .	D67
GLC analysis of free phytosterols using SP-400 . . . . .	D68
Author Index . . . . .	D69
Subject Index . . . . .	D71

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53

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by GERALD H. WAGMAN, *Manager, Antibiotics Research Department*, and MARVIN J. WEINSTEIN, *Director, Microbiology Research Division, Schering Corporation, Bloomfield, New Jersey, U.S.A.*

1973, about 256 pages. Dfl. 65.00 (about US\$22.80) ISBN 0-444-41106-2

At the present time thousands of antibiotics are known, yet the systematic chromatographic classification of these substances is extremely difficult. This book has been written to aid the identification of very similar compounds by use of specific chromatographic techniques. It contains detailed data on paper and thin-layer chromatography, electrophoresis, counter-current distribution and gas chromatographic systems for over 1200 antibiotics and their derivatives, and provides information on chromatographic media, solvents, detection methodology and mobility of the antibiotics. Complete references are given for all methods.

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# Books in Chromatography

## Bibliography of Paper and Thin-Layer Chromatography 1961-1965

edited by K. MACEK, I. M. HAIS, J. KOPECKÝ and J. GASPARIČ

1968. 1040 pages. Out of print.

Only available on microfilm: Dfl. 150.00 (about US\$54.60)

## Bibliography of Paper and Thin-Layer Chromatography 1966-1969

edited by K. MACEK, I. M. HAIS, J. KOPECKÝ, J. GASPARIČ, V. RÁBEK and J. CHURÁČEK

1972. 1008 pages. Dfl. 200.00 (about US\$72.70)

## Bibliography of Column Chromatography 1967-1970

edited by Z. DEYL, J. ROSMUS, M. JUŘICOVÁ and J. KOPECKÝ

1973. 1088 pages. Dfl. 180.00 (about US\$65.50)

(Published as a supplement to the Journal of Chromatography)

## Liquid Column Chromatography

edited by Z. DEYL, K. MACEK and J. JANÁK

1974. In preparation.

## Practical Manual of Gas Chromatography

edited by J. TRANCHANT

1969. 407 pages. Dfl. 100.00 (about US\$36.40)

## Chromatography of Environmental Hazards

by L. FISHBEIN

**Vol. 1: Carcinogens, Mutagens and Teratogens**

1972. 508 pages. Dfl. 135.00 (about US\$49.10)

**Vol. 2: Metals, Gaseous and Industrial Pollutants**

1973. 630 pages. Dfl. 150.00 (about US\$54.60)

**Vol. 3: Pesticides**

1974.

**Vol. 4: Drugs**

1975.

## Chromatography of Antibiotics

by G. H. WAGMAN and M. J. WEINSTEIN

(Journal of Chromatography Library, Vol. 1)

1973. 248 pages. Dfl. 65.00 (about US\$23.60)

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# BIBLIOGRAPHY SECTION

SUPPLEMENT TO THE  
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1974

INDEXES

10 S.A. 2518

## INTRODUCTION

During this year some substantial changes were introduced into the Bibliography Section of the *Journal of Chromatography* (*J. Chromatogr.*, Vol. 88, No. 1 (1974) B1). One of the most fundamental changes is the indexing of the Bibliography Section during the current year. This index will comprise Author Index, Subject Index and Index of Types of Compounds Chromatographed. The reason for this change is mainly speeding up the rate of information delivery. Moreover this new type of indexing allows the presentation of data about the methodology and the type of compounds chromatographed which are not included in the current sections published every month. It has to be stressed that the indexes are not worked out from the title of the quoted paper only, but that for indexing abstracts of each paper, available to us, were used.

Because the methodological part differs substantially in individual chromatographic techniques, we decided to subdivide the Subject Index according to the individual methods into the following parts: Gas chromatography (index-shortening G), column chromatography (C), paper chromatography (P), thin-layer chromatography (T), and electrophoresis (E). In the Index of Types of Compounds Chromatographed all types of methods are indicated at individual entries by the appropriate shortening. In entries which contain a lot of chromatographic papers we made a further division into techniques and applications. The criteria for the classification and for the selection of entries are not absolutely unified which is the result of the different nature of individual chromatographic techniques and, of course, the result of the personal approach to these problems by those workers who actually did the job. At this particular place we would like to stress the fact that this is the first index of this type in the *Journal of Chromatography*. We hope to merge the different viewpoints in the next year and to present the readers with the unifying concept of the whole index.

We hope that this index will help the readers to get a fast orientation about papers published about a certain type of compounds and will also supply enough information on methodical news which may otherwise get lost in the vast number of papers published to-day.

Prague (Czechoslovakia)

K. MACEK/Z. DEYL/

Brno (Czechoslovakia)

J. JANÁK

## Author Index

Please note that this index refers to the entry numbers in the Bibliography Section. The entries have been published according to the following schedule:

<i>Entries</i>	<i>Vol./No.</i>	<i>Entries</i>	<i>Vol./No.</i>
1-522	88/1	3005-3521	93/2
523-1071	89/1	3522-4064	95/1
1072-1724	90/1	4065-4551	96/2
1725-2503	92/1	4552-5031	97/1
2504-3004	92/2	5032-5483	97/2

### A

- Aaron, C. S. 4619  
 Aaronson, R. P. 2027  
 Abatangelo, G. 1293  
 Abbasov, T. G. 904  
 Abdel Bary, E. 2886  
 Abdel-Fattah, A. F. 805  
 Abdilaev, B. 1465, 1466  
 Abdilaev, B. V. 4837  
 Abdoh, Y. 1463  
 Abdrashitov, R. A. 1096  
 Abdullaev, A. I. 572  
 Abe, T. 5177, 5420  
 Abe, Y. 1526  
 Abelentseva, G. M. 905, 3353, 3354  
 Abelson, J. 3325, 3517  
 Abrahamson, L. 1320, 1427  
 Abramenko, T. N. 1726  
 Abramova, R. A. 3620  
 Abramsky, T. 2400  
 Abramson, R. 3484  
 Abryutina, N. N. 5069  
 Ache, I.-M. 4933  
 Ackerman, R. J. 751  
 Ackermann, J. R. 3281  
 Ackermann, M. N. 5224  
 Ackman, R. G. 3007, 3008  
 Acs, G. 5207, 5458  
 Adair, Jr., E. L. 3321  
 Adam, M. 2375  
 Adamczewska, M. 2339  
 Adamiak-Ziemba, J. 4836  
 Adamović, V. M. 914  
 Adams, H. E. 206, 1365  
 Adams, R. N. 2626  
 Adams, W. C. 769  
 Adamski, R. 2328, 5363  
 Adamson, G. L. 2416  
 Adamson, S. D. 2046  
 Addicks, H. W. 4924  
 Addison, R. F. 1156  
 Adiga, P. R. 3224  
 Adigamov, L. F. 3145, 3146, 4362, 4363  
 Adlercreutz, H. 1992  
 Adlkofer, F. 2976  
 Adorova, J. V. 824  
 Adriaenssens, K. 3368  
 Adzet, D. T. 3881  
 Afanas'ev, M. I. 3056  
 Agarwal, K. C. 2397  
 Agarwal, R. P. 2397  
 Agee, C. C. 4161  
 Aggarwal, V. 5108  
 Aghdaie, N. 1463  
 Agliulov, N. Kh. 1135, 5125  
 Agnel, J. P. 4722  
 Agris, P. F. 3510, 3910  
 Aguilar, J. H. 2024  
 Agur'eva, O. A. 3567  
 Ahad, E. 1365  
 Ahern, E. J. 146, 442  
 Ahern, V. 146, 442  
 Ahlborg, U. G. 537  
 Ahlstrom, D. H. 2545  
 Ahmad, M. 4229  
 Ahrend, K. F. 348  
 Ahsan, A. M. 2721



- Aimukhamedova, G. B. 3914  
Ainshtein, A. A. 1803  
Airapetyan, L. S. 5077  
Airhart, J. 2304  
Aitzetmüller, K. 282, 1255, 1256, 1979,  
2206  
Aivazov, B. V. 24, 4089, 5047, 5074  
Akaiwa, S. 2902  
Akamatsu, N. 2217  
Akanuma, H. 2604  
Akanuma, Y. 2604  
Akaza, I. 1378, 4268  
Akedo, H. 159, 459  
Akers, H. A. 2000  
Åkesson, B. 865  
Akhundova, L. Kh. 2232  
Akiba, M. 1829  
Akiya, T. 3078  
Akiyama, T. 1379  
Akkermans-Kruyswijk, J. 4360  
Akopova, A. A. 3050  
Aksenova, G. G. 5075  
Akutagawa, K. 2219  
Alary, J. 4822  
Alaupovic, P. 4992  
Albendea, J. A. 2096  
Alberghina, F. A. M. 2837  
Alberti, G. 1380, 1381, 1382  
Aldenhoff, J. M. 3150  
Alderlieste, E. T. 1191, 3635  
A Le Cam 794  
Aleinikov, N. N. 4655  
Alekseeva, K. V. 1180  
Alekseeva, L. E. 323  
Aleksichik, N. A. 4277  
Aleksiev, B. 986  
Aleskovskaya, V. N. 2212  
Aleskovskii, V. B. 2212  
Alesofie, B. M. 2929  
Alesofie, B. M. I. 387  
Alexaki-Tzivanidou, H. 856  
Alexander, C. 2411  
Alexander, G. 1792  
Alfsen, A. 3381  
Alhyane, M. 2887  
Ali, S. L. 2601, 4662, 4799  
Aliau, S. 115, 390  
Alibert, G. 1976  
Aliev, M. I. 28  
Alikhamov, O. A. 4421  
Alikhan, M. A. 423  
Alimarin, I. P. 1384, 2188  
Alivisatos, S. G. A. 515  
Allain, Ch. C. 5314  
Allamong, B. D. 1320, 1427  
Allen, A. K. 111, 4198  
Allen, B. L. 1047  
Allen, G. A. 2452  
Allen, R. H. 2392, 2636, 2637, 3172  
Allen, W. S. 3071  
Allen, W. V. 5412  
Alley, C. C. 3611, 4601  
Allington, W. B. 4958  
Allison, R. M. 125  
Allouch, P. 2396, 2676  
Allulli, S. 1380, 1381  
Al-Murab, S. 1412, 2202  
Alper, H. 4769  
Alpers, D. H. 2103  
Altenkirk, B. 4334  
Althaus, H. H. 5305  
Althuler, C. H. 595  
Alupovic, P. 2409  
Alvarez Vega, E. 2455  
Aly, H. F. 2185  
Alyмова, T. E. 1110  
Alzer, G. 428  
Amaldi, P. 152, 451  
Amano, K. 653  
Amaral, L. 3445  
Ambler, R. P. 2426  
Ambre, J. J. 4648  
Ambrogi, V. 954  
Ambrozevich, F. N. 3567  
Amic, J. 4729  
Amirov, K. M. 3011, 3107  
Amos, R. 1838, 2161, 4677  
Amoss, C. W. 2746  
Amoss, M. S. 4382  
Anan, F. K. 4199  
Anastasova-Tsenkova, N. A. 2376  
Anastasiadis, P. A. 388  
Andakchchiev, L. S. 4956  
Anders, M. W. 4726  
Andersen, D. W. 862  
Anderson, A. A. 3085  
Anderson, D. G. 547  
Anderson, G. G. 656  
Anderson, H. A. 4382  
Anderson, J. N. 206  
Anderson, J. W. 3228  
Anderson, K. M. 169  
Anderson, R. A. 1984, 1985  
Anderson, W. F. 1603, 2221  
Andersson, I. 173, 480, 2565  
Andersson, K. 536  
Andersson, K. B. 4259  
Andersson, L. 2058  
Andersson, L. C. 2503  
Ando, S. 1257  
Ando, T. 1390, 4703, 5177, 5420  
Ando, Y. 2651  
Andoh, T. 505  
Andonian, M. R. 3403



- Andre, C. E. 3588  
Andre, F. 3418  
Andreasen, A. A. 4365  
Andreev, D. N. 5064  
Andreeva, A. P. 2050  
Andreicovici, G. 1503  
Andreikova, L. G. 4594  
Andreu, J. M. 2096  
Andrews, A. T. 3487, 3740  
Andrews, J. R. 3743  
Andrews, P. S. 4250  
Andrillon, J. 3650  
Andronikashvili, T. G. 3022, 3029, 3038, 3039, 3046  
Andryauskas, S. 951  
Anelli, A. 853, 878  
Anfinsen, C. B. 2073, 3318  
Anfinsen, Jr., C. B. 2644  
Angela, G. C. 2371  
Angeles, R. M. 1206  
Angeletti, P. V. 4236, 4516  
Angeletti, R. H. 2025  
Anghileri, L. J. 518  
Anisimov, A. F. 1946, 2523  
Anisuzzaman, A. K. M. 2222  
Annino, R. 1091  
Anno, K. 4802  
Anokhin, V. L. 2, 3, 525, 1186, 1187  
Ansel, R. E. 547  
Ansorge, S. 1668  
Anstee, D. J. 3981  
Anthony, W. L. 1310  
Antikainen, P. J. 4269  
Antkowiak, W. Z. 5296  
Antonopoulos, C. A. 1971, 4721  
Antonov, B. N. 1541  
Antonov, V. K. 4464  
Antunes-Madeira, M. C. 456  
Anwar, R. A. 2684  
Aoki, I. 4824  
Aoki, N. 364  
Aoki, T. 4455  
Aoshima, H. 2655, 4197  
Aoyagi, T. 4384, 5364  
Aoyama, H. 5067  
App, A. A. 1704  
Arai, K. 1602  
Arakawa, T. 2899  
Araki, S. 1082  
Araki, Y. 653  
Aran, B. 4888  
Arányi, P. 5215  
Aratani, T. 262, 263  
Arbatsky, N. P. 1970  
Archdeacon, J. W. 707  
Ardelt, W. 3108, 5206, 5457  
Ardrey, R. E. 4616  
Aref'ev, O. A. 5068  
Aref'ev, V. B. 2195  
Arenkova, G. G. 5063  
Arens, D. 4961  
Arfin, S. M. 3426  
Argoudelis, A. D. 5365  
Arias Serrano, E. 372, 2383  
Arihara, S. 2854  
Arikawa, Y. 1881  
Arima, T. 3459  
Arimoto, H. 1734  
Arimura, A. 5334  
Aringer, L. 2816, 4206  
Arion, V. J. 1060  
Arita, H. 747  
Arm, H. 5270  
Armitage, G. M. 3631  
Armstrong, M. D. 2004  
Armstrong, R. J. 51  
Arndt, J. 1366  
Arndt, R. 4465  
Arnold, J. P. 3086  
Arreasa, C. 2413  
Arrieta, L. 2865  
Arrio-Dupont, M. 2853  
Arsen'eva, E. L. 4464  
Arslanova, S. S. 3198  
Arsov, A. M. 1536  
Artamonaova, A. A. 901  
Arvidson, S. 2912  
Arvilommi, H. S. 2002  
Arzadon, L. 1942, 2910  
Asakura, T. 1363, 1518  
Asano, H. 2114  
Asard, P. E. 964  
Asher, L. E. 4270  
Ashes, J. R. 1092, 2518  
Ashida, M. 5194, 5449  
Ashmarin, I. P. 511, 4493  
Ashworth, J. M. 3175  
Askar, A. 126  
Askenasi, R. 1280  
Aslanova, L. N. 2524  
Aspberg, K. 2639, 3124  
Aspinall, P. T. 1475  
Assa, Y. 1498  
Assaf, S. A. 1030  
Assauer, J. 1093  
Astell, C. R. 4165  
Astier, M. 1043, 2105  
Atanasov, N. A. 1655  
Atger, M. 2396, 2676  
Atkinson, A. 1338, 4699  
Aturyan, M. M. 3029  
Atwell, J. L. 5431  
Aucker, J. 3761  
Audhya, T. K. 2734

- Aue, W. A. 1083, 1100, 1765, 1822, 4565, 4578, 4579, 5051  
 Augl, J. M. 4578, 4579  
 Augustinsson, K.-B. 173, 480  
 Auletta, F. J. 656  
 Aunis, D. 4704  
 Aurenge, J. 3681  
 Austin, G. E. 3732  
 Auterhoff, H. 3872  
 Autio, S. 5244  
 Avadhani, N. G. 3511  
 Avants, J. K. 2111  
 Avdonin, G. V. 1758  
 Avdyukevich, I. V. 340  
 Averin, V. A. 1111, 1120, 1759, 1760, 2537, 3043  
 Averitt, R. 2545  
 Averkieva, V. V. 1432  
 Avigad, G. 4897, 5155  
 Avital, S. 5445  
 Aviv, H. 1341  
 Avots, A. 1356, 1949, 4249  
 Avramovic-Zikic, O. 673  
 Avtalion, R. 4460  
 Awad, Jr., W. M. 3499, 3755  
 Awang, D. V. C. 3361  
 Awl, R. A. 3550  
 Axelrod, B. 3396, 3745  
 Axelrod, H. D. 4144  
 Axelsson, I. 4721  
 Axen, R. 3124  
 Axen, U. 3596  
 Axenfors, B. 173, 480  
 Ayad, S. R. 1925, 3769  
 Aye, R. D. 5350  
 Ayrey, G. 1509  
 Azad, A. A. 1671, 2148  
 Azerad, R. 2776  
 Azuma, J. 1577
- B**
- Baba, N. 1215, 2627  
 Baba, S. 5086  
 Babaev, I. I. 908  
 Babayan, Kh. S. 2233, 4451  
 Babczinski, P. 3411  
 Babin, D. R. 674  
 Babin, M. J. 849  
 Babina, Yu. K. 2549, 3194, 4416, 4417  
 Babinsky, M. 1203  
 Babintseva, V. I. 1783, 1790  
 Baccanari, D. P. 4962  
 Bach Marles, J. 838  
 Backer, R. C. 5386  
 Backmansson, A. 672  
 Bacon, V. A. 1505  
 Badach, L. 2494  
 Badami, R. C. 1258  
 Baden, M. M. 1556  
 Badovskaya, L. A. 2283  
 Baehler, B. 2781  
 Baer, E. 1358  
 Baer, H. H. 3587  
 Baerlocher, K. 1178  
 Baetcke, K. P. 1532  
 Bagdasarian, A. 3174, 4501  
 Bagirov, R. A. 572  
 Baglioni, C. 1015  
 Bagnara, A. S. 2223  
 Bagreeva, M. R. 4866  
 Bagshaw, J. 3403  
 Bahl, C. P. 2840  
 Bahrs, W. 1259  
 Baidarovtseva, M. A. 1742  
 Baig, M. M. 4021  
 Baigalieva, A. N. 1864  
 Bailey, D. N. 1552  
 Bailey, F. 2179  
 Bailey, G. S. 3159  
 Bailey, J. M. 3505  
 Bailey, J. V. 4317  
 Bailey, K. 4637  
 Bailiff, E. G. 135  
 Bailley, E. 2566  
 Baiocchi, L. 3943  
 Baitsholts, A. D. 2249  
 Baizoldanov, T. 2489  
 Bajaj, L. K. 274  
 Bajaj, S. P. 4502  
 Baker, A. G. 1520  
 Baker, B. I. 2425  
 Baker, D. R. 1911, 4774  
 Baker, H. N. 2068, 2931, 3708  
 Baker, J. R. 3417, 3980  
 Baker, K. M. 606, 2592, 3603  
 Baker, P. B. 616, 1528, 2576, 4418  
 Baker, R. K. 4143  
 Bakos, L. 799, 2186  
 Balabanov, V. V. 3613  
 Balakhontseva, V. N. 4813  
 Balaukhin, A. A. 2630  
 Balcerkiewicz, L. 5259  
 Baldassari, K. 4719  
 Baldwin, J. 3465  
 Balekjian, A. Y. 695, 1000  
 Balestrieri, C. 3446  
 Balinova, A. 3930  
 Balint, G. A. 3842  
 Balis, M. E. 172, 479  
 Balke, S. T. 2170  
 Ball, P. 4302  
 Ball, W. D. 5216, 5467

- Ballee, D. L. 587  
Balta, E. 3245  
Baltes, W. 5351  
Balthazar, Z. 45  
Balzer, C. J. 418  
Balzoni, M. 358  
Bambara, R. 3509  
Banaš, Z. 3518  
Banaszkiewicz, S. 2362  
Bandarin, V. A. 2784  
Bandeau, St. 1455  
Bandere, R. 1356, 4249  
Bandyopadhyay, C. 4936  
Banerjee, A. K. 4538  
Banerjee, S. K. 3672  
Bannard, R. A. B. 69, 586, 5088  
Baptist, J. N. 2988  
Bar, A. 5446  
Bár, J. 5481  
Baranova, G. G. 1803  
Baranovskaya, V. A. 3827  
Baranowska, I. 3339  
Baranowski, R. 3339  
Barath, A. 5302  
Baratti, J. 3749  
Baraud, J. 283  
Barb, D. K. 4158  
Barbacid, M. 3243  
Barban, P. S. 5342  
Barban, S. 3456  
Barbaro, A. M. 831  
Barbashevskaya, T. R. 1303  
Barbeau, D. L. 2213, 2381  
Barbi, G. 349  
Barbier, F. 1181  
Barciszewski, J. 2377  
Bardou, L. G. 4364, 5084  
Bareggi, S. R. 2592  
Barford, R. A. 1856  
Barial, M. 1433  
Barkan, S. 2180  
Barker, P. E. 1230  
Barker, R. 1247  
Barling, L. 627  
Barlow, G. B. 3659  
Barlow, G. H. 1942, 2910  
Barman, T. E. 156  
Barna, J. 1623  
Barnes, F. J. 874, 2166  
Barnes, Jr., P. C. 3135  
Baron, C. 1181  
Baron, D. 190, 497  
Bar-On, H. 394  
Baron, J. C. 2382, 2434, 2903  
Barrall, II, E. M. 1888  
Barratt, R. S. 3590  
Barrett, A. J. 116, 2388  
Barrio, J. R. 3322  
Barritault, D. S. 4458  
Barry, E. F. 1090  
Bar-Tana, J. 2389  
Barth, H. 1947  
Barth, J. 1601  
Barth, T. 667, 979, 1292, 3744  
Bartha, B. 45  
Bartholo, L. F. S. 848  
Bartholomew, B. A. 3212  
Bartik, M. 174  
Bartle, K. D. 3542  
Bartmann, D. 1882  
Bartmann, P. 5137, 5422  
Barton, P. G. 972, 3444  
Bartsch, H. 167  
Bartunek, M. M. 1563  
Barve, V. P. 942  
Barzan, M. L. 206  
Barzilay, I. 241, 1327, 1337  
Basford, R. E. 5016  
Baskakov, Yu. A. 2340  
Baskova, I. P. 1039  
Bastide, F. 5421  
Bastoni, F. 349  
Bastos, M. L. 1375, 1553, 5385, 5392  
Basu, A. K. 3073  
Basu, S. 861  
Batalov, V. S. 3050  
Bates, R. W. 2936  
Bath, R. J. 294  
Bati, J. 880  
Batog, A. E. 4860  
Batora, V. 2164  
Battilotti, M. 5398  
Battistuzzi, R. 2235  
Battula, N. 3511, 4969  
Batukova, G. I. 3091  
Batyrev, Yu. A. 5080  
Batzri, S. 118  
Baudner, S. 4520  
Bauer, D. H. 140, 417  
Bauer, E. 5339  
Bauer, F. 2656  
Bauer, K. 1669  
Bauer, Š. 3742  
Bauersfeld, H. 356  
Baugh, E. R. 587  
Baulieu, E.-E. 2676  
Baum, B. J. 5433  
Bauman, B. V. 4142  
Baumann, H. 1369  
Baumann, M. 4503  
Baumann, P. 3334  
Baumgarten, E. 3593  
Baumgartner, E. 4974  
Baumstark, J. S. 1656, 2097

- Baur, P. J. 254  
 Bautovich, G. J. 2412  
 Bautz, E. K. F. 731  
 Bayard, B. 229, 233  
 Bayer, F. L. 1784  
 Baynes, J. W. 3139  
 Baynes, S. 3507  
 Bdolah, A. 3473, 3730  
 Beall, J. A. 1635  
 Beauchemin, N. 765  
 Beaudoin, A. R. 3274  
 Beaulieu, E.-E. 2396  
 Bechtel, A. 1814  
 Beck, E. 813  
 Beck, E. A. 1604  
 Bečka, J. 2597  
 Becker, C. H. 4400  
 Becker, J. E. 1319  
 Becker, R. 2197, 4151  
 Beckett, A. H. 4441  
 Beckey, H. D. 1991  
 Bedivec, V. 4140  
 Bednar, J. 2049, 4211  
 Bednář, J. 1559  
 Bednarik, K. 4518  
 Bednarska, D. 2724  
 Beecher, G. R. 1310  
 Beer, C. 4841  
 Beesley, R. C. 1578  
 Beevers, L. 1685  
 Begemann, F. 264  
 Begg, R. D. 5167  
 Begue, J. W. 906  
 Begunov, G. A. 2556  
 Behrens, N. H. 1591  
 Beier, J. 1273  
 Beintema, J. J. 1294, 1304, 1619  
 Beisel, V. 4576  
 Beisswenger, J. G. 1670  
 Békeffy, O. 645  
 Bekersky, I. 4137  
 Bektesh, S. L. 1211, 1904, 3035  
 Belafi-Rethy, K. 597, 598  
 Belak, V. 973  
 Beland, F. A. 2557  
 Bélanger, P. 3080  
 Belcher, R. 1154  
 Belen'kii, B. G. 8, 9, 526, 1743  
 Beljaars, P. R. 3330, 4327, 4898  
 Bell, J. E. 4148  
 Bell, J. G. 1805  
 Bell, T. N. 5052  
 Bella, Jr., A. 1243  
 Bellair, J. T. 3702  
 Bellemare, G. 4062  
 Bellens, G. 4260  
 Bellinger, J. F. 4218  
 Bellmann, G. 2771  
 Bello, L. J. 3732  
 Bellon, F. 4975  
 Beloborodova, N. F. 205  
 Belostotzkii, V. M. 2050  
 Belov, B. M. 90  
 Belvedere, G. 2588, 2590, 3603  
 Belyaeva, L. D. 607  
 Belyakova, L. D. 4572  
 Benado, S. 852  
 Ben-Ami (Bodonyi), E. 1423, 1597, 2005  
 Benassi, C. A. 4752, 5015  
 Ben-David, M. 2936  
 Bender, M. L. 1944  
 Bender, P. E. 4169  
 Benedetti, A. 5083  
 Benesh, R. 1358, 3402, 3432  
 Benesh, R. E. 1358, 3402, 3432  
 Benesi, H. A. 123  
 Benešová, V. 662  
 Benezet, H. J. 2577  
 Bennett, G. N. 3831  
 Bennett, G. W. 1823  
 Bennett, Jr., J. P. 1383  
 Bennett, L. E. 1383  
 Bennis, G. 4352, 4854  
 Benoit, H. 1872  
 Benson, A. A. 2288  
 Benson, B. J. 4003  
 Bensusan, H. B. 400, 678  
 Bentley, F. F. 5103  
 Bentley, J. P. 3680  
 Benveniste, R. 1341  
 Benzou, B. 3830  
 Beppu, D. 4343  
 Beranova, H. 2198  
 Berchild, K. M. 3573  
 Bercht, C. A. L. 635  
 Berdinskikh, N. K. 500  
 Berdnikov, V. A. 4514  
 Berducou, J. 969  
 Berek, D. 2171, 2708  
 Berenson, G. S. 811, 5416  
 Beresnev, A. N. 544  
 Berezina, N. I. 3826  
 Berezkin, V. G. 11, 23, 1201, 1729, 3016, 3017,  
 3558, 3589, 4075, 4557, 5032, 5040  
 Berezovskaya, T. P. 872  
 Berg, A. 3293  
 Berg, K. 4992  
 Berg, M. 1077  
 Berg, O. W. 1157  
 Berg, R. A. 436, 693, 722, 1027, 1926  
 Berg, R. G. 4846  
 Bergelson, L. D. 3581, 3887  
 Bergen, L. 3919  
 Berger, A. 2474

- Berger, E. 2099, 2980  
 Berger, G. 4722  
 Berger, J. A. 2099  
 Bergeret, J. 2015  
 Berggård, I. 3989  
 Bergheim-Irps, E. 1166  
 Bergmann, F. 3835, 4810, 4812  
 Bergren, W. R. 3504  
 Berkeley, R. C. W. 1657  
 Berkower, I. 3741  
 Bernabe, P. 1942, 2910  
 Bernard, H. P. 1654  
 Bernard, J. L. 891  
 Bernard, N. 155, 401  
 Bernasconti, E. 370  
 Bernatskaya, L. S. 907  
 Berneir, I. 427  
 Bernier, I. 141  
 Bernofsky, C. 772  
 Berns, A. J. M. 1703  
 Berns, D. S. 445  
 Berns, T. J. 452, 705  
 Berra, B. 2797  
 Berridge, N. J. 65  
 Berry, D. J. 950, 3104  
 Bersier, D. 4873  
 Berthou, F. L. 4364, 5084  
 Berti, G. 1627  
 Bertilsson, L. 4643  
 Bertsch, W. 1173  
 Berube, L. 686, 987  
 Besse, G. 2999  
 Best, A. N. 1344, 4387  
 Best, W. 5378  
 Bethke, H. 839, 2250, 5271  
 Betoux, J. M. 2271  
 Bewley, T. A. 3226  
 Beyer, K. H. 3944  
 Beyer, W. F. 5226  
 Beyerman, H. C. 2832  
 Beyermann, K. 1158  
 Beynon, K. I. 2867, 3599  
 Beyreuther, K. 1048  
 Bezborodova, S. I. 675  
 Bezhashvili, K. A. 3039  
 Bezinger, N. N. 5095  
 Bezkorovainy, A. 2026, 2937, 4192, 5442  
 Bhaduri, S. 1688  
 Bhakdi, S. 4383, 4492  
 Bhaktavatsalam, G. 4426  
 Bhalla, R. C. 2690  
 Bhatia, I. S. 274  
 Bhatia, K. 3134, 5162  
 Bhatkhande, C. Y. 942  
 Bhatt, N. 962, 939  
 Bhattacharya, S. N. 1737  
 Bhattacharyya, A. K. 424  
 Biagi, G. L. 831  
 Biale, J. B. 2809  
 Bianchi, U. 207  
 Biarge, J. F. 4097  
 Bickle, T. A. 3451  
 Biedenbach, S. A. 728  
 Bieganowska, M. 4314  
 Bielecki, R. L. 4454  
 Bielická, A. 1785  
 Bielig, H. J. 126  
 Biely, P. 3742  
 Biemann, K. 642  
 Bieraeugel, R. 807  
 Bieri, J. H. 4899, 4900  
 Biernacki, W. 3901  
 Biernat, A. 4117  
 Biesecker, G. 3460  
 Bikkulov, A. Z. 1542  
 Billen, D. 1348  
 Bills, D. D. 1809  
 Bilsker, M. 4388  
 Bind, G. 360  
 Binder, H. 1745  
 Bing, D. H. 3655  
 Biondi, P. A. 606  
 Birchmeier, W. 2081  
 Birk, Y. 1498  
 Biró, E. N. A. 4220  
 Biros, F. J. 1810  
 Biserte, G. 145, 4809, 5186, 5441  
 Bishara, R. H. 1543  
 Bishop, S. H. 2852 †  
 Bissbort, S. 2977 |  
 Bisset, J. P. 3374  
 Bister, K. 3888  
 Biswajit, L. 4501  
 Bitterfield, Z. L. 2612  
 Bizzini, B. 4022  
 Bjelakovic, G. 503  
 Bjerrum, O. J. 2951, 4998  
 Bjørklid, E. 4023  
 Björndal, H. 4600  
 Björnson, L. K. 2856  
 Black, H. S. 1831  
 Black, R. A. 4365  
 Blades, A. T. 1084, 1085  
 Blaha, J. M. 2863  
 Blahovec, J. 174  
 Blair, G. E. 3162  
 Blake, J. W. 3602, 5091  
 Blanchard, R. C. 1493  
 Blanco, A. 3468  
 Blankenship, J. 5004  
 Blasius, E. 2490, 2512, 2582, 2583  
 Blass, K. G. 4299, 5251  
 Blaton, V. 860  
 Blaug, S. M. 341

- Blazquez, C. H. 1529  
 Blecher, H. 672  
 Bleffert, G. W. 3069, 4843  
 Blekh, L. M. 1758  
 Blenke, H. 2374  
 Blešová, M. 4883  
 Blessington, B. 64  
 Blinc, M. 814, 1418  
 Blinnikova, E. I. 692  
 Bliznakov, E. G. 2777  
 Bloch, K. 2696, 3182  
 Bloching, M. 298, 1281  
 Block, S. S. 1086  
 Bloemendal, H. 452, 705, 1643, 1703, 2071, 3998, 5007  
 Blombäck, B. 3160  
 Blomquist, C. H. 4526  
 Blond, J. P. 284  
 Bloomquist, C. A. A. 221  
 Blount, J. F. 1504  
 Blout, E. R. 2312, 2313, 3441  
 Blu, G. 2513, 4690  
 Blum, W. 3536, 3561  
 Blumberg, P. M. 138  
 Blume, P. 3573  
 Blumenthal, K. M. 3466, 3729  
 Blyakhman, L. I. 3621  
 Bobrova, N. I. 608  
 Boccù, E. 4752  
 Boček, P. 4657  
 Bocoù, E. 5015  
 Bodanszky, A. 325  
 Bodanszky, M. 325  
 Bodnaryk, R. P. 3733, 5358  
 Bodo, V. 4213  
 Böck, A. 5137, 5422  
 Böhle, E. 2814  
 Boehm, E. L. 4225  
 Boehme, H. J. 2674, 4038  
 Boehringer Mannheim, G.m.b.H. 1960  
 Boenig, G. 1436, 3250  
 Boerning, H. 384  
 Boeva, A. 3770  
 Boffey, G. C. 5236  
 Bogacka, T. 4908  
 Bogdanchikov, A. I. 3051, 3052  
 Bogdanov, M. 2431  
 Bogdanova, I. A. 3621  
 Bogen, R. 4098  
 Bogusz, M. 2868  
 Bohdaneck, M. 4542  
 Bohdanecký, M. 1708  
 Bohem, J. M. 1883  
 Bohley, P. 1668  
 Bohosiewicz, M. 822  
 Boiko, I. P. 584  
 Boiko, M. G. 500  
 Boisseau, J. 2013  
 Bojanowski, D. 2136  
 Bojarski, J. 74  
 Bojesen, E. 1269, 1488  
 Bojesen, I. 1269, 1488, 1986  
 Bolan, M. 2603  
 Bolanowska, W. 48  
 Bolletti, C. M. 4989  
 Bollini, R. 4746  
 Bollum, F. J. 735, 1038, 1329, 1510  
 Bolognesi, D. P. 5238, 5482  
 Bolohan, R. 5058  
 Bolotina, L. M. 3620  
 Bol'shova, T. A. 2188, 1384  
 Bolund, L. A. 1001  
 Bolzoni, G. 911  
 Bondarenko, S. V. 3053  
 Bondi, A. 1498  
 Boneva, A. 1444, 1445  
 Bonfils, C. 115, 390  
 Bonhoeffer, F. 473, 733  
 Boni, I. V. 2146  
 Boniface, H. J. 2889  
 Boniforti, L. 2796  
 Bonjean, M. C. 4822  
 Bonnard, J. 2711, 4779, 4780  
 Bonnebat, C. 1209  
 Bonnemoy, C. 2999  
 Bonner, J. 1312, 2482  
 Bonney, B. 3030  
 Booth, J. 4194  
 Booth, R. A. 5120  
 Borbély, I. 535  
 Bordeaux-Pontier, M. 3374  
 Bories, G. F. 4414  
 Boris, L. L. 1746  
 Borkowska, I. 1345  
 Borkowska, Z. 5384  
 Borkowski, B. 2758  
 Borkowski, T. 2868  
 Born, H. J. 801  
 Bornens, M. 696, 1012  
 Bornstein, P. 683  
 Borodavko, V. A. 5062  
 Boross, L. 5215  
 Borová, J. 3167  
 Borovanský, A. 3364  
 Borowiecka, B. 3342  
 Bors, Gh. 3346  
 Borst, P. 1055, 1349, 1691, 4057  
 Bortnikov, G. N. 548, 612  
 Bosch, L. 1724  
 Bosch, V. 2413  
 Bose, A. 4377  
 Bose, P. C. 2842  
 Bose, R. J. 2316  
 Bosly, J. 2711, 4779, 4780

- Bosmann, H. B. 175, 481  
 Boss, B. D. 4122  
 Boswell, K. H. 4385  
 Botar, A. 519  
 Botes, D. P. 2673  
 Botev, B. 4884  
 Bothing, B. 690  
 Botvin'eva, A. M. 2333, 5100  
 Bouchard-Ewing, J. L. 1435  
 Bouchilloux, S. 3987  
 Bouco, L. 4255  
 Boucrot, P. 2806  
 Boulton, A. A. 2249, 2299  
 Boulton, M. G. 2113  
 Boundy, J. A. 1248  
 Bourat, G. 371  
 Bourgain, L.-P. 4371  
 Bourgeois, M. F. 2863  
 Bournot, P. 1181  
 Burrelly, I. N. 802  
 Bourzeix, M. 1477  
 Bovalini, L. 4745  
 Bowen, B. E. 3031  
 Bowers, C. Y. 2016  
 Bowers, J. B. 4624  
 Bowman, C. M. 1677  
 Bowman, J. 279  
 Bowman, R. L. 1919  
 Bowman, W. H. 2685  
 Boyd, M. R. 4328  
 Boyde, T. R. C. 3407  
 Boyle, M. J. 4093  
 Boynton, C. D. 604  
 Bozesanu, M. 4659  
 Bozzi, F. 3519  
 Bradbury, A. F. 2666  
 Brade, V. 433  
 Bradford, P. A. 4699  
 Bradova, Z. 5281  
 Bradshaw, R. A. 2025, 2028, 2033, 2038, 2076,  
 2471, 2921  
 Brady, L. R. 310  
 Brady, R. O. 187, 491  
 Braestrup, C. 5119  
 Bragg, P. D. 4491  
 Bragina, V. V. 5374  
 Brajter, K. 4271  
 Brandänge, S. 2569, 4128  
 Brandenberger, H. 4127  
 Brandi, G. 2779, 3434, 3716  
 Brandon, P. C. 715  
 Brandt, M. K. 1454, 4929  
 Brandtzaeg, P. 3165  
 Brantner, A. 850  
 Branzoli, U. 5010  
 Braselton, Jr., W. E. 594, 2292  
 Bratov, K. B. 908  
 Braun, D. 1366  
 Braun, D. G. 2913  
 Braun, I. 645  
 Braun, J. J. 730, 1035  
 Braun, R. 4873  
 Braun, T. 798, 799, 1884, 2186, 2187,  
 4166  
 Braun, V. 2833, 3430  
 Bray, D. 3391  
 Brden, E. N. 1687  
 Brdička, R. 2444, 2679  
 Brecher, A. S. 3317  
 Bredenstein, O. 3944  
 Breimer, D. D. 1170, 2772, 5110, 5111  
 Breiter, J. 4447  
 Brenchley, P. 4978  
 Bresnick, E. 5004  
 Breter, H.-J. 3763  
 Bretthauer, R. K. 2274  
 Bretzel, G. 676, 677, 931  
 Breuer, H. 3828, 4367  
 Breuer, J. 3828  
 Brewer, J. M. 721, 1026, 2039  
 Brewer, P. I. 4677  
 Brewer, S. J. 1657  
 Breyer, A. C. 2323  
 Brick, I. 4550  
 Brickman, L. 3069  
 Bricteux-Grégoire, S. 5178  
 Bridges, A. C. 5346  
 Bridson, W. E. 2936  
 Brien, J. F. 2183, 5112  
 Brien, R. 5117  
 Brignocchi, A. 1179  
 Brimacombe, R. 1058  
 Brimhall, B. 4743  
 Brinkman, U. A. Th. 959, 2890  
 Brittain, P. N. 2179  
 Broadhead, G. D. 5320  
 Brocco, D. 2570, 2848, 3054, 3262  
 Brock, W. A. 656  
 Brockerhoff, P. 984  
 Brockhaus, A. 2723  
 Brocklehurst, K. 4167  
 Brötell, H. 75  
 Brohult, J. 1667  
 Broich, J. R. 951  
 Brombeer, J. 2775  
 Brongers, M. 1724  
 Brooker, G. 773, 3622  
 Brooker, S. E. 4988  
 Brooks, C. J. W. 50, 1773, 1984, 1985  
 Brooks, I. B. 1409  
 Brooks, J. B. 3611, 4601  
 Brooks, J. J. 1094  
 Broomfield, C. A. 189  
 Bros, E. 1752, 2516

- Brossmer, R. 984  
Brostrom, M. A. 2686  
Brot, N. 785  
Brouquet-Yager, M. 1662  
Brouwer, M. 982, 1295  
Brown, B. I. 3083, 3266  
Brown, C. 5107, 5269  
Brown, G. A. 3604, 3609  
Brown, G. G. 2086  
Brown, J. K. 4432  
Brown, J. L. 738, 1040  
Brown, J. P. 316, 5225  
Brown, K. 5000  
Brown, K. L. 426  
Brown, M. J. 2652  
Brown, N. L. 4329  
Brown, P. R. 1328, 2397, 2697, 4760  
Brown, W. 1887, 3117  
Brown, W. E. 1323  
Browning, E. T. 2686  
Brownlee, G. G. 5343  
Brownlee, S. M. 3391  
Bruce, W. N. 821  
Bruening, W. 1101  
Brugnes, A. J. 2383  
Brugues, A. J. 372  
Bruice, T. C. 2330  
Brull, E. E. 5087  
Brummelhuis, H. G. J. 2675  
Brun, G. L. 331, 909  
Bruner, F. 3032, 3543  
Brunet, P. C. J. 5358  
Bruni, G. 80  
Brunner, C. A. 1544  
Brunngraber, E. F. 3171  
Brunngraber, E. G. 2797  
Brunswick, D. J. 3832  
Brush, J. S. 2051  
Brushmiller, J. G. 5230, 5235, 5236  
Brust, O.-E. 1885  
Bruyere, Jr., H. J. 4025  
Bruzzone, A. R. 4778  
Bryce, C. F. 1008  
Bryce, C. F. A. 443  
Brzozowski, S. 1886  
Bublik, L. I. 910, 917  
Buchanan, K. D. 158, 458, 2019  
Buchbauer, G. 1545, 4917  
Buchner, M. 2424  
Buchvarova, N. 2877  
Buck, C. A. 1964  
Bucke, C. 4980  
Buckee, G. K. 106  
Buckingham, D. A. 1385, 4272  
Bucolo, G. 285  
Budde, W. L. 5099  
Buddecke, E. 1982, 2928  
Budewski, O. 1459, 1523  
Budka, H. G. 110  
Budowski, P. 320, 3597, 3928  
Budowsky, E. I. 2146, 4882  
Budzynska-Topolowska, J. 868  
Büchi, J. 355  
Buechner, M. 977, 1283  
Bückingthrom, E. 990  
Bücking-Throm, E. 706  
Bühler, C. 4580  
Bufton, S. F. 1023  
Buggi, Ch. J. L. 4246  
Bugrova, L. V. 585  
Bugyaki, L. 2451  
Buist, N. R. M. 4218  
Buka, M. 494  
Bukina, N. V. 5372  
Bukko, N. A. 3903  
Bukovac, J. 3242  
Bulanov, V. V. 701  
Bullock, L. E. 1091  
Bulygin, B. M. 3614  
Burch, R. E. 2789  
Burczyk, L. 5304  
Burd, J. F. 1645  
Burdick, D. 3152  
Burgess, R. C. 2452  
Burgett, C. A. 4131  
Burgos, C. 3468  
Burgoyne, L. A. 1059  
Burini, R. C. 2995  
Burka, L. T. 4328  
Burke, D. E. 3331  
Burke, J. A. 2705  
Burke, M. F. 1772, 2519, 4143  
Burnell, J. N. 3228  
Burnett, D. 2648  
Burnev, N. P. 2630  
Burnotte, J. 1002  
Burns, D. T. 2341, 3392  
Burnstein, I. 1423, 1597  
Burova, M. O. 4086  
Burrell, D. C. 3592  
Burriss Garrett, R. J. 707  
Bursa, S. 640  
Burstein, I. 2005  
Burstein, Y. 1936  
Burton, J. 3909  
Burylina, T. S. 544  
Busch, H. 2962, 2964, 4226, 5026  
Buscher, H. P. 4723  
Busev, A. I. 4940  
Bush, B. 1880  
Bushuk, W. 2430  
Busiello, E. 795, 1063, 2230  
Busse, W.-D. 1296  
Bussey, R. J. 5386



- Buter, R. 2874  
 Butler, C. C. 4656  
 Butler, W. T. 2024  
 Butnaru, R. 213  
 Butow, R. A. 1715  
 Butterfield, A. G. 1987  
 Buttress, N. 4019  
 Butts, T. J. 4273  
 Buys, T. S. 527, 1728  
 Byast, T. H. 628  
 Bylina, A. 1870  
 Byrde, R. J. W. 2398  
 Byrne, P. V. 4761  
 Byrnes, P. W. 3554  
 Bzhasso, N. A. 2218
- C**
- Caban, C. E. 5204, 5456  
 Cacace, M. G. 2082  
 Cacan, R. 2481  
 Caccia, S. 2590  
 Caddy, B. 1819, 2589, 2591, 3102  
 Cagan, R. H. 712, 1019  
 Calabresi, P. 2697  
 Caldeira, P. P. 4863  
 Caldes, G. 2275  
 Caldwell, B. V. 656  
 Caldwell, J. 247, 248  
 Calhoun, L. 1694, 2476  
 Calissano, P. 152, 451  
 Callaghan, O. H. 515  
 Callahan, P. X. 5336  
 Callewaert, D. M. 3467, 3728  
 Callmer, K. 5140  
 Calvaruso, G. 4821  
 Calverley, R. 4851  
 Calzolari, C. 4915  
 Camejo, G. 2413  
 Camero, A. A. 4273  
 Camin, D. L. 4663  
 Cammarano, P. 1690  
 Campana, A. O. 2995  
 Campbell, B. H. 226  
 Campbell, D. O. 4274  
 Campbell, R. L. 2006  
 Campion, T. H. 1522  
 Campos, L. C. 4488  
 Camps Mestre, J. M. 372, 2383  
 Canic, V. 2248, 3913  
 Canić, V. D. 849  
 Cann, J. R. 3908  
 Cantafora, A. 1270, 1988  
 Cantagalli, P. 2939  
 Cantatore, P. 1718  
 Cantz, M. 373
- Canulli, C. 3032  
 Canuti, A. 911  
 Capaldi, R. A. 995  
 Capek, K. 3668  
 Capito, K. 1269, 1488  
 Caprilli, F. 2796  
 Cardenas, J. M. 5455  
 Cardini, F. G. 4436  
 Cardona, R. A. 1531, 3931  
 Carey, N. H. 5477  
 Carlblom, L. H. 3582  
 Carlier, A. 2390  
 Carlier, M.-F. 1646  
 Carlo, M. J. 5279  
 Carlson, D. M. 3213  
 Carlson, J. 1326  
 Carlson, L. M. 418  
 Carlsson, J. 4167  
 Carlsson, U. 4963  
 Carlyle, D. W. 4279  
 Carminatti, H. 1591  
 Caron, M. 3166  
 Carpena, O. 938  
 Carpenter, B. T. 2648  
 Carpi, G. 4404  
 Carr, C. D. 5141  
 Carr, H. S. 2739  
 Carr, P. J. 1520  
 Carraway, K. L. 5432  
 Carraway, R. 3423  
 Carrea, G. 1289, 1598  
 Carriett, B. 1675  
 Carroll, C. J. 1496  
 Carroll, M. 176, 482  
 Carson, J. W. 3562, 5066  
 Carter, D. 35  
 Carter, D. B. 5438  
 Carter, Jr., J. R. 1716, 3437  
 Carter, N. D. 2477  
 Carter, S. B. 67  
 Carter, W. H. 5334  
 Cartigny, B. 4890  
 Cartoni, G. 4649  
 Cartoni, G. P. 4644  
 Carvalhas, M. L. 3306  
 Casellato, M. M. 1289, 1598  
 Casey, A. C. 2777  
 Casey, R. 4495  
 Cashel, M. 3326, 4877  
 Cashman, P. J. 790, 1376  
 Casida, J. E. 1160, 4902  
 Casola, L. 4872  
 Casselman, A. A. 69, 586, 5088  
 Castaldo, A. 1478  
 Castellana, F. S. 1839  
 Castellani, I. 1285  
 Castello, G. 1077, 1078

- Castells, R. C. 36  
Castilla, J. 425  
Catalin, J. 899  
Catsimpoalas, N. 1574, 1575, 1576,  
2897  
Catt, K. 3966  
Cattabeni, F. 605  
Cattin, G. 220  
Cattolico, R. A. 1052  
Cavalli, A. 4644  
Cavari, B. Z. 163  
Cavazzini, G. 1995  
Cavina, G. 1270, 1988  
Cawley, L. P. 3573  
Ceausescu, E. 1367  
Cederbaum, A. 1715  
Cedergren, R. J. 303, 765  
Čejka, J. 2052  
Cenci, P. 1995  
Cerbone, F. 1690  
Černáček, P. 1426, 2670  
Cerny, E. A. 3974, 4239  
Černý, M. 5157  
Červená, I. 3800  
Červinka, V. 3218  
Cesaire, G. 4918  
Cha, S. 4962  
Chabard, J. L. 2999  
Chabrelie, C. 946, 2349  
Chadwick, R. W. 617  
Chae, C.-B. 2963, 5438  
Chaigneau, M. 1827, 2595  
Chakrabarti, P. B. 1709  
Chakraborty, P. R. 3475  
Chakrawarti, P. B. 4543  
Chalk, R. C. 1414  
Chalkley, R. 2030  
Challa, G. 2874  
Chalmers, R. A. 4585  
Chambaz, E. M. 1141  
Chamberlain, J. P. 5439  
Chambers, M. M. 2657  
Chambers, R. W. 2126  
Chambon, P. 4378  
Chambon, R. 4378  
Chan, A. S. K. 4769  
Chan, C. S. G. 5314  
Chan, Jr., H. T. 278  
Chan, N. G. 3690  
Chan, S. L. 2638  
Chan, T. L. 952  
Chan, W. W.-C. 2116  
Chance, K. H. 3877  
Chanda, S. K. 4013  
Chander, J. 2757  
Chandler, C. D. 1207, 1753, 3125  
Chandler, Jr., C. D. 4700  
Chandler, J. H. 630  
Chandra, K. 1737, 4964  
Chang, C. W. 1710  
Chang, L. M. S. 2083  
Chang, M. 1260, 2623  
Chang, M. S. 1365  
Chang, Nan-Chen 1479  
Chang, R. C. 1778  
Chang, S. S. 2807  
Chang, Y.-C. 2687  
Change, F. S. C. 2172  
Changeux, J. P. 713  
Chan-Santos, E. 4304  
Chao, K.-L. 4313  
Chapel, A. 2965  
Chapeville, F. 762, 763, 1049  
Chapman, B. E. 5427  
Chapman, I. V. 4761  
Chapman, J. R. 2566, 4079  
Chargaff, E. 3171  
Charles, D. 1496  
Charles, M. 1043, 2105  
Charlton, J. C. 1386  
Charpentier, C. 4671  
Charro Arias, A. 2455  
Chasar, D. W. 4885  
Chastrette, M. 2542, 3563  
Chatfield, D. H. 3952  
Chatterjee, A. 3559  
Chatterjee, S. 440  
Chatterjee, S. K. 1003  
Chattoraj, S. C. 600, 1496  
Chau, A. S. Y. 618, 1159  
Chaubal, M. G. 4432  
Chaudhuri, S. 3768  
Chauhan, V. S. 2584  
Chauhen, V. S. 2296  
Chaurasia, M. R. 315, 900, 2325  
Chayen, R. 3958  
Chayutimonkul, L. 1029  
Cheah, K. S. 2072  
Chebotareva, N. I. 2714, 4787  
Chekareva, T. G. 2340  
Chekhuta, O. M. 2524  
Chekmarev, A. M. 253  
Chekmareva, I. B. 864  
Chekryshkina, L. A. 4919, 4920, 5379  
Chelack, W. S. 2861  
Chenchin, E. 278  
Cheng, C. C. 965  
Cheng, H.-Ming 4902  
Cheng, J. Y. 2763  
Chenoweth, D. 2098  
Cherepnova, N. A. 4547  
Cherkasov, I. A. 643  
Chermanova, G. B. 3096  
Chernetskaya, T. I. 583

- Chernokozhin, V. P. 2630  
Chernov, A. Z. 1893, 2630  
Chernova, T. G. 3564  
Chernyak, V. Ya. 1039  
Cherry, J. H. 2084  
Cherry, J. P. 2427  
Cherstvenkova, E. P. 2543  
Chervinskaya, M. A. 824  
Chesler, S. N. 1175, 1735, 2508, 3626  
Chessin, H. 4368  
Cheung, A. L. 4025  
Cheung, H. S. 177  
Cheung, W. Y. 3682  
Chia, L.-L. S. Y. 2893, 3508  
Chiang, M. H. 3682  
Chiari, A. 3943  
Chiarugi, V. P. 153, 453  
Chiavari, G. 4588  
Chiba, Y. 2435  
Chibata, I. 1325, 4711, 4717  
Chiche, P. 2494  
Chichiro, V. E. 340, 1513, 2353  
Chick, M. 4843  
Chidsey, C. A. 2592  
Chien, J. L. 861  
Chien, P. L. 965  
Chiesa, E. P. 4433  
Chilcote, D. D. 1377, 3183, 4555, 4718, 4762  
Childs, E. A. 2440  
Chilla, R. 4466  
Chin, Y. Y. 3821  
Chirikdjan, J. J. 3268  
Chirikjian, J. G. 2391, 3179  
Chistota, L. M. 1387  
Chitumbo, K. 1887, 3117  
Chiu, A. O. S. 191  
Chiu, J. 4634  
Chiu, P. 2786  
Chizhkov, V. P. 91, 1095, 4065, 4090, 4152, 5128  
Chládek, M. 2358  
Chmel, K. 265, 840, 4730, 4861, 5396  
Chmelová-Hlavatá, V. 5396  
Chmielowski, J. 5284  
Chmil, V. D. 4153  
Chmutov, K. V. 34  
Cho, K. S. 4352  
Choi, P. M. K. 632  
Chojnacka, G. 833, 2247  
Chong, D. K. K. 2116  
Chou, C-H.J. 426  
Choules, G. L. 392  
Choulis, N. H. 350  
Chousterman, S. 762, 763, 1049  
Chow, Ching-Kuang 2856  
Chow, K.-F. 3499, 3755  
Choy, Y.-M. 589, 3577, 3578, 5078  
Choy-L Hew 4174  
Chrambach, A. 368, 369, 373, 374, 375, 383, 2936, 3458  
Christen, P. 2081  
Christensen, G. 4261  
Christensen, J. M. 154, 454  
Christian, G. D. 1804  
Christie, A. A. 1805  
Christie, W. W. 3618  
Christman, J. K. 5207, 5458  
Christodoulides, L. 4965  
Christopoulos, G. 4645  
Chu, F. K. 501  
Chu, F. S. 4339  
Chuang, L. 5202  
Chuang, R. 5202  
Chumburidze, T. A. 3022  
Chundela, B. 4646, 4650  
Chung, K. C. 1430  
Churáček, J. 3218, 4629, 4667, 4668  
Churi, R. Y. 1537  
Chu-Xuan-Anh 3803  
Ciardi, J. E. 3395  
Ciarkowski, J. 127  
Ciccioli, P. 3543  
Cicero, T. J. 4620  
Cicha, J. 2279  
Cielens, E. 815  
Cieleszky, V. 5253  
Cieri, U. R. 4434  
Cierniewski, C. 3518  
Cifonelli, J. A. 3412, 3673, 5243  
Cimbura, G. 3103  
Cimerman, A. 1418  
Cimino, F. 3395  
Cimmino, A. 2570, 2848  
Ciollaro, G. 4989  
Cirendini, S. 2541  
Cirilli, G. 2156  
Cirillo, V. J. 1072  
Ciutacu, R. 4379  
Civeira, F. 4517  
Claes, P. 3929  
Clark, B. F. C. 3323, 3514  
Clark, J. C. 1372  
Clark, R. C. 1297  
Clarke, E. G. C. 246  
Clarke, S. J. 3405, 3760  
Claude, J. R. 3294  
Clausen, J. 3689, 4351  
Clearfield, A. 1388  
Clearfield, Z. 1204  
Cleland, W. W. 2989  
Clément, J. 2806  
Cleveland, L. 5450  
Click, E. M. 683  
Cliffe, A. J. 65

- Clifford, M. N. 3209  
 Clifford, J. M. 5264  
 Clinch, J. D. 3507  
 Cluff, J. R. 1188  
 Coahran, D. R. 2307  
 Coas, V. 293, 4398, 5330  
 Coassini, L. L. 80  
 Coats, J. R. 330  
 Coch, E. 2730  
 Cochrane, G. C. 3583  
 Cociumian, L. 967  
 Coelho, I. M. 5009  
 Coelho, R. 4220  
 Coen, R. 4540  
 Coffee, C. J. 2027, 2028  
 Coffey, J. C. 3295  
 Coggon, P. 3818  
 Cohen, A. S. 3450  
 Cohen, B. E. 1423, 1597, 2005  
 Cohen, G. H. 4713  
 Cohen, H. J. 4527  
 Cohen, H. P. 4216  
 Cohen, P. 3376  
 Cohen, S. 3651  
 Cohen-Makabeh, M. 2542, 3563  
 Cohn, W. E. 2698  
 Cole, E. R. 68, 312  
 Cole, E. W. 3163  
 Cole, R. 4854  
 Coleman, A. E. 549  
 Coléman, R. W. 4501  
 Collins, D. C. 3530  
 Collins, R. C. 1863  
 Collonna, G. 3446  
 Colman, R. W. 3174  
 Colombani, J. 141, 427  
 Colonna, G. 1478  
 Colowick, S. P. 3976, 3996  
 Comai, K. 2682  
 Comba, M. 1808  
 Combarnous, Y. 3992  
 Comoglio, P. M. 3657  
 Comporti, M. 5083  
 Conder, D. W. 619  
 Conder, J. R. 1231, 4095  
 Conine, F. 2845  
 Conkle, M. T. 2478  
 Conlon, R. D. 105  
 Conn, W. R. 4051  
 Connell, D. W. 4  
 Conner, G. E. 457  
 Connors, K. A. 4288  
 Conrad, P. 1840  
 Constantinescu, A. 1425, 5031  
 Constantinescu, T. 2878, 3924, 3925  
 Constantopoulos, A. 1290, 1291  
 Conti, J. 321  
 Contrea, A. 2753  
 Cook, A. F. 2227, 4244  
 Cook, G. B. 2240  
 Cook, J. M. 3331  
 Cook, L. E. 4595  
 Cook, M. R. 4395, 5353  
 Cooney, D. A. 494  
 Cooper, A. E. 1165  
 Cooper, A. J. L. 5249  
 Cooper, A. R. 1848, 1888, 2173, 2605, 4778, 4664  
 Cooper, B. A. 1788  
 Cooper, D. R. 227, 529, 1841, 2215  
 Cooper, J. K. 4653  
 Cooper, P. H. 3140  
 Cooperman, B. S. 3832  
 Coppiardi, G. 911  
 Coppola, G. 207  
 Corcoran, J. W. 770  
 Corcoy, M. 227, 2215  
 Corina, D. L. 2600, 4602  
 Cornea, F. 3925, 4396, 4397  
 Cornell, J. S. 3424, 3706  
 Cornell, H. J. 4000  
 Cornillot, P. 3166  
 Cornish, D. W. 4638  
 Corvi, C. 933  
 Corvol, P. 3647, 3966, 5148, 5418  
 Cory, J. G. 716  
 Cossari, C. 4236, 4516  
 Costa, E. 605, 938  
 Costantino, U. 1380, 1381, 1382  
 Costilow, R. N. 723, 1028  
 Cot, J. 272, 3379  
 Cotte, J. 3822  
 Cotton, R. G. H. 3433  
 Couch, M. W. 4647  
 Coulson, A. 2488, 3327  
 Coulson, A. F. W. 3335  
 Coulter, B. 1371, 1868  
 Counts, R. B. 2055, 2956  
 Coupe, N. B. 4630  
 Čoupek, J. 1107, 2822, 3658, 3812, 4346, 4770  
 Cournil, I. 2853  
 Court, W. E. 893  
 Courtois, G. 1947  
 Courtois, Y. 5158  
 Coussio, J. D. 4433  
 Covelio, M. 2762  
 Cowan, J. C. 3550  
 Cowley, P. S. 4373  
 Cox, A. R. 1593  
 Cox, B. J. 1676  
 Cox, G. B. 1996  
 Cox, R. A. 3904  
 Coy, D. H. 5334

Coy, E. J. 5334  
 Coyette, J. 4186  
 Cozcolluela, C. 3721  
 Cozzarelli, N. R. 4309  
 Craig, L. C. 1912  
 Craig, S. P. 514  
 Cram, D. J. 2009  
 Cram, S. P. 1735, 2508, 3031, 3626  
 Cramer, F. 781, 4312  
 Cramer, M. 2913  
 Cramer, Y. 5270  
 Crane, L. J. 5459  
 Crane, R. K. 3463  
 Crank, G. 68, 312  
 Cranmer, M. 5098  
 Cranmer, M. F. 2578  
 Cranston, R. W. 3127  
 Crathorne, B. 1796  
 Craven, C. J. 3713  
 Craven, D. B. 4182, 4183  
 Craven, P. A. 5016  
 Crawford, I. P. 654, 971  
 Crawford, M. 4326  
 Crawhall, J. C. 1788  
 Credo, R. B. 5000  
 Cremieux, A. 3310  
 Cremona, T. 1686  
 Crescentini, G. 3543  
 Creusot, F. 4059  
 Crewther, W. G. 1617  
 Crichton, R. R. 443, 1008  
 Crippen, R. C. 4066  
 Cristalli, M. 5273  
 Critchley, C. 3279  
 Croll, B. T. 2568  
 Cronin, D. A. 4582  
 Crook, E. M. 4167  
 Crooks, J. E. 3537  
 Crosby, D. G. 1812, 4624  
 Crosmer, W. E. 5053  
 Cross, A. J. 916  
 Crossley, J. 5348  
 Crossley, J. A. 5472  
 Crowl, J. T. 1364  
 Cruickshank, P. A. 1530  
 Crumpton, M. J. 1244  
 Crvone, F. 4872  
 Crystal, R. G. 1603, 2221  
 Cságyó, E. 2745  
 Csajka, M. 3801  
 Cuatrecasas, P. 3401, 3726, 4175, 4716  
 Cubadda, R. 2428  
 Culp, W. 766  
 Cumins, P. 4467  
 Cumming, R. L. C. 443  
 Cummins, J. M. 4359  
 Cunliffe, W. J. 5114

Cunningham, B. A. 3989  
 Cunningham, C. G. 2180  
 Cunningham, F. E. 1637  
 Cunningham, L. W. 2024  
 Cupp, L. 785  
 Currie, B. L. 2016  
 Curry, M. D. 4992  
 Curti, B. 5010  
 Curtis, C. G. 426, 5000  
 Curtis, M. D. 4251, 4252  
 Curtius, H.-C. 1178  
 Cushman, D. W. 177  
 Čuta, F. 3047  
 Cutting, J. A. 3385  
 Cuveele, J. 1558  
 Cuzzoni, M. T. 306  
 Cvečková, L. 1789, 4635  
 Cvejic, A. 3913  
 Cybulsky, D. L. 2672  
 Cyrot-Pelletier, M. O. 2776  
 Cywinska-Smoter, K. 912  
 Czajkowska, T. 2533  
 Czeplédi-Jankó, G. 72, 4626  
 Czerwiński, W. 523

## D

Dabkowski, G. 5237  
 Dadic, M. 3275  
 Dadone, A. 2243, 2363, 2500, 2501, 4941  
 Daemen, J. M. H. 70  
 Dafaye, G. 1141  
 Daga-Gordini, D. 1293  
 Dagnall, R. M. 2514  
 D'Agnolo, G. 3181  
 Dahlberg, A. E. 1677  
 Dahlberg, J. E. 2483, 2484  
 Dahlen, G. 2414, 4484  
 Dailie, J. 685  
 D'Albis, A. 1632  
 Dale, S. L. 2731  
 Dale Noel, K. 4170  
 D'Alessandro, L. G. 5029  
 D'Alessandro de Luca, E. 3661  
 D'Alessio, G. 3990  
 Dall'Aglio, G. 4404  
 Dallmeier, E. 1947  
 Dalmonego, H. 2193, 5234  
 Dalton, B. P. 165  
 D'Amato, G. 1078  
 Damicz, W. 4215  
 Damodaran, C. 326  
 Damus, P. S. 3400, 3654  
 Danch, A. 5284  
 Danchik, R. S. 4622  
 Dancies, J. 172

- Dancis, J. 479  
 Dando, P. R. 5213  
 Daněk, J. 5281, 5282  
 Danev, S. 3314  
 Daniel, E. 4004  
 Daniels, M. J. 2940  
 Daniewski, M. 5076  
 Dankelman, W. 70  
 Danno, G. 2941  
 Daoust, H. 212  
 Daoust, V. 3579  
 Darbre, A. 4616, 5338  
 Darimont, E. 3967  
 Dark, W. A. 1889, 1932  
 Darlage, L. J. 1086  
 Darlix, J. L. 1061, 1351  
 Dartey, K. C. 3873  
 Darvich, M. R. 1463  
 Dash, M. J. 2412  
 Dateo, Jr., G. P. 3956  
 Datskevich, A. A. 1218  
 Datta, A. G. 2074  
 Datta, D. D. 2842  
 Datta, P. 5203  
 Datyner, A. 3386  
 Daussant, J. 3382  
 Dautigny, A. 141, 427  
 Dautrevaux, M. 4809  
 Davankov, V. A. 2007, 4212  
 David, H. 285  
 Davidson, G. E. 316, 5225  
 Davidson, L. M. 1483  
 Davidson, R. G. 2983  
 Davie, E. W. 2055, 2956, 4005  
 Davies, P. L. 4491  
 Davies, R. C. 4162  
 Davis, D. B. 1365  
 Davis, D. L. 1993  
 Davis, G. M. 2456  
 Davis, J. E. 2578, 5136  
 Davis, J. N. 1658  
 Davis, L. 5450  
 Davis, M. A. F. 5163, 5413  
 Davis, M. H. 4275  
 Davison, J. B. 659  
 Davydov, V. Ya. 1771  
 Dawkins, J. V. 1368  
 Dawkins, Jr., R. C. 788  
 Dawson, C. R. 3472  
 Dawson, D. J. 3713  
 Dawson, R. 2942  
 Day, Ch. E. 2411  
 Day, D. W. 2648  
 Deaconescu, G. 4397  
 Dean, J. A. 613, 1176  
 Dean, P. D. G. 4181, 4182, 4183  
 De Andrade Bruening, I. M. R. 1101  
 De Angelis, R. L. 346  
 Deans, D. R. 1102  
 Debeljuk, L. 5334  
 Debelmas, A.-M. 4338  
 De Bree, P. K. 250, 2137  
 De Burgos, N. M. G. 3468  
 De Cabrera, A. L. A. 4855  
 De Castro Peres, R. F. 2995  
 Dech, G. 2322  
 Dechary, J. M. 2427  
 De Clercq, H. 2879  
 De Clerck, K. 527, 1728  
 De Corte, F. 1250  
 Decosta, J. G. 1438  
 De Czekala, A. 4244  
 Deeble, R. E. 1230  
 Deelder, R. S. 1959  
 Deenen, L. L. M. 3461  
 Deeva, Z. M. 4483  
 Defaye, G. 2229  
 Degand, P. 3413, 3674, 3983  
 Degner, C. 5351  
 Degteva, G. K. 2904  
 Degtyarenko, V. I. 5008  
 Dehm, P. 694, 997, 999  
 Dehn, W. R. 4463  
 Deibler, G. 712, 1019  
 Deil, P. S. M. 1572  
 Deininger, G. 2606, 4087  
 De Jong, W. W. 3998  
 Dekker, E. E. 2006  
 Dekkers, J. 1385, 4272  
 De la Chica, G. 4967  
 Delarco, J. E. 139, 399  
 Delaunay, J. 4059  
 Del Campo, G. B. 448  
 Delcroix, J. P. 2436, 2677  
 De Leenheer, A. 351  
 Deleoil, M. 1209  
 DeLew, R. B. 3014, 4569  
 Delinassios, J. G. 3769  
 Dellacherie, E. 888  
 Delle, S. A. 4794  
 Delle Monache, E. M. 4767, 4768  
 Del Pozo, A. 3247  
 De Luca, D. 2209  
 Deluca, H. F. 4772  
 De Luca, L. 657  
 De Luca, S. 3678, 3679  
 Del Sole, C. 1234  
 De Maeyer, E. 1940  
 De Maeyer-Guignard, J. 1940  
 De Martinez, N. R. 2725  
 Demassieux, S. 5134  
 Demayo, A. 1807, 1808  
 Dembure, P. 2996  
 Demchenko, E. P. 334

- Demchuk, V. V. 386  
Demeester, G. 3691  
Dement'eva, M. I. 1767, 5062, 5071  
Demetriou, B. 5380  
Demidova, T. V. 602  
Deml, M. 4657  
Demuth, M. 2881, 5383  
Denisenko, A. N. 1096  
Denisova, L. V. 3527  
Denisova, V. I. 2543  
Donkersloot, J. A. 4332  
Denning, J. A. 641  
Dennis, E. A. 2798  
Dennison, C. 4738  
Denny, R. C. 1880  
Denslow, J. 1799  
Denson, K. B. 1211  
DePamphilis, M. L. 2989  
Derevitskaya, V. A. 1583, 1969, 1970  
Derge, K. 3555, 4159  
Derksen, A. 3376  
Deroo, P. W. 2802  
Dertinger, G. 3945, 4886  
Deryuzhkin, R. I. 1833  
De Sante, D. M. 735, 1038  
Deschamps, N. 802, 4284  
Descimon, H. 1433, 2607, 3241  
Descy, M. I. 5428  
Desey, M. 5181  
Deshmukh, K. 2060  
Desideri, P. G. 293, 2364, 4398, 5330  
De Silva, J. A. F. 4137  
Desnuelle, P. 1043, 2105  
De Souza, J. A. 2499  
Dessauer, H. C. 2454  
De Stefano, J. J. 1900, 1913  
Detaevernier, M. 5369  
Detmer, J. 5388  
Dettabarn, W.-O. 5193, 5448  
Deur-Šiftar, D. 4654  
Deutsch, D. G. 658  
Deutsch, E. 4270  
Devadasan, K. 2441  
Devenyi, T. 880, 886  
De Villafranca, G. W. 4007  
De Vries, G. 959, 2890  
De Vries, H. 3002  
Devyatykh, G. G. 1135, 3613  
De Weck, A. L. 2748  
Dewedar, A. 4412  
DeWitt, W. 4515  
Dey, P. M. 178  
Deyl, Z. 2375, 4665  
De Zeeuw, R. A. 1546, 2772  
Dezelic, G. 4205  
Dezelic, N. 4205  
Dgebuadze, M. K. 4838  
Dhondt, J. L. 4890  
Dhont, J. H. 5272  
Diaconescu, G. 4396  
Diamond, E. M. 717  
Dias, J. R. 2254  
Díaz, S. 574, 847  
Díaz Borges, J. M. 4528  
Di Carlo, F. J. 354  
Dickerson, P. E. 5474  
Dieckhoff, M. 4381  
Di Corcia, A. 581, 1097, 4603  
Di Donato, A. 3990  
Diedrich, D. F. 4024, 4176  
Dielmann, G. 2554  
Dieminger, L. 4987  
Diesel, P. 5291  
Dietrich, C. P. 3414, 3669, 5405, 5407  
Dietrich, L. S. 2466  
Dietrich, M. W. 4150  
Dietrichs, H. H. 109  
Dietsch, G. 3126  
Diez, V. 1474  
Diez-Antonanzas, J. 4517  
Diez de Bethencourt, C. A. 4777  
Diezel, W. 4038  
Diggelman, H. 1927  
Di Girolamo, A. 795, 1063  
Di Girolamo, M. 795, 1063, 2230  
DiGregorio, G. J. 5355  
Dilks, Jr., Ch. H. 3660  
Dilley, S. 1522  
Dilts, C. A. 2718  
Dilworth, III, R. H. 376  
Di Matteo, G. 4872  
Dimitt, M. K. 2135  
Dimov, S. 3211  
Dimov, V. 1251  
Dingjan, P. G. 2979, 4046  
Dingle, J. T. 116  
Dintzis, F. R. 4696  
Dinulescu, E. 5331  
D'Iorio, A. 4528  
Diosady, P. L. 1157  
Di Palo, V. 3054, 3262  
Di Prisco, G. 4872  
Dirksen, M. L. 369  
Distanov, B. G. 2537  
Di Stefano, V. 2625, 2722  
Di Salle, E. 2592  
Diskina, D. E. 3009, 3021  
Distler, J. J. 3232, 3488, 3646  
Divaker, N. G. 2751  
Dixit, S. N. 400, 678  
Dixit, V. K. 2729  
Dixon, G. H. 409, 682, 1587, 3159  
Djøseland, O. 2817, 5315  
Dmitriev, L. B. 607

- Doane, J. 1156  
Dobbs, R. A. 3640  
Dobronravova, E. K. 3918, 3957  
Dobson, R. C. 587  
Dodonder, R. 1298, 1609  
Doel, M. T. 4165  
Doering, C.-E. 569  
Doering, K. M. 4466  
Dohke, K. 2128, 5194, 5449  
Doi, S. 4410  
Doisy, Jr., E. A. 2662  
Dokladalova, J. 623  
Dolan, J. W. 3012  
Dolgikh, P. N. 2904  
Dolejš, L. 1352  
Dolova, I. A. 37, 548  
Dolphin, R. J. 1989  
Dolzhenko, T. G. 2188  
Domagk, G. K. 4466  
Domanik, R. A. 5000  
Domazet, Z. 659, 1265  
Domingo, N. 4729  
Domínguez, J. A. G. 4097  
Dominici, A. M. 853, 878  
Donald, A. S. R. 3709  
Donaldson, B. 61  
Donath, R. 1467, 1957  
Donay, F. 4032  
Donike, M. 62, 1738, 2764, 5387  
Donnell, G. N. 3504  
Doorenbos, N. J. 4438  
Doree, M. 1428  
Dorfman, A. 4188  
Dorokhov, A. I. 38  
Dorough, H. W. 1531, 3931  
Dorson, J. W. 735, 1038  
Dose, K. 976, 2014  
Dotsenko, V. L. 692  
Douce, R. 2288  
Dougan, J. 3081  
Dougharty, N. A. 5035  
Douglas, A. G. 4067  
Douglas, D. R. 1831  
Dounce, A. L. 4013  
Dowd, G. 2384  
Dowty, B. J. 3120  
Drabkin, B. S. 422  
Drach, J. C. 302  
Draghici, R. 1802  
Dragulescu, C. 2753  
Draisey, T. F. 4299, 5251  
Drapier, A. M. 1903, 2214, 2720, 4853  
Draper, R. E. 2706  
Drapiers, A. M. 4702  
Drauzin, A. Ya. 646  
Drawert, F. 79, 1273  
Dreiling, R. 2626  
Dreux, C. 2934  
Drevin, H. 3124  
Drewnowska, I. 395, 2997  
Drewry, D. T. 3883  
Drews, J. 4518  
Dreyfuss, G. 3958  
Dreyfus, J.-C. 489, 3481, 4750, 5013  
Dring, L. G. 247, 248, 3847  
Drobyshev, V. I. 4245  
Dron, L. P. 913  
Drouet, J. 3966  
Drovyannikova, G. V. 2561  
Drozdov, V. A. 71  
Drozdova, O. A. 3897  
Drurik, R. 2670  
Drygas, M. 3932, 4135  
Dryon, L. 5369  
Dshoneydi, M. 1459  
Dubin, D. T. 5476  
Dubochet, J. 1701  
Dubost, M. 3343  
Dubovitskii, F. I. 4655  
Dúbravková, L. 1352  
Dubrova, T. V. 3375, 4943  
Dubrovina, V. A. 3057  
Dubsky, H. 4172  
Duch, D. S. 1345  
Duchesne, Y. P. 57  
Duckett, R. J. 5053  
Duda, J. 273, 2301  
Duden, R. 4851  
Dudenhause, J. W. 882  
Dudman, N. P. B. 1647, 5451  
Dudock, B. 1340  
Dudorov, V. Ya. 5125  
Dudzinski, J. 342  
Duenges, W. 1166, 1766  
Duerst, M. 4743  
Duffield, A. M. 1505  
Dugal, S. 4262  
Dugandzic, M. 1560, 4452  
Duhaut, J. 520  
Duignan, C. F. 4373  
Duke, E. J. 2463  
Duke, J. 5243  
Duke, P. D. 1874  
Dukhovnaya, I. S. 4868  
Dumenil, G. 3310  
Dumitrescu-Mancheron, D. 946, 2349  
Dumont, F. 4548  
Dumont, P. A. 1797  
Dunaevskaya, N. A. 2236  
Duncan, B. K. 2392, 3172  
Duncan, D. M. 1579, 1962  
Duncan, R. D. 2756  
Dunea, G. 2960, 3394, 4511  
Dungan, S. M. 5203



Dunham, E. W. 4726  
 Dunham, V. L. 2084  
 Dunn, J. H. 1429  
 Dunski, K. 5283  
 Dunstan, P. M. 2600  
 Duntze, W. 706, 990  
 Dupetit, O. A. 2495  
 Dupon, C. 4207, 4731  
 Du Pont de Nemours, E. I., and Co 1890  
 Dupuy, H. P. 3074  
 Dupuy, W. E. 570  
 Dupy, J. 309  
 Duquenois, P. 3848  
 Durantton, H. 3711  
 Durbin, D. E. 1109  
 Durden, D. A. 2299  
 Dure, III, L. S. 2140  
 Durkó, I. 3927  
 Dutrecq, A. 520  
 Dutta, B. K. 4411  
 Dutta, J. 3073  
 Dutton, G. G. S. 589, 590, 3068, 3577, 3578, 5078  
 Dutton, H. J. 4082  
 Duyckaerts, G. 1404  
 Dvir, R. 3958  
 Dvoeglazov, G. V. 1747  
 Dvong, C. 4220  
 Dworkin, C. 167  
 Dwyer, Jr., R. W. 2509  
 Dyatlovitskaya, F. G. 4419  
 Dybczyński, R. 4788  
 Dyer, A. 1389  
 Dyson, R. D. 5455  
 Dytkowska, O. 5286  
 Dyuzhev-Mal'tsev, V. L. 5059  
 Dzhiyanbaeva, R. Kh. 205  
 Dzhumashev, A. 3914  
 Dzurik, R. 1426  
 Dzyuba, N. P. 1422

## E

Eagles, P. A. M. 4566  
 Eaglesham, A. R. J. 4955  
 Eaker, D. 1316  
 Ealy, J. A. 613  
 Easterly, D. G. 1409  
 Easton, D. P. 5439  
 Eaton, H. G. 1133, 4571  
 Ebashi, S. 2961  
 Ebel, A. 5417  
 Ebel, S. 266, 1748  
 Ebels, I. 3830  
 Ebermann, R. 1623  
 Ebert, H. 3704

Ebinger, G. 3368  
 Ebisui, S. 3202, 4792  
 Ecarot, B. 303  
 Eccles, H. 803, 3802  
 Ecker, E. 98, 99, 3126  
 Eckert, E. A. 2918  
 Eckert, W. R. 592  
 Eckhart, E. 535  
 Eckrich, W. 1158  
 Eckstein, F. 4308  
 Eckstein, G. 2192  
 Ecobichon, D. J. 483  
 Edelstein, C. 4204, 4487  
 Edelstein, D. 2418  
 Eder, H. 2781  
 Eder, H. A. 2418  
 Edge, M. D. 3911  
 Edmonds, M. 1683  
 Edmons, M. 3486, 3739  
 Edwards, J. C. 5114  
 Eechaute, W. 3691  
 Efendieva, N. F. 4196  
 Efimov, V. D. 1112, 1113  
 Efremov, G. D. 5187  
 Egami, F. 460, 754, 2102  
 Egashira, S. 1252  
 Egawa, Y. 5367  
 Egg, D. 3296  
 Eggert, F. M. 2452  
 Egikyan, R. T. 2252  
 Eglite, G. 816  
 Egorov, M. E. 560  
 Egorova, T. N. 4129  
 Eguchi, Y. 809, 3214  
 Egupova, L. M. 2537  
 Ehlerdings, S. 1219  
 Ehnholm, C. 1590  
 Ehrhart, L. A. 2422, 2497, 4993  
 Ehrlich, B. S. 1842  
 Ehrlich, E. 4220, 4224  
 Ehrsson, H. 75, 1167  
 Eichberg, J. 3280, 4805  
 Eichelberger, J. W. 5099  
 Eichler, D. C. 4705  
 Eiden, F. 4921  
 Eiden, J. J. 3512, 3912  
 Eidler, Ya. I. 3893  
 Eiger, V. I. 3851  
 Einarsson, K. 2818, 3890  
 Einarsson, M. 3648, 4049  
 Einasson, K. 3297  
 Eisen, A. Z. 2471  
 Eisenbeiss, F. 1219, 2162  
 Eisenberg, S. 2415, 4519, 4990  
 Eisenbrand, G. 2663, 3899  
 Eisenstadt, J. M. 1305, 1675  
 Ekloff, H. 4289

- Eksborg, S. 1843  
Elbanowska, H. 2339  
Elbein, A. D. 3496, 3753  
El-Darawy, Z. I. 249, 1238, 1441, 2348, 4907  
Eldefrawi, M. E. 4820  
Eldjarn, L. 1171  
Elepina, L. T. 4813  
Elgar, K. E. 2867  
Elgin, S. C. R. 2973, 4060  
Eliel, E. L. 1775  
Elikhan, M. A. 2445  
Elion, G. B. 4246  
Elkana, Y. 4047  
Elkin, K. 537  
Ellar, D. J. 2291  
Ellingson, J. S. 4353  
Elliot, W. H. 2662  
Elliott, W. B. 485, 744  
Elliott, W. H. 5322  
Ellis, B. E. 1424  
Ellis, R. J. 3162, 4955  
Ellis, R. Q. 3623  
Ellis, S. 5336  
Ellis, S. R. 3645  
Ellrén, O. 5096  
Elmelo, J. 828  
Elmore, D. T. 158, 458, 2019  
El Mounajjed, D. 4439  
El-Refai, A. 3244  
Elson, D. 5445  
Elson, N. A. 1603, 2221  
Eltekov, Yu. A. 1891, 1894  
Emel'yanova, O. A. 3111, 4587  
Emura, J. 2656  
Enache, S. 2878, 3924  
Enagonio, D. P. 1206  
Enderby, G. 4965  
Endo, Y. 4737  
Ener, M. A. 3692  
Eneroth, P. 2816, 4206  
Eng, L.-I. L. 3991  
Engel, L. L. 594, 2292  
Engelhardt, H. 1205, 3643  
Engelsing, R. 3922, 4892  
Enger, M. D. 5256  
Englard, S. 4897, 5155  
Engle, J. L. 3484  
Engst, R. 1467, 1957  
Entelis, S. G. 1370, 4263, 4264  
Entlicher, G. 114, 389, 4499  
Enzell, C. R. 4125  
Eon, C. 1125, 1844  
Epps, J. E. 354  
Erb, W. 2814, 3369  
Erdahl, W. L. 1879, 4856  
Erdman, V. 1678  
Erdmann, D. E. 4660  
Erdős, E. G. 3380, 3751  
Er-El, Z. 2629  
Eremiu, V. P. 736  
Erffe, J. D. 3180  
Erickson, M. 54, 4116  
Ericson, C. 2414, 4484  
Eriksson, H. 173, 480  
Eristavi, V. D. 4276  
Ermakov, A. N. 3001, 3375, 4943  
Ermakova, P. N. 2714, 4787  
Ermolaev, V. S. 4245  
Ermolenko, I. N. 4277  
Ernst, J. O. 4082  
Ernster, L. 1943  
Ersson, B. 2639  
Ersson, N. O. 4484  
Ervast, H.-S. 4471  
Ervik, M. 4639  
Escamilla, E. 4967  
Eschenhof, E. 953, 3953  
Esders, T. W. 3182  
Esipov, S. E. 5366  
Eskes, D. 3332  
Esnouf, M. P. 2432  
Espinoza, Cl. 4255  
Esposito, G. G. 3263  
Esselman, W. J. 3281, 3289  
Estas, A. 1797  
Estel, D. 569  
Esterson, G. L. 35  
Estevez Reyes, R. 3210  
Estvanik, S. M. 2046  
Etemadi, A. H. 416  
Etinger, A. S. 4758  
Etournaud, A. 4852  
Ettre, L. S. 4558, 4559  
Etzweiler, F. 1754, 4577  
Eugster, C. H. 2854, 3896  
Eujen, E. 3872  
Euw, J. von 3849  
Evans, D. J. 4479  
Evans, D. J. R. 3436  
Evans, E. 1821  
Evans, F. J. 4373, 4375, 4734  
Evans, G. W. 702  
Evans, M. B. 1730  
Evans, M. C. W. 2048  
Evans, R. J. 140, 417  
Evans, R. T. 5089  
Evans, W. J. 4771  
Eventoff, W. 5147  
Everaerts, F. M. 365  
Everett, Jr., G. W. 5230, 5235, 5236  
Every, D. 3175  
Evseenko, L. K. 701  
Evseeva, T. I. 2543

Ewart, J. A. D. 2429  
 Eyem, J. 603  
 Eymard, P. 4450  
 Eyre, D. R. 679  
 Ezhikova, Z. A. 5265  
 Ezrets, V. A. 3018, 3044

## F

Fabbri, P. 207  
 Faber, D. B. 2844  
 Faberova, A. 4489  
 Fabia, F. 3166  
 Fabre, F. 2224  
 Fábry, M. 5173  
 Fachini, G. 1289, 1598  
 Faden, R. B. 3849  
 Faerman, V. I. 5125  
 Fagerson, I. S. 3138  
 Fahey, J. E. 587  
 Fahnestock, S. 1678  
 Faillard, H. 1581, 1968, 4342  
 Fainerman, V. I. 47  
 Fairweather, R. 686, 987  
 Faivre, B. 889, 890, 1599, 1600, 1903, 2310, 2311, 2720, 4702, 4853  
 Faivre, L. 2780  
 Fajkoš, J. 1271, 1272  
 Faktorova, I. E. 47  
 Fales, H. 3900  
 Falk, E. 361  
 Falk, H. 957  
 Falkay, G. 3298  
 Falkenberg, F. 4753, 5017  
 Falkner, F. C. 4640  
 Falmagne, P. 2117  
 Fancovic, K. 2815  
 Fang, S. 688, 991  
 Fannin, F. F. 4024, 4176  
 Farag, A. B. 798, 1884, 2187, 4166  
 Fardin, I. 3300  
 Fardman, S. S. 2520  
 Fardy, J. J. 4154  
 Faredin, I. 3304, 4733  
 Farid, N. A. 4889  
 Farkas, J. 1221, 1589, 2632, 3261, 3764, 5218  
 Farkaš, V. 3742  
 Farkash, R. 4027  
 Farquharson, T. E. 3220  
 Farriaux, J. P. 4890  
 Farron, F. 4532  
 Farrow, J. E. 1528, 2576  
 Fasella, P. 1034  
 Fasman, G. D. 1002  
 Fass, D. N. 1866  
 Fateeva, V. M. 23, 1729, 3016  
 Fatkullina, A. F. 3050  
 Fatoum, A. 5180  
 Fatterpaker, P. 714  
 Fattoum, A. 5425  
 Fauconnier, B. 1940  
 Faugas, G. 2884, 4887  
 Faulstich, H. 298, 1281  
 Fauran, F. 4918  
 Faure, A. 3166  
 Faust, Jr., C. H. 1927  
 Fausto, N. 1682  
 Favorov, V. V. 1928, 1929  
 Favorskaya, I. A. 669, 885  
 Favretto, L. 2370, 4915  
 Favretto Gabrielli, L. 2370  
 Fawaz, F. 3141, 3884  
 Fazekas, A. G. 2129  
 Fazio, T. 1997  
 Fedchenko, G. S. 1767, 2534  
 Fedchuk, V. M. 2525  
 Fedorenko, N. A. 5265  
 Fedorin, G. F. 4840  
 Fedorova, L. A. 78  
 Fedorova, L. I. 1815  
 Fedorova, L. N. 2334  
 Fedorova, N. E. 3851  
 Fedorovich, R. M. 2560  
 Fedyachkin, M. M. 33  
 Fee, D. C. 3619  
 Feher, T. 2712  
 Feinstein, A. 4019  
 Feinstein, G. 161, 464, 1930, 5217, 5468  
 Felder, E. 1786, 1787  
 Feldman, J. M. 279  
 Feldman, T. 2907  
 Felgenhauer, K. 428, 3403  
 Felici, R. 5273  
 Felix, A. M. 1914, 5274  
 Fell, B. 1780  
 Felmly, D. A. 240  
 Felsted, R. L. 2099, 2104, 2980, 2982  
 Fenimore, D. C. 4138  
 Feoktistova, A. K. 131  
 Feramisco, J. R. 4051  
 Ferapontov, V. A. 611  
 Ferguson, J. B. 3743  
 Ferguson, M. J. 1715  
 Ferguson-Smith, M. A. 1579, 1962  
 Fernandez, A. A. 92  
 Ferrandes, B. 4450  
 Ferreti, A. 2650  
 Ferri, G. 5010  
 Ferri, P. G. 5030  
 Ferrini, U. 1690  
 Ferro-Luzzi Ames, G. 4170  
 Ferry, D. G. 5113

- Ferry, D. M. 5113  
Feuillat, M. 2015  
Feung, C. 3840  
Feung, C. S. 3933  
Fiagbe, N. I. Y. 64  
Fiala, J. 3813  
Fiechter, A. 5195, 5401  
Fiehning, C. 884  
Fielder, D. 3033  
Fielding, J. 4287  
Fiers, W. 1672  
Figert, D. M. 3136, 4911  
Figueira, M. A. 3306  
Fike, R. R. 4825  
Filipiak, K. 4593  
Filler, R. 691, 3970, 4475  
Filliol, D. 1330  
Filonenko, G. V. 4070, 4088  
Finch, L. R. 2223  
Fingas, H. 2241  
Finkelstein, M. 3299  
Fink-Jensen, P. 4261  
Finlayson, J. S. 4508  
Finney, K. S. 5230, 5235  
Finnimore, E. D. 3386  
Fiorella, B. J. 2960, 3394, 4511  
Fiori, A. 2779, 3434, 3716  
Firfarov, K. F. 739, 1041  
Fischer, D. 3235  
Fischer, R. 569  
Fischer, T. 568  
Fischer, W. 1480, 5306  
Fischer-Fantuzzi, L. 795, 1063  
Fischl, M. 2323  
Fish, F. 1819, 2589, 2591, 3102  
Fish, W. W. 1866  
Fishbein, L. 627  
Fisher, D. B. 3469  
Fisher, G. B. 4623  
Fisher, J. F. 4735  
Fisher, L. J. 4648  
Fisher, S. I. 28  
Fisher, W. R. 2073  
Fishman, M. J. 4660  
Fishman, M. L. 3152  
Fishman, P. H. 3505  
Fisk, D. P. 1915, 2631  
Fitak, B. 245  
Fittler, F. 786, 1062  
Fitz, J. S. 2191  
Fitzpatrick, F. A. 4732  
Fjellstedt, T. A. 2392, 3172  
Flack, J. 530  
Flaherty, B. 616  
Flanagan, V. P. 2650  
Flavin, M. 737  
Flayeux, R. 224  
Flegelová, Z. 1589  
Fleischer, S. 457, 5421  
Fleischmann, L. 3838, 4814, 4930, 4931  
Fleischmann, L. E. 2052  
Fleisher, A. Yu. 4203  
Flemons, P. A. 4373  
Fletcher, G. L. 1156  
Fliieger, A. 1448, 4815  
Flinn, P. E. 2251, 4922  
Flint, D. H. 2991  
Florey, K. 5105, 5106  
Florini, J. R. 2308  
Florkin, M. 5178  
Flouret, G. 5344  
Flowers, H. M. 4706, 4848  
Flückiger, R. 1622  
Flügel, R. M. 1329, 1510  
Fluharty, A. L. 185  
Flury, A. 4490  
Flury, U. 5195, 5401  
Flynn, T. G. 4040  
Focant, B. 3963  
Foerd, W. 2976  
Fofanov, V. N. 3272, 4425  
Fogerty, R. 4843  
Fogleman, D. J. 658  
Foissy, H. 3387  
Fokin, A. V. 3087  
Foley, T. 3980  
Folkers, K. 2016  
Follett, M. J. 5347  
Foltz, A. K. 4661  
Fondy, T. P. 1652  
Fontaine, R. 2573  
Fontana, A. 4752, 5015  
Ford, A. 647  
Fore, S. P. 3074  
Forget, P. 3964  
Formica, J. V. 820, 2992  
Forrest, J. E. 609, 4435  
Forsberg, H. 1916  
Forshaw, K. A. 1624  
Forstner, G. G. 1481, 2930  
Forstner, J. F. 2930  
Forte, J. G. 1578  
Foster, J. A. 133  
Fottrell, P. F. 3507  
Fournet, B. 810  
Fournier, A. 4247  
Fox, M. A. 4739  
Frache, R. 2243, 2363, 2500, 2501, 4941  
Fradkin, L. I. 521  
Fraenkel-Conrat, H. 1689, 2142  
Franc, J. 1126, 3222, 3223, 4583  
Franchi, F. 1491  
Franchi, G. 2588  
Francina, A. 4401

- Francis, G. 5168  
Francis, Jr., O. J. 1470  
Francke, A. 1485, 3975, 4232  
Franco, E. 5273  
Frangione, B. 1308, 1612, 3994  
Franiaw, R. 858  
Frank, C. 3704  
Frank, G. 5169  
Frank, J. 666  
Frank, M. J. 317  
Franken, J. J. 73  
Franklin, E. C. 1308, 1612, 3994  
Franklin-Klein, W. 4360  
Frantz, Jr., I. D. 3692  
Franz, Ch. 4865  
Franzblau, C. 133, 686, 987, 5433  
Fraser, M. J. 1037, 2088, 4966  
Freal, J. J. 617  
Frech, H.-A. 1814  
Fredericks, K. K. 184  
Fredrickson, D. S. 2417, 2680  
Freeguard, G. F. 3530  
Freeman, D. H. 93, 1206, 1892  
Freeman, R. R. 1177, 4138  
Freeman, S. 4004  
Freger, A. A. 2561  
Frei, R. W. 275, 277, 329, 791, 839, 1871, 2151, 2250, 2270, 4904, 5271  
Frei-Häusler, M. 275, 2270  
Freimuth, U. 4744  
Frelek, Z. 3225  
French, D. M. 1365  
French, J. A. 862  
French, W. N. 3254  
Frénoy, J. P. 3647, 5148, 5418  
Frenzt, R. 147  
Frères, D. 4405  
Fresco, J. R. 2391, 3179, 3329  
Fressinaud, P. H. 3647  
Freundt, K. J. 1440  
Frey, C. F. 4366  
Freyer, R. 4038  
Freze, N. A. 1465, 1466, 4816, 4837  
Frgala, J. 230  
Friberg, U. 1971  
Fric, F. 3246  
Fricker, A. 4851  
Fričová, V. 3813  
Fridman, V. A. 1120  
Frie, W. 4712  
Friedberg, E. C. 2315  
Friedberg, S. J. 2366  
Frieden, C. 2027  
Friedenthal, M. 725  
Friedman, T. B. 2838  
Friedmann, J. A. 3492, 3746  
Friedrich, H. 2773, 4330, 4937  
Friedrich, W. 819  
Friebring, C. 397  
Friend, D. A. 5476  
Fries, G. F. 620  
Frigeri, L. 1943  
Frigerio, A. 606, 2588, 2590, 2592, 3603, 3943  
Frimmel, F. 5101  
Fritz, D. 4865  
Fritz, D. F. 1103  
Fritz, H. 753, 1045, 4715, 5022  
Fritz, J. S. 800, 1236, 3806, 3807  
Fritz, P. J. 2468, 3470, 5204, 5456  
Fritz, W. 1467, 1957, 1966  
Fritze, K. 3436, 5223  
Frolich, J. C. 3557  
Frolov, F. Ya. 1114, 1121, 1122, 2539  
Frolov, I. A. 3591  
Frolov, I. I. 1893, 2630  
Frolov, V. I. 3091  
Frolunda, V. 102  
Frommhold, M. 1065, 2993  
Frostling, H. 5044  
Frühaufová, L. 667, 979, 3744  
Früge, J. M. 1109  
Fruton, J. S. 3743  
Frydman, B. 193  
Frydman, R. B. 193  
Fryer, P. A. 4325  
Frykland, L. 1316  
Fu, P. C. 5314  
Fu, S.-C. J. 1151  
Fuchiwaki, Y. 94  
Fuchs, S. 4179  
Fudano, S. 804, 2203, 3203  
Fuentes, J. C. 3854  
Fuerstenau, D. W. 4544  
Fuh, T. J. 1527  
Fuhr, J. E. 3168  
Fuji, A. 1524  
Fujihara, Y. 2106  
Fujihira, E. 869  
Fujihira, Y. 1663  
Fujii, K. 4241  
Fujii, S. 2108, 3459  
Fujii, T. 437  
Fujikawa, K. 4005  
Fujimaki, M. 3889  
Fujimoto, D. 403, 681  
Fujimoto, K. 4384  
Fujimura, K. 1390, 3683, 4703  
Fujisawa, H. 4808  
Fujisawa, K. I. 1526  
Fujita, M. 81, 1663, 2106  
Fujita, T. 108, 4305, 5359  
Fujitani, H. 3452  
Fujiwara, K. 3447

Fukatsu, S. 5371  
 Fukin, K. K. 3591  
 Fukuda, M. 1963, 2407  
 Fukui, S. 759, 760  
 Fukukawa, K. 747  
 Fukumoto, M. 4874  
 Fukushima, K. 4016  
 Fulea, C. 3925, 4397  
 Fuller, N. A. 5242  
 Fullmer, C. S. 2967  
 Funasaka, W. 1390, 3683, 4703  
 Funnell, N. A. 3068  
 Furberg, C. 2414  
 Furlan, M. 1604  
 Furmanec, D. 5092  
 Furth, J. J. 3515, 3732  
 Furthmayr, H. 2043  
 Furukawa, K. 148, 444  
 Furuno, J. 343  
 Furusawa, M. 2651  
 Furuta, Y. 2860  
 Fusari, S. A. 4390  
 Futterman, S. 2169, 5360  
 Fyfe, J. A. 2118  
 Fyffe, W. E. 5414

## G

Gaal, A. 720, 1025  
 Gaal, J. 2181, 3777  
 Gaalimszhanova, S. G. 4421  
 Gabriel, O. 3321  
 Gabriel, T. F. 2130, 4244  
 Gadel-Rub, L. N. 1547  
 Gaede, D. 1149  
 Gaede, K. 2157  
 Gafford, L. G. 994  
 Gahmberg, C. G. 3520  
 Gahner, E. 4744  
 Gaibakyan, D. S. 1561, 2252  
 Gaile, A. A. 41, 42, 563  
 Gajzler, L. 4867  
 Gal, F. 307, 878  
 Galakhov, V. S. 3087  
 Galanakis, D. K. 4508  
 Galashina, M. L. 2538  
 Galbraith, L. 4803  
 Galecka, H. 5362  
 Galeffi, C. 4767, 4768  
 Galkin, L. I. 2539  
 Gallegos, E. J. 2551, 4589  
 Gallop, P. M. 686, 987  
 Gallot, Z. 1872  
 Gallo-Torres, H. E. 2747  
 Gal'pern, G. D. 5095  
 Gamayunov, N. I. 1067

Gamble, M. 3968  
 Gamo, T. 5006  
 Gander, E. 779, 1057  
 Gander, E. S. 782, 1343, 1701, 4061  
 Gandhe, B. R. 5065  
 Gandolfi, O. 4719  
 Ganea, E. 5331  
 Ganguli, N. C. 1317, 1641  
 Ganiev, Kh. G. 4806  
 Ganno, S. 668, 2010  
 Gantt, R. 2131  
 Ganzerli-Valentini, M. T. 1391, 4795  
 Gapparov, M. M. 3145, 4362  
 Garamvölgyi, E. 535  
 Garber, N. 112  
 Garber, Yu. N. 528  
 Garbuzov, V. G. 3093  
 Gardner, B. 430  
 Gardner, E. 2638  
 Gardner, F. H. 3437  
 Gardner, S. A. 4250  
 Gardner, T. L. 189  
 Garel, J. P. 1330, 4247  
 Garfinkel, A. S. 179  
 Garibian, G. S. 3515  
 Garibyan, G. Kh. 4940  
 Garlick, R. L. 5188, 5443  
 Garner, C. S. 1398  
 Garner, C. W. 2068, 2931  
 Garnetskii, V. A. 4687  
 Garnot, P. 180  
 Garreau, H. 3196  
 Garrett, C. T. 1053  
 Garrett, N. E. 707  
 Garrick, M. D. 2996  
 Garte, L. 4865  
 Gartzke, J. 2286  
 Garvey, M. J. 2174  
 Gasic, O. 3913  
 Gaspar, Th. 3967  
 Gasparič, J. 4293  
 Gasparini, G. M. 1179  
 Gasparini, U. 4540  
 Gates, B. J. 2472  
 Gateva, A. B. 1536  
 Gattner, H.-G. 1296  
 Gault, M. H. 1237  
 Gavin, III, J. R. 157  
 Gavrichev, V. S. 3558, 5040  
 Gavrilina, L. Ya. 3023, 3111, 4587  
 Gavriljuk, I. P. 2944  
 Gavrilova, G. V. 910  
 Gavrilova, N. A. 4464  
 Gawdzik, J. 1756, 2533  
 Gaylor, J. L. 2682  
 Gazzani, G. 306  
 Gazzaniga, A. 636

- Gearhart, H. L. 1772  
Gearien, J. E. 4645  
Geer, R. D. 2557  
Gegele, V. G. 4838  
Gehrke, C. W. 5165  
Geiger, R. 4742  
Geike, F. 2337, 4420  
Geisenheiner, A. 550  
Geisler, R. W. 3969  
Geiss, F. 2253  
Geissler, H. E. 5327  
Gelbičová, J. 4650  
Gelbin, D. 568  
Gelbke, H. P. 2659, 2732  
Gelman, N. S. 1616, 1722  
Gelshtein, R. M. 2537  
Genda, H. 4826  
Genest, J. 4301  
Gengozian, N. 3168  
Genkin, A. D. 5265  
Genkina, G. L. 3893  
Gentile, F. 4317  
George, C. B. 716  
Georgieva, A. 3151  
Georgievskii, V. P. 3894, 4840  
Georgopoulos, D. 298, 1281  
Gerashchenko, O. A. 1067  
Gercken, G. 4605  
Gerday, C. 155, 401  
Gerdell, S. 4721  
Gerdes, R. G. 5149, 5402  
Gere, D. R. 3556  
Gerhardt, K. O. 1100, 1822  
Gerlach, H. 2998  
Geroch, M. E. 507, 1056, 3462  
Gerrard, D. L. 3537  
Gerritse, R. G. 531  
Gershey, E. L. 5174, 5403  
Gershon, S. 952  
Gersonde, K. 4468  
Gerstbrein, H. L. 2765, 5056  
Gerstmeyer, A. 1489  
Gertler, A. 1659, 1930  
Geserick, M. 3108  
Gessner, T. 3248  
Gestetner, B. 1498  
Getmanskii, M. D. 1764  
Getz, M. J. 3184  
Ghabrial, S. A. 2898  
Ghali, G. 4442  
Ghali, G. V. 311  
Ghangas, G. S. 3509  
Gheorghescu, B. 4357  
Gherardi, S. 4404  
Gholson, R. K. 1326  
Ghose, A. C. 2914  
Ghose Dastidar, N. 4914  
Ghosh, A. 3073  
Ghosh, D. 2842  
Ghosh, H. P. 1342  
Ghuysen, J. M. 4186  
Gianetto, R. 2110  
Giannovario, J. A. 5054  
Gibb, B. 4449  
Gibbons, G. F. 2819, 3377  
Gibbs, B. F. 1788  
Gibson, N. C. C. 69  
Giebel, W. 996  
Gil-Av, E. 1778, 1955, 2792  
Gilbert, E. F. 4025  
Gilbert, J. 4582  
Gilbert, J. C. 2155  
Gilbert, J. D. 50, 1773  
Gilbert, J. M. 502  
Gilbert, M. T. 50  
Gilbert, T. W. 3640  
Gilbertson, G. 4609  
Gilboa, E. 4047  
Gilboa-Garber, N. 112  
Gilck, H. 813  
Gilgan, M. W. 3220  
Gilham, P. T. 1331, 3831, 4310  
Gill, J. S. 2199, 4782  
Gill, S. 4938  
Gillespie, J. B. 1657  
Gillian, M. 2433  
Gilpin, R. K. 2519  
Gilroy, M. 1383  
Gilvert, L. I. 4006  
Ginodman, L. M. 1303, 4464  
Ginzburg, S. I. 5265  
Giorgio, A. J. 322, 761  
Giovanneti, S. 2664, 3249  
Giovanolli-Jakubczak, T. 245  
Giro, M. G. 1285  
Giry, L. 1827, 2595  
Girzhev, A. L. 3576  
Girzheva, G. D. 3576  
Gisbert-Calabuig, J. A. 425  
Gisiewicz, J. 2134  
Gitis, S. 3340  
Gitomer, W. 1938  
Giusti, G. V. 2779, 3434, 3716  
Gival, D. 1605  
Giziewicz, J. 2228  
Gjone, E. 4992  
Gladen, R. 82  
Gladenko, E. F. 4419  
Gladner, J. A. 3442  
Gladyshev, P. P. 1374, 1864  
Glagolicova, A. 1450  
Glaser, C. B. 3226  
Glasl, H. 4376, 5395  
Glass, A. 267

- Glaze, W. H. 4148  
 Glazer, A. N. 688, 991  
 Glemite, G. 1356, 4249  
 Glennard, N. F. 3030  
 Glew, R. H. 1717  
 Glick, B. 1660  
 Glick, M. C. 1964  
 Glimcher, M. J. 679  
 Glinsmann, W. H. 771  
 Glitz, D. G. 4705  
 Gloeckner, R. 4449  
 Glohlich, D. 2937  
 Glotova, V. L. 1039  
 Glueckauf, E. 5142  
 Glukhoded, I. S. 2803  
 Glunz, L. J. 2266  
 Glushkova, A. I. 223  
 Gnauck, G. 672, 3282  
 Goad, L. J. 4607  
 Gocan, S. 1500  
 Godbillon, G. 147  
 Godin, C. 4062  
 Godly, E. W. 1832  
 Goedert, M. 12, 13, 14, 1079, 1080, 1081  
 Goedken, M. P. 4028  
 Goerlitz, D. F. 621  
 Goetze, E. 1983  
 Goida, E. A. 2785  
 Golacka, J. 48  
 Golay, M. J. E. 1189, 1731  
 Gold, E. W. 3632  
 Goldaniga, G. C. 954  
 Goldblatt, L. A. 3074  
 Gol'denberg, M. Z. 3110  
 Gol'dfarb, Ya. L. 3096  
 Goldie, A. H. 2158  
 Goldknopf, I. L. 4226  
 Goldman, J. S. 2730  
 Goldmann, K. 2315  
 Goldner, S. 951  
 Goldsmith, E. A. 570  
 Goldstein, I. J. 5243  
 Goldstein, J. L. 3476  
 Goldstone, A. 3982, 4048  
 Golender, L. O. 3085  
 Golińska, B. 3722  
 Golkiewicz, W. 2272  
 Gololobova, T. A. 2283  
 Golovina, A. P. 3852  
 Golovistikov, Yu. N. 3544, 5090  
 Golovnya, R. V. 3075, 3093, 4611  
 Golshmid, V. K. 223  
 Golubeva, L. K. 3601, 4655  
 Gomoryova, A. 1540  
 Gondek, R. J. 5054  
 Gonnerman, W. A. 5150, 5452  
 Gonnet, J. F. 3255  
 Gonzales, L. W. 2981  
 Gonzales Hernandez, L. 2895  
 Gonzalez Gonzalez, A. 3210  
 Gonzalez-Mujica, F. 4469  
 Goodbread, J. P. 3540  
 Gooding, R. H. 622  
 Goodley, P. C. 1784  
 Goodwin, G. H. 2064  
 Goos, S. M. 674  
 Gordadze, G. N. 5095  
 Gorden, P. 157  
 Gordini, T. 121  
 Gordon, C. H. 620  
 Gordon, G. 4581  
 Gordon, G. G. 661  
 Gordon, J. W. 656  
 Gordon, M. 1784  
 Gorecki, M. 2647  
 Gorel, F. L. 4514  
 Gorelik, L. D. 5372  
 Gorlachev, G. F. 95  
 Gornall, A. G. 2087, 2672  
 Gorodetzky, Ch. W. 1514, 5390  
 Gorokhova, L. V. 415  
 Goryaev, M. I. 1374  
 Gosselin-Rey, C. 155, 401  
 Goswami, S. K. 4366  
 Goto, K. 3997  
 Goto, M. 1434, 2159  
 Gottlieb, A. A. 3736  
 Gotto, Jr., A. M. 2068, 2931, 3708  
 Gottschalk, G. 5011  
 Goudote, J. 4918  
 Gouezo, F. 899  
 Gough, T. A. 1148, 3013  
 Gould, H. J. 2943  
 Gould, R. G. 718  
 Gourdenne, A. 212  
 Gourdet, G. 951  
 Govindarajan, V. S. 3309  
 Govind Rao, M. K. 3595  
 Gozev, V. S. 4549  
 Grabczewska, E. 5025  
 Grabowski, Z. R. 1870  
 Grace, M. E. 955  
 Grachev, M. A. 2138  
 Gracy, R. W. 1047, 4051  
 Gradnik, B. 4814, 4930, 4931  
 Grady, L. T. 344  
 Gräsbeck, R. 1974  
 Graf, R. 4881  
 Graffeo, A. P. 3153  
 Graham, H. N. 3818  
 Graile, J. 3276  
 Grajnert, K. 395, 2997  
 Grandberg, I. I. 607, 608  
 Grandjean, C. 1950



- Granelli, I. 2569  
Granger, R. 1190  
Granström, E. 3596  
Grant, D. H. 3392  
Grant, D. W. 540, 1739  
Grant, W. F. 4294  
Gras, J. 2436, 2677  
Grasbeck, R. 2923  
Grasmuk, H. 4518  
Gratzer, W. B. 5479  
Gray, A. 426  
Gray, A. J. 5000  
Gray, G. W. 3883  
Gray, W. R. 133  
Grazter, W. G. 1632  
Grealls de Kempny, R. S. 4436  
Grebner, E. E. 3489  
Grebbe, Ch. 3310  
Greco, M. 1718  
Greeley, R. H. 5081  
Green, H. O. 1613  
Green, K. 3596  
Green, R. W. 5238, 5482  
Green, V. E. 3611  
Greenaway, P. J. 1697  
Greenberg, E. 5205  
Greenhalgh, R. 623, 1736  
Greenwood, N. D. 5114  
Greer, D. G. 362  
Greer, M. 4647  
Grefrath, S. P. 3427  
Gregor, V. 4625  
Gregoriadis, G. 1965  
Gregorowicz, Z. 335  
Gregory, C. M. 446, 703, 1009, 2736  
Greither, O. 5290  
Grén, K. 1251  
Gressin, J. C. 2541  
Greuter, H. 3868  
Grey, S. M. 740  
Griep, J. A. 2496, 2953  
Grierson, D. 1679  
Grieser, M. D. 3663  
Griffin, G. W. 3120  
Griffith, G. 1326  
Griffith, T. W. 4497  
Griffiths, N. M. 3575  
Grigor'eva, L. A. 1894  
Grikina, O. E. 3589  
Grimes, W. J. 1321  
Grimm, W. 4322  
Grimminger, H. 2645  
Grimová, J. 4804  
Grinev, A. N. 2572  
Gripas, E. I. 1779, 2523  
Grishchenko, V. M. 675  
Grisebach, H. 190, 497, 2094, 4529  
Grishchenko, O. M. 3535  
Grishina, K. V. 1384  
Grivnak, J. 46  
Grob, K. 2544, 3034  
Grob, R. L. 5054  
Grodzinska-Zachwieja, Z. 4720  
Gröndahl, N. J. 3160  
Groeningsson, K. 4266  
Grohlich, D. 2026  
Grohlich, O. 5442  
Grohmann, K. 1904, 2521, 3035  
Gromova, G. L. 3589  
Grondona, M. C. 3420  
Groningsson, K. 1276  
Gronow, M. 4470  
Gros, M. 1592  
Grosch, W. 4961  
Grose, J. H. 4301  
Gross, F. 4236, 4516  
Gross, J. 1309, 2061  
Grosse-Ruyken, H. 1401  
Grossklaus, R. 975  
Grossman, D. M. 4638  
Grossman, S. H. 3396, 3745  
Grossmann, A. 321  
Grossowicz, N. 163  
Groudinsky, O. 402, 1022  
Grouhmann, K. 1211  
Grove, J. 950  
Grover, P. L. 4194  
Grubb, A. 3435  
Gruber, M. 1294  
Gruber, V. B. 4651  
Gruber, W. 2385  
Gründing, Ch. A. 741  
Grujic-Vasic, J. 4437  
Gruła, E. A. 4997  
Grunberg, E. 5389  
Grushka, E. 3545, 3700, 5060  
Gruzinskaya, N. A. 922  
Gryaznov, V. A. 3063  
Gualario, V. M. 1795  
Guarriero-Bobyleva, V. 758  
Guberska, J. 1732  
Gubina, T. N. 5352  
Gudat, J. C. 164, 468  
Gudoshnikov, S. K. 1783  
Guenther, E. 4609  
Guenther, J. 366  
Guenzi, W. D. 3936  
Guérémy, C. 5394  
Guermouche, M.-H. 561  
Guern, J. 1428  
Guerra, M. C. 831  
Guerrini, A. M. 1686  
Guertler, O. 3803  
Guglya, V. G. 1174

- Guha, K. C. 1013  
 Guha, O. K. 2510  
 Guiard, B. 402, 1022  
 Guilford, H. 4666  
 Guillain, F. 4220  
 Guillaume, M. 2189, 2200  
 Guillemin, C. L. 2541  
 Guilot, J. 1749  
 Guinand, G. G. 3136  
 Guinn, G. 2132  
 Guiochon, G. 12-14, 1079-1081, 1222, 1844,  
 1921, 1953, 2513, 2573, 2608, 3041, 4562,  
 4690  
 Gundersen, H. J. G. 649  
 Gundlach, P. 2851  
 Gunther, F. A. 1162  
 Gunville, R. 3305  
 Gupta, J. P. 644  
 Gupta, M. S. 1737  
 Gupta, S. K. 1709, 4543  
 Gurevich, A. L. 2649  
 Gurley, L. R. 1004, 4014  
 Guseinov, F. T. 1303  
 Guseinov, M. M. 5077  
 Gusev, A. V. 5127  
 Gusey, A. I. 4481  
 Gushchin, B. N. 95  
 Guskova, L. I. 4882  
 Gussin, A. E. S. 655  
 Gustafsson, B. E. 3297  
 Gustafsson, J. Å. 2818, 3293, 3297, 3890  
 Gustavii, K. 4639  
 Gustine, G. L. 2408  
 Gut, J. 1589  
 Guthrie, R. 2996  
 Gutiérrez, J. 4967  
 Gutierrez, M. 3468  
 Gutteridge, S. 4177  
 Guttman, S. I. 1648  
 Guven, K. C. 1508, 1515, 4888, 4947  
 Guven, N. 1515, 4947  
 Guyot, A. 1749  
 Guyot-Hermann, A. M. 3362  
 Gverdtseteli, D. D. 611  
 Gvil'dis, V. Yu. 3264  
 Gvosdovich, T. N. 1740  
 Gyde, O. H. B. 2008  
 Gyéresi, Á. 2843, 3915  
 Gyimesi, J. 3041  
 Gyllenhaal, O. 75  
 Gzgyan, M. 2968
- H**
- Ha, Y. D. 3950  
 Haag, A. 3153  
 Haag, K. W. 2266  
 Haag-Berrurier, M. 4389  
 Haahiti, E. 3256  
 Haas, G. 3902  
 Habashy, G. M. 4889  
 Haber, E. 154, 454, 3909  
 Habermann, E. 4030  
 Habermann, K. H. 1476  
 Habib, M. S. 893  
 Habla, H. 842  
 Habuchi, H. 3215, 3415, 3675  
 Hack, F. 1119  
 Hackel, R. 2356  
 Hackert, M. L. 5147  
 Hackett, P. 3173  
 Haderka, S. 1200  
 Hadley, K. 4445  
 Hadorn, H. 796  
 Hadváry, P. 4026  
 Hadžija, O. 4983  
 Haegeman, G. 1672  
 Hänsel, R. 4841  
 Häusler, H. 2582, 2583  
 Hafeez, M. A. 4461  
 Hafez, M. B. 2201, 2716  
 Hagel, R. 1846, 2244  
 Hagen, A. 2385  
 Haglund, H. 4950  
 Hahlbrock, K. 194  
 Haight, Jr., G. P. 1400  
 Haim, A. 1403  
 Haines, M. E. 5477  
 Haines, T. H. 3879  
 Haines, V. E. 4007  
 Hais, I. M. 4688  
 Hájek, B. 2829, 4278  
 Hakala, M. T. 4995  
 Haken, J. K. 633, 1092, 1163, 2518  
 Haklits, I. 645  
 Hakomori, S. 1981  
 Hakomori, S. I. 866, 3292, 3520  
 Hála, S. 3565  
 Halász, I. 565, 1093, 1225, 1885, 2609, 2628,  
 4071, 5135  
 Hald, B. 4331  
 Haldar, I. 2074  
 Hale, Jr., W. H. 1392  
 Hall, F. 1962  
 Hall, P. F. 3169, 3170  
 Hall, R. C. 1823, 3012  
 Hall, R. H. 1705, 2150  
 Haller, R. 2828  
 Haller, W. 1863, 3633  
 Hallgren, P. 3217  
 Hallinan, E. A. 280  
 Handa, S. 5307  
 Hanke, T. 5137, 5422

- Halone, M. H. 4432  
Halpaap, H. 1104, 1105  
Halperin, G. 3299  
Halpern, B. 4126  
Halver, J. E. 3442  
Hamada, F. 1698  
Hamada, M. 5364, 5368  
Hamaizu, Z. 2899  
Hamberg, U. 4471  
Hamberger, A. 404  
Hamdi, A. 379  
Hamelin, R. 1064  
Hamielec, A. E. 2170  
Hamill, R. L. 5260  
Hamilton, D. J. 5397  
Hamilton, R. J. 3610  
Hamilton, R. H. 3840, 3933  
Hamm, R. 5311  
Hammer, C. A. 1392  
Hammes, G. G. 2464  
Hammond, J. W. 3389  
Hammouda, F. M. 1238, 2348  
Hampaii, A. 2011  
Hampel, A. 3390  
Hampton, A. 2225, 2226, 3229, 3230  
Han, K. 4809  
Hana, K. 1200  
Hanada, E. 4199  
Hanahan, D. J. 142, 432, 4003, 4999  
Hanai, T. 1390, 4703  
Hance, R. J. 628  
Hancock, A. J. 2799, 2800  
Hancock, R. G. V. 3436, 5223  
Handa, A. C. 1562  
Haniu, M. 2044, 3712  
Hanna, M. A. 311, 4442  
Hanna, N. 4062  
Hannan, E. J. 1809  
Hannestad, U. 4963  
Hannig, K. 2379  
Hanoune, J. 3494  
Hansen, H.-J. 2770, 3868  
Hansen, R. J. 3969  
Hanson, A. N. 3680  
Hanson, H. 741, 1668  
Hansson, U. B. 2952  
Hansson, V. 2817, 5315  
Hantke, K. 2833  
Hao, Y.-L. 3416  
Hara, N. 357  
Hara, Y. 1663, 2106  
Harada, F. 818, 5345  
Harada, M. 5197, 5453  
Harada, S. 4406  
Harb, N. 4461  
Harbers, E. 5027  
Hardegger, E. 2782, 2783  
Hardesty, B. 766, 788  
Hardin, N. F. 1470  
Harding, G. B. 2958  
Hardy, M. J. 4944  
Harell, A. 3958  
Harewood, K. 3513  
Harewood, K. R. 1680  
Hári, J. 558  
Harik, S. I. 1277  
Haritos, A. A. 2447  
Harkiss, K. J. 4652, 4988  
Harkness, A. M. 3611  
Harlan, H. D. 5279  
Harley, E. A. 1692  
Harmon, C. A. 1360  
Harms, K. 3907  
Haroun, B. M. 5261  
Harpaz, N. 4706, 4848  
Harper, P. J. 2225, 3229  
Harplani, S. P. 5375  
Harren, H. 1191, 3635  
Harris, A. B. 5240  
Harris, B. 5475  
Harris, B. G. 1047  
Harris, E. D. 5150, 5452  
Harris, E. H. 1305  
Harris, K. R. 5052  
Harris, L. E. 5099  
Harris, R. G. 1931  
Harris, S. C. 1214  
Harris, T. M. 4328  
Harris, W. E. 541, 3533, 3629, 4099  
Harrison, Jr., S. D. 2786  
Harsch, M. 438  
Harshman, S. 2924, 2949  
Hart, D. W. 3492, 3746  
Hartiala, K. 1249, 1588  
Hartigan, M. J. 4091  
Hartman, C. P. 2751  
Hartman, M. 185  
Hartmann, C. H. 1830  
Hartmann, U. 5324  
Hartvig, P. 1276, 3088, 4266  
Harun, F. 4291  
Harvan, D. 638  
Harvey, C. L. 2227, 4244  
Harvey, D. J. 1153  
Harvey, Jr., J. 3934  
Harvey, M. J. 4182, 4183  
Harzer, V. 2669  
Hasegawa, M. 5067  
Hashim, G. A. 697, 698, 983, 1005, 1006  
Hashimoto, I. 5086  
Hashimoto, J. 726  
Hashimoto, K. 1824, 1826, 2331  
Hashimoto, S. 787, 4875  
Hashimoto, T. 2621, 3202, 4792

- Hashizume, T. 734  
Hasimito, T. 4689  
Hasin, M. 462  
Hasitz, M. 4503  
Haslewood, G. A. D. 1490  
Haspel-Horvatovic, E. 3246  
Hass, L. F. 5204, 5456  
Hasselbach, W. 5340  
Hastings, C. R. 4565, 4578  
Hasty, M. A. 3476  
Hasty, R. A. 559  
Hasuike, J. K. 1409  
Hata, R. 1580, 1636  
Hatanaka, C. 1966  
Hatano, H. 477, 1873, 2655, 4197  
Hatano, K. 4406  
Hatch, F. T. 2416  
Hatch, M. D. 767, 1031, 1050  
Hatfield, G. W. 2476  
Hattman, E. A. 4590  
Hatton, M. W. C. 2479, 3634  
Hattori, H. 148, 444  
Haufe, W. O. 623  
Haugen, H. N. 2817, 5315  
Haugland, R. 243  
Haul, R. 4105  
Haupt, H. 4520  
Hauser, G. 3280, 4805  
Hauser, H. 5170  
Haustein, D. 5431  
Hauth, H. 5354  
Hauton, J. 4729  
Haverkamp, J. 250  
Havez, R. 2390, 3413, 3674  
Havlicek, J. 1967  
Hawk, I. A. 4210  
Hawker, J. S. 5205  
Hawley, S. A. 3490  
Haworth, D. T. 5332  
Hawthorne, J. N. 3140  
Hawthorne, M. F. 4771  
Hayano, S. 3078, 3079  
Hayase, K. 2915  
Hayashi, H. 4178  
Hayashi, K. 4952  
Hayashi, M. 2100  
Hayashi, R. 3973, 4222  
Hayashi, S. 5262, 5429  
Hayashi, T. 3199  
Hayatsu, H. 1430, 3836  
Hayem, A. 2390  
Hayes, D. H. 4458  
Hayes, F. N. 4311  
Hayes, L. J. 830  
Hayes, S. J. 774  
Hayes, W. P. 2341  
Hayman, M. J. 1244  
Hayry, P. 2503  
Hays, J. B. 2688, 2691  
Hays, S. E. 344  
Haywood, A. M. 2990  
Hazelhof, E. 4349  
Hazlett, R. N. 4122  
Háznagy, A. 1557  
Heacock, R. A. 609, 791, 2151, 4435  
Head, S. W. 4910  
Healy, M. J. R. 4585  
Hearing, E. 368  
Hearing, V. J. 4053  
Heath, E. C. 3139, 5242  
Heathcote, J. G. 299, 1282  
Hecht, F. 2197, 4151  
Hechter, O. 5344  
Hechtman, P. 2092  
Heck, L. J. 5332  
Hector, D. A. 5347  
Hediger, H. 4127  
Hedinger, A. 321  
Hedler, L. 3900  
Heer, B. 5195, 5401  
Heftmann, E. 1845  
Hegedus-Volgyesi, E. 2480  
Hegenbarth, W. 569  
Heggie, D. T. 5123  
Hegstrand, L. R. 3723  
Heifetz, A. 2366  
Heigener, H. 1436, 3250  
Heilmann, W. 4038  
Heimer, E. P. 2216  
Heimbürger, N. 1014  
Heinegard, D. 4721  
Heinrich, W. 270  
Heinz, E. 3279, 5306  
Heitz, W. 1917, 2610  
Hejl, V. 3965  
Helger, R. 4447  
Helgeson, R. C. 2009  
Helia, O. 3364  
Heller, E. 3491  
Heller, R. A. 718  
Heller, W. 1798  
Hellerqvist, C.-G. 55  
Hellström, K. 3890  
Helme, J. P. 4260  
Helmchen, G. 3902  
Hem, S. L. 2863  
Hemminki, K. 429, 1638, 5220, 5478  
Hempel, G. 4895  
Henderickx, H. K. 2003  
Henderson, D. E. 1154  
Henderson, IV, J. E. 4148  
Henderson, J. J. 3885  
Henderson, K. O. 2471  
Hendrick, D. 5179

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Hengstmann, J. H. 4640  
Henke, G. 2894  
Henly, R. S. 542  
Henn, F. A. 404  
Hennecke, H. 5137, 5422  
Hennen, G. 3992, 3993  
Henning, R. 4354  
Henning, U. 988, 4063  
Henrion-Boeckstijns, A. 5369  
Henry, R. 5163, 5413  
Henry, R. A. 1911, 2133  
Hensley, W. J. 2412  
Hensten-Pettersen, A. 5408  
Hentzen, D. 4247  
Henze, M. 318  
Herain, J. 3055  
Herbert, B. N. 2943  
Herbert, E. 2046  
Herbert, P. N. 2417, 2680  
Herbrink, P. 5007  
Herd, J. K. 1661  
Heremans, J. F. 134, 406, 3418  
Hermelo, M. P. 5254  
Hernowo 4939  
Herod, J. 4760  
Herout, V. 662  
Herrick, H. E. 2307  
Herrmann, C. 2971  
Herrmann, E. C. 1429  
Herrmann, J. 1480  
Herrmann, K. 4347  
Hershey, H. V. 784  
Herwig, W. C. 4736  
Herzberg, M. 1701  
Hess, G. G. 1106  
Hess, U. 2448  
Hesse, Chr. 1895  
Hesse, G. 1846, 2244  
Hessel, B. 3160  
Hessle, H. 4713  
Hetherington, C. 5114  
Hetper, J. 551  
Heumann, S. 4753, 5017  
Heumann, W. R. 639  
Hever, A. 4194  
Hewish, D. R. 1059  
Hey, G. 569  
Heyde, E. 4039  
Heymann, E. 4754  
Heyndrickx, A. 351, 3356, 4446  
Heyns, K. 4849  
Heystek, J. 2675  
Hezel, U. 3863  
Hiatt, V. S. 3765  
Hicks, E. J. 2496, 2953  
Hidaka, J. 1396  
Hidskes, G. G. 4001  
Hiermann, A. 3951  
Higgins, C. E. 1393  
Higgins, T. N. 4099  
Hignite, C. 2787  
Hilborn, J. C. 388  
Hild, S. L. E. 3572  
Hileman, F. D. 1106  
Hilgard, S. 3699  
Hilgenfeldt, U. 984  
Hilgermann, R. 1628  
Hill, R. H. 2648, 3443  
Hill, R. L. 1247, 3429  
Hillen, L. W. 1155  
Hiller, K. 3307, 3308  
Hillmer, P. 5011  
Hils, J. 690  
Himmelspach, K. 4296  
Hinckley, J. O. N. 4951  
Hintze, U. 4605  
Hippe, E. 154, 454  
Hipps, P. P. 5208  
Hipsz, M. 4864  
Hira, R. 4834  
Hiranaka, P. K. 1499  
Hirano, K. 1826  
Hirata, F. 3278  
Hirata, M. 4541  
Hiratsuka, N. 4830, 5278  
Hiratsuka, T. 2737  
Hirayama, C. 1902, 2710  
Hirayama, H. 5156  
Hirayama, O. 3319  
Hirose, S. 869  
Hirota, K. 1538  
Hirsch, R. F. 3546  
Hirst, A. D. 2008  
Hirte, S. 807  
Hirwe, A. S. 330  
Hisada, T. 4303  
Hiscoe, A. 599  
Hites, R. A. 642, 4149  
Hixson, Jr., H. F. 137  
Hizukuri, S. 108  
Hjertén, S. 4168  
Hladík, J. 2658  
Hlucháň, E. 5241  
Ho, H. C. 478  
Ho, N. W. Y. 1331  
Hobbins, J. C. 656  
Hobbs, J. 4308  
Hoberecht, H. D. 4091  
Hoch, K. 1741  
Hoch, S. O'N. 2119, 2120  
Hochman, J. 1605  
Hochstein, L. I. 165  
Hochstrasser, K. 1014

- Hocman, G. 708, 2053, 2069, 3717  
Hodes, M. E. 1937  
Hodges, R. S. 680  
Hodgson, A. 3911  
Hodisan, T. 883, 1455, 1500, 1502  
Ho-Duc, N. 2175  
Höfman, D. 2555  
Höhn, B. 4063  
Hoehn, M. M. 5260  
Hoekstra, S. P. 1349, 1691  
Hölzl, J. 4865  
Hoenders, H. J. 466, 4473, 4749  
Hörmann, H. 4504  
Hörmann, W. D. 2515  
Hövermann, W. 1895, 1977  
Hoffman, D. B. 951  
Hoffman, J. 55  
Hoffman, J. L. 2701  
Hoffman, L. J. 352  
Hoffman, P. 4982  
Hoffmann, D. 3092  
Hoffmann, F. 977  
Hoffmann, K. 4510  
Hoffmann-Ostenhof, O. 4712  
Hofmann, E. 4038  
Hofmann, F. 2424  
Hofmann, K. 998, 1283  
Hofmann, U. 550  
Hoffsommer, J. C. 601  
Hofstee, B. H. J. 2640  
Hofstein, R. 5217, 5468  
Hojima, Y. 1606, 2916  
Hojnacki, J. L. 5308  
Hokkanen, T. 3256  
Holcomb, I. J. 4390  
Holder, G. 2823  
Hollan, S. R. 4503, 4743  
Holland, J. C. 2461  
Holland, Jr., J. W. 4463  
Holland, M. J. 2393, 2683, 3477, 3734  
Hollander, C. S. 5201  
Hollenberg, M. D. 4175  
Holler, R. E. 5137, 5422  
Hollis, O. L. 1750, 1896  
Holloman, L. 3687  
Hollows, M. E. 4183  
Holman, C. M. 5346  
Holman, M. 4244  
Holmberg, H. 3453  
Holmes, D. C. 2482  
Holmes, E. W. 3735  
Holmes, R. K. 2917  
Holmes, R. S. 2470, 5012  
Holmgren, A. 1941  
Holmstedt, B. 537  
Holmstrom, A. 4259  
Holoday, C. E. 3135  
Holoubek, V. 3452, 3516  
Holsen, H. 2820  
Holt, R. F. 2704, 4775  
Holtzman, N. A. 374  
Holubek, J. 3774, 3800  
Holwerda, D. A. 2204  
Holý, A. 1674, 2743, 4054  
Holzapfel, H. 3803  
Hommel, D. 4916  
Honda, K. 3132  
Hong, S.-C. L. 3761  
Honigmann, G. 3282  
Honju, T. 4783  
Honna, S. 943  
Hood, L. E. 2973, 4060  
Hoodless, R. A. 1528, 2341, 2576, 4418  
Hoogen, H. 4302  
Hooper, J. A. 2029, 2030  
Hooper, S. N. 3007, 3008  
Hope, P. 4697  
Hoppel, Ch. L. 3904  
Hoppen, H.-O. 4302  
Hopping, M. E. 3242  
Hopwood, J. J. 4200  
Horáková, J. 4596  
Hořejší, V. 4707, 4953, 4981  
Horgen, P. A. 3003  
Hori, M. 4824  
Hori, S. 4808  
Hori, Sh. 4808  
Horickova, B. 3246  
Horii, A. 1137  
Horio, T. 4241  
Horiuchi, K. 403, 681, 1698  
Horiuchi, Y. 3824  
Horn, A. 384  
Horner, J. 4627  
Horney, D. L. 286  
Hornig, D. 2747  
Horning, E. C. 596, 1139, 5082  
Horning, M. G. 1146, 1153  
Horowitz, M. I. 1264, 1486  
Horská, K. 4525  
Horvath, C. 4701, 4800  
Horwitz, E. P. 221  
Hoser, W. 66  
Hoshi, M. 2787, 3277  
Hoshino, J. 3501, 3757  
Hoshino, M. 5426  
Hosokawa, K. 3454  
Hosseinian, A. 4207, 4731  
Hoste, J. 1250  
Hostettmann, K. 4842, 5287  
Hotani, H. 4498  
Hotta, S. 4764  
Hotz, R. D. 3048  
Hou, C. 4491

- Hougen, F. W. 4213  
 Houser, P. A. 5322  
 Houslay, M. D. 4034  
 Housley, T. 686, 987  
 Houston, L. L. 3506  
 Hovorková, N. 663  
 Howard, G. A. 512, 3451  
 Howard, J. W. 1997  
 Howery, D. G. 843, 1089, 1875  
 Howgate, P. 3229  
 Howlett, H. S. C. 5258  
 Howorth, P. J. N. 2008  
 Howsam, S. G. 1768  
 Hoyano, Y. 1505  
 Hrabák, A. 2276  
 Hradil, J. 1107, 4631  
 Hřebabeký, H. 3764, 5218  
 Hrivňák, J. 57, 578  
 Hrosch, W. 3536  
 Hrubá, A. 3813  
 Hrubantová, M. 3774  
 Hrusovsky, M. 2815  
 Hsieh, A. 3142  
 Hsieh, D. P. H. 4332  
 Hsieh, T.-H. 4945  
 Hsu, A.-F. 3139  
 Hsu, D.-S. 4982  
 Hsu, J. M. 1310  
 Huang, H. H. 3475  
 Huang, J. W. 1625  
 Huang, W. T. 341  
 Hubálková, O. 3658  
 Huber, G. A. 1108  
 Huber, J. F. K. 531, 1191, 1918, 2182, 2611, 2620, 3635, 4073  
 Huber, R. E. 3875  
 Hubert, B. 2434  
 Hubert, P. 888  
 Hubmann, F. H. 3283  
 Hubner, F. N. 3546  
 Huck, H. 870, 2293  
 Hudock, G. A. 495  
 Hudock, M. O. 2077  
 Hudry-Clergeon, G. 2965  
 Hudson, B. G. 4740  
 Hudson, D. R. 1911  
 Hudson, E. N. 3926  
 Hudson, H. R. 570  
 Hudson, R. A. 2564  
 Huettemann, R. E. 5316  
 Huffman, R. 3602  
 Hughes, C. 3982  
 Hughes, D. W. 328, 2864, 4415  
 Hughes, R. D. 3845, 3846, 5158  
 Hughes-Jones, N. C. 430  
 Hugli, T. E. 2101  
 Hugon, J. 220  
 Huisman, T. H. J. 5187  
 Humayun, M. Z. 5151  
 Humbel, R. 292, 3370, 5299  
 Hume, D. N. 4146  
 Humphrey, A. M. 3030  
 Humphries, S. 5348  
 Hums, N. 4727  
 Hung, A. 1146  
 Hunneman, D. H. 45  
 Hunt, S. 5192  
 Hunter, K. R. 67  
 Hunter, W. H. 3952  
 Hupková, V. 1426, 2670  
 Hurst, A. 4462  
 Hurst, R. 863  
 Hurst, R. O. 4040  
 Hurtubise, R. J. 2254  
 Hurwitz, J. 3741  
 Hurwitz, S. 5446  
 Huser, H. 1581, 1968, 4342  
 Huss, M. 914  
 Hussein, F. T. 1547  
 Hussein, M. M. 805  
 Husson, H. P. 2846  
 Huszár, E. 799  
 Huttunen, P. 3453  
 Hutzinger, O. 275, 329, 632, 2270  
 Hwang, F. 697, 1005  
 Hyayshi, H. 653  
 Hyer, H. J. 1365  
 Hyslop, N. St. G. 966
- I**
- Iammarino, R. M. 4991  
 Ibarra Rueda, L. 2895  
 Ibragimov, A. P. 778  
 Ibragimova, A. Z. 3271  
 Ibragimova, F. Sh. 4101  
 Ichim, A. 4424  
 Ichishita, H. 522  
 Ickowicz, R. 4013  
 Idu, S. M. 967  
 Igarashi, S. 3447  
 Igarashi, Y. 1673  
 Igic, R. 3380, 3751  
 Iglauer, N. 5103  
 Iglesias Angles, J. M. 3881  
 Iglewski, S. 45, 597, 598  
 Ignat'eva, E. V. 2560  
 Iida, S. 484, 1430, 4187, 5211, 5471  
 Iida, T. A. 3132  
 Iida, Y. 1934  
 Iinuma, K. 4407, 5368  
 Ikeda, I. 4407  
 Ikeda, K. 754, 3808

- Ikeda, S. 759  
Ikeda, Y. 1137  
Ikehara, M. 3233  
Ikekawa, N. 1143, 1144  
Ikemura, T. 2483, 2484  
Ikenaka, T. 747  
Ikramov, L. 4421  
Ilie, V. 2728  
Ilinov, P. 3284  
Illnait, J. 5254  
Ilomets, T. 2453  
Il'yasova, Kh. T. 3920  
Imahori, K. 471, 724  
Imai, T. 742  
Imamura, T. 1673  
Imaoka, N. 2220, 2935, 3154  
Imoto, T. 1897  
Inaba, I. 2183  
Inaba, T. 2178, 5112  
Inagaki, H. 2343, 2875  
Inagami, T. 296, 3651  
Inano, H. 5196  
Inchin, P. A. 3524  
Inczedy, J. 2181, 3777, 4157  
Indubala, S. 1394  
Ingild, A. 2951  
Ingle, J. 2485  
Ingle, P. H. B. 610  
Ingles, C. J. 3478  
Inglis, A. S. 297, 3090, 3311, 5337  
Ingram, V. M. 2443  
Inkin, A. A. 517, 2231  
Inman, F. P. 2399  
Innanen, V. T. 3636  
Inoko, A. 2707  
Inoue, Y. 776  
Inouye, H. 4179  
Inouye, S. 1525, 2167  
Instituto Llorente S. A. 2901  
Interschick, E. 4447  
Inturrisi, C. E. 1820  
Inwang, E. E. 2303  
Iqbal, M. 4566  
Irace, G. 3446  
Ireland, J. T. 3905  
Irie, M. 5255  
Irvine, D. M. 1109  
Irving, R. 3971, 4230  
Isagulyants, V. I. 3091  
Isakov, V. P. 15  
Isedilina, A. L. 5069  
Isemura, M. 3216  
Isemura, S. 2656  
Isenhour, T. L. 532, 1733  
Ish-Horowitz, D. 3323, 3514  
Ishibashi, M. 1144  
Ishibashi, S. 476  
Ishida, A. 522  
Ishida, Y. 208, 1220  
Ishigami, S. 5429  
Ishiguro, M. 2656  
Ishiguro, S. 2177  
Ishihara, K. 3676, 5160  
Ishihara, N. 5138, 5465  
Ishii, D. 44, 4575, 5050, 5131  
Ishii, Y. 915  
Ishikawa, S. 159, 459  
Ishikawa, T. 4826  
Ishimoto, M. 1650  
Ishitani, K. 3978, 4017, 4228  
Ishitoya, Y. 5086  
Ishizuka, J. 5307  
Ismail, S. A. 1547  
Isobe, M. 4757  
Isoda, S. 4830, 5278  
Isoi, K. 1137  
Ispolatovskaya, M. V. 2278  
Israel, M. 852  
Issa, H. A. 727, 1032  
Itakura, K. 2840  
Iten, P. X. 2854  
Itiaba, K. 1788  
Ito, A. 2114, 4971  
Ito, E. 653, 817, 3231, 4052, 4240  
Ito, K. 768, 1033, 5050, 5131  
Ito, T. 3285, 4029  
Ito, Y. 107, 1919  
Itoh, M. 4350, 4410  
Itoh, T. 58, 3084  
Itokawa, H. 3862  
Ittig, M. 1162  
Ivan, G. 4379  
Ivanetich, K. M. 3885  
Ivanov, A. V. 3340  
Ivanov, Ch. P. 3927, 5298  
Ivanova, G. B. 3353, 3354  
Ivanova, N. M. 4862  
Ivanova, N. T. 3098  
Ivany, J. W. G. 2216  
Ivashchenko, V. A. 2524, 2535  
Ivie, G. W. 1160, 1531  
Ivshin, V. L. 431  
Iwabuchi, M. 420  
Iwai, K. 5018  
Iwai, S. 4541  
Iwanaga, S. 1933, 3160, 3439  
Iwanage, S. 4494  
Iwanagi, S. 2057  
Iwao, K. R. 3014, 4569  
Iwasaki, H. 1215  
Iwasaki, K. 1793  
Iwasaki, T. 709  
Iwase, H. 1791  
Iwashita, S. 2102



- Iwata, H. 3215, 3415, 3675  
 Iyengar, J. R. 61  
 Izmailov, V. D. 3065  
 Izuhara, M. 3202, 4792  
 Izumi, Y. 1361  
 Izumiya, N. 2022
- J**
- Jabbal, I. 2930  
 Jaccard-Thorndahl, S. 2780  
 Jack, D. B. 5115  
 Jack, G. W. 1338  
 Jacknowitz, A. 3248  
 Jackson, M. 2485  
 Jackson, Jr., M. T. 2505  
 Jackson, R. L. 2068, 2931, 3708  
 Jacob, M. 1699  
 Jacob, T. M. 5151  
 Jacobs, A. L. 4638  
 Jacobs, H. G. 2024, 3480  
 Jacobs-Lorena, M. 1015  
 Jacobson, A. 3408  
 Jacobson, E. B. 2913  
 Jacobson, G. R. 3428  
 Jacobson, R. A. 3479  
 Jacot-Guillarmod, A. 2771, 4842, 5287  
 Jacq, C. 4180  
 Jadrijević, V. 4654  
 Jaeger, J. 1450  
 Jaeggi, H. 3034  
 Jaenchen, D. E. 2305  
 Jaenicke, L. 1048, 2764  
 Jaenicke, R. 5137, 5422  
 Jänne, O. 4209  
 Jaffar, M. 3531  
 Jahnke, P. A. 4165  
 Jain, S. K. 2948  
 Jaiswal, D. K. 2757  
 Jakob, K. M. 1681  
 Jakoby, W. B. 2392, 3172  
 Jakovenko, V. A. 2944  
 James, E. 4040  
 James, P. M. 4160  
 James, S. P. 76  
 Jamieson, G. R. 3584  
 Jamieson, W. D. 632  
 Jan, Z. A. 4229  
 Janado, M. 1577, 3116  
 Janák, J. 1, 1073, 1127, 1161, 2506, 2510, 4074  
 Jandera, P. 4667, 4668  
 Jane, I. 2593  
 Janes, N. F. 916  
 Janik, A. 4586  
 Janik, B. 2882  
 Janin, C. 1749  
 Jankowska, W. 3347, 4903  
 Jannsen, S. 195  
 Janson, J.-C. 3398, 3747  
 Janssen, G. 1806, 3929  
 Jantzen, W. 434  
 Jarand, J. 2152  
 Jardy, A. 1192, 1847  
 Jarolím, V. 588  
 Jarrow, H. C. 1530  
 Jarý, J. 3668, 3670, 3686  
 Jatlow, P. 4448  
 Jatlow, P. I. 1552  
 Jauernig, D. 5361  
 Javitt, N. B. 2423  
 Jaworek, D. 1193, 2255  
 Jaworski, A. J. 3003  
 Jay, E. 3509  
 Jayaram, M. 4909  
 Jeanloz, R. W. 4402, 4403  
 Jedeikin, A. 717  
 Jeffaey, J. J. 2471  
 Jehlička, V. 4625  
 Jellum, E. 1171  
 Jenden, D. J. 4080, 5120  
 Jeník, M. 5241  
 Jenke, H.-S. 2145  
 Jenkins, R. H. 2889  
 Jennings, E. C. 122  
 Jensen, H. 4306  
 Jensen, L. C. 2416  
 Jercan, E. 3000  
 Jereczek, E. 127  
 Jesty, J. 2432  
 Ji, T. H. 1582  
 Jiang, N.-S. 1278  
 Jílek, J. O. 3800  
 Jimenez, M. H. 5274  
 Jimenez, S. 438  
 Jimenez-Marin, D. 2454  
 Jiminez, S. A. 999  
 Jindra, A. 3364, 4932  
 Jiroušová, J. 2658  
 Jirsa, M. 2154  
 Jo, J.-S. 5138, 5465  
 Job, J. C. 4251  
 Job, R. C. 4252  
 Joglekar, V. D. 841  
 Johansson, B. V. 964  
 Johansson, K. N.-G. 2016  
 Johansson, S. 5323  
 John, R. 5168  
 Johns, E. W. 1001, 2064  
 Johns, T. 1087  
 Johnson, A. H. 3417  
 Johnson, B. 3521, 3815  
 Johnson, D. A. 5460  
 Johnson, D. C. 4698

- Johnson, E. J. 4043, 4233  
 Johnson, E. M. 2665  
 Johnson, G. L. 4444  
 Johnson, G. W. 2855  
 Johnson, J. B. 317  
 Johnson, J. D. 181  
 Johnson, J. F. 1848, 2173, 2605  
 Johnson, L. E. 5365  
 Johnson, M. C. 1757  
 Johnson, R. E. 3900  
 Johnston, D. E. 1497  
 Johri, K. N. 1562  
 Joiner, R. L. 1532  
 Joklekar, V. D. 942  
 Jolivet, E. 4201  
 Jollès, J. 5415  
 Jolles, P. 141, 427, 5415  
 Jolliffe, G. H. 1353  
 Joneidi, M. 1523  
 Joner, P. E. 3648, 4049  
 Jones, A. S. 3911  
 Jones, C. E. 305  
 Jones, C. E. R. 4630  
 Jones, D. W. 1456  
 Jones, Jr., G. 5166  
 Jones, J. B. 4870  
 Jones, J. P. 3440  
 Jones, P. 4132  
 Jones, R. 4204, 4487  
 Jones, R. F. 1052  
 Jones, R. T. 4743  
 Jones, T. G. 4495  
 Jongeneel, J. 4046  
 Jonsson, J. 3814  
 Joonson, V. 90  
 Jordan, J. J. 2964  
 Jordan, P. M. 3178  
 Jori, A. 2590  
 Jork, H. 2256, 4831  
 Josefsson, L. 4756, 5020, 5023  
 Joshi, P. N. 5222  
 Joshi, R. K. 355  
 Joshi, V. K. 1317, 1641  
 Joska, J. 1271, 1272  
 Josse, M. 416  
 Jošt, K. 667, 979  
 Jouan, P. 2013  
 Joubert, F. J. 2063, 2969  
 Joullié, M. M. 1883  
 Jourdian, G. W. 3212, 3213, 3232, 3488, 3646, 5159, 5409  
 Jovanovic, V. 4320, 4545  
 Jovin, F. M. 1565, 1566, 1567  
 Joyce, P. 2463  
 Joyce, W. G. 2443  
 Joye, Jr., N. M. 59  
 Joynes, P. L. 96  
 Judah, J. D. 3968  
 Juhasz, P. 377  
 Juhos, E. Th. 968  
 Jukofsky, D. 1375, 1553, 5385, 5392  
 Julesz, J. 3300  
 Julian, B. 2131  
 Jung, Chan Y. 418  
 Jung, G. 397, 4032  
 Jung, L. 4916  
 Jung, U. 884  
 Junge, W. 4465, 4468, 4754, 5423  
 Junowicz, E. 3649  
 Jurand, I. 3187  
 Jurásek, L. 1607, 2031  
 Juřicová, M. 4665  
 Jurman-Gros, T. 1592  
 Jursik, F. 2829, 4278  
 Jusiak, L. 2744  
 Jusic, D. 4205  
 Just, I. 434  
 Just, M. 4030  
 Justice, J. B. 532  
 Juvet, Jr., R. S. 1175  
 Juvvik, P. 2869
- K**
- Kabasakalian, P. 3344  
 Kabasawa, Y. 5231  
 Kachmarchik, E. V. 4505  
 Kacsalova, L. 2258  
 Kaczorowski, G. J. 2274  
 Kádár, K. 645  
 Kadenbach, B. 4026  
 Kadlec, V. 2190  
 Kadono, T. 268, 832, 1457, 1458, 2263, 2264, 2265, 3259, 3864, 3865  
 Kadyrova, F. R. 3367  
 Kaefenstein, H. 4934  
 Kaeger, B. L. 1125  
 Kaemmerrer, H. 1366  
 Kaeser, H. 2361  
 Kafatos, F. C. 2099, 2980  
 Kaferstein, H. 5388  
 Kagan, H. 5433  
 Kageyama, M. 460  
 Kahl, W. 4720  
 Kahn, A. 4750, 5013  
 Kahn, H. L. 2612  
 Kai, Y. 3858  
 Kaido, T. 1909, 1918  
 Kaiko, R. F. 1820  
 Kaiser, R. E. 5033  
 Kaiser, U. J. 1978  
 Kaji, A. 3776  
 Kakáč, B. 3774, 3800, 4804

- Kakiyama, H. 3804  
Kaláb, P. 1202  
Kalac, J. 2905  
Kalashnikova, E. V. 49, 4554  
Kalász, H. 664  
Kalbitzer, S. 706, 990  
Kalckar, H. M. 3321  
Kale, N. R. 1973  
Kalinichev, A. I. 10, 4163, 5036  
Kalinin, V. N. 992  
Kalitvyanskaya, V. I. 857, 3898  
Kalliney, S. 3344  
Kallio, H. 5292  
Kallos, G. J. 4141  
Kalmakoff, J. 3185  
Kalmanovskii, V. I. 2630  
Kalmykova, R. G. 935, 3358  
Kalousek, F. 3405, 3760  
Kalpakian, A. M. 4572  
Kalsi, P. S. 4219  
Kalvoda, L. 1240  
Kamalizad, A. 1154  
Kamber, B. 2831  
Kamel, H. 4907  
Kamel, M. 2345  
Kamen, M. D. 149  
Kameníková, L. 4932  
Kamenskii, N. P. 1374  
Kamerling, J. P. 2888  
Kamide, K. 4428  
Kamiński, E. 31  
Kaminski, L. S. 3885  
Kaminski, M. 1720, 2210  
Kamiński, W. 4593  
Kamiyama, F. 2343, 2875  
Kamm, L. 4462  
Kammerl, E. 2350, 3946  
Kammermeier, H. 3850  
Kamp, H. H. 3461, 3724  
Kamwendo, F. 2058  
Kan, T. 343  
Kanabayashi, N. 3995, 4235  
Kanafarska-Mlotkowska, S. 3916  
Kanagalingam, K. 2391, 3179  
Kanai, T. 4430  
Kanamori, N. 4309, 4755  
Kananen, G. E. 3605, 3954  
Kancheeva, O. A. 30, 40  
Kanda, F. 420  
Kandel, M. 2672  
Kandel, S. I. 2672  
Kane, J. P. 1639  
Kaneko, H. 3285, 5252  
Kaneko, Y. 4410  
Kanetani, F. 202  
Kanfer, J. N. 3129  
Kanmuri, M. 1535  
Kanno, T. 4485  
Kantesaria, P. 4765  
Kantorová, E. 3364  
Kao, O. H. W. 445  
Kapadia, G. 373, 374  
Kapila, S. 1083, 1100, 4578, 4579  
Kaplan, D. M. 239  
Kaplan, F. A. 1883  
Kaplan, I. 5174, 5403  
Kaplan, J.-C. 3494  
Kaplan, J. G. 2078, 2974  
Kaplan, L. A. 4041  
Kaplan, S. 1625  
Kaplín, Yu. P. 2525  
Kaplowitz, N. 2423  
Kapoor, I. P. 330  
Kappel, W. K. 5204, 5456  
Kappler, F. 3229  
Karakhanov, E. A. 2561  
Karakuziev, T. U. 778  
Karalova, Z. K. 4286  
Karasek, F. W. 83, 1373, 2242, 2613, 3062, 4669, 5045, 5055  
Karaseva, S. Ya. 3065  
Karasik, A. S. 4819  
Karavaev, N. M. 5285  
Karavaeva, V. G. 90  
Kareva, G. P. 3095  
Karger, B. L. 1947, 3153, 3559, 4800  
Karig, F. 845  
Karkas, J. D. 5214  
Karkocha, I. 876  
Karlander, S.-G. 3286  
Karlhuber, B. 2515  
Karlsson, J.-O. 404  
Karlsson, K. 4125  
Karlsson, K.-A. 1261, 1482, 2801, 3286, 4857  
Karmelic, J. 852  
Karmiński, W. 3339  
Karn, R. C. 495  
Karnishin, A. A. 3614  
Karol, P. J. 1395, 5232  
Karpovich, A. F. 3852  
Karska, B. 5259  
Kartnig, Th. 2885  
Karush, F. 2914  
Kasai, T. 2671, 4214  
Kasarda, D. D. 2947  
Kashiwa, T. 928, 4776  
Kašpar, K. 4632  
Kasparova, Z. 378  
Kasper, C. B. 696, 1012  
Kasperczyk, K. 4867  
Kassab, R. 5180, 5425  
Kataeva, S. E. 281, 3874  
Katagi, T. 1137  
Katagiri, M. 5424

- Katagiri, N. 2840  
 Katagiri, T. 4010, 5434  
 Katakura, E. 1535  
 Kataoka, K. 4808  
 Kataoka, T. 119  
 Katashin, I. S. 2630  
 Katayama, K. 4305  
 Katayama, Y. 148, 444  
 Kates, M. 2342, 2799, 2800, 2802, 2808, 3190, 4300  
 Kato, H. 1824  
 Kato, I. 4155  
 Kato, K. 2114, 2217  
 Kato, T. 4187  
 Kato, Y. 2621, 4689  
 Katona, L. 3161  
 Katsman, M. S. 405  
 Katsobashvili, Ya. R. 3571  
 Katsuki, H. 472  
 Katsura, I. 439  
 Katunuma, N. 470  
 Katz, E. 820, 2735, 2992, 3481, 3703  
 Katz, M. 2553, 3928  
 Katz, S. 1377, 1635  
 Kaufman, D. D. 877  
 Kaufman, S. 3469  
 Kaufman, S. J. 1703  
 Kaufmann, H. 2656  
 Kaulla, von, K. N. 658  
 Kaunitzi, H. 3900  
 Kavetskii, V. N. 918  
 Kavsan, V. M. 405  
 Kawabuchi, K. 3853  
 Kawade, Y. 4223, 4506  
 Kawaguchi, H. 1526, 4133  
 Kawaguchi, T. 1307, 1629, 1630  
 Kawai, K. 208, 1220, 1663, 2106  
 Kawai, S. 1824, 1826  
 Kawakita, M. 1602  
 Kawale, G. B. 841  
 Kawamura, Jr., A. 2168, 2872  
 Kawamura, J. 1183  
 Kawamura, M. 437  
 Kawanabe, K. 3258  
 Kawasaki, T. 1849, 1850, 1851, 1852, 1853  
 Kawasaki, Y. 4012  
 Kawata, I. 1051  
 Kawazu, K. 800, 2191, 3804  
 Kay, C. M. 410  
 Kaya, T. 743  
 Kayama, M. 3287  
 Kayden, H. J. 2856  
 Kaye, C. M. 3089  
 Kaye, J. S. 1634  
 Kayes, J. B. 2492  
 Kayukova, G. P. 3051  
 Kayukova, V. A. 2858  
 Kazachishcheva, M. S. 4816  
 Kazakov, E. I. 5285  
 Kazama, E. 1468  
 Kazame, E. 1362  
 Kazantsev, Yu. E. 584  
 Kazarinov, N. A. 1422, 3894  
 Kazarinova, N. F. 4868  
 Kazemie, M. 1003  
 Kazinik, E. M. 3091  
 Kaziro, Y. 1602  
 Kaznacheev, Yu. D. 5285  
 Kebl, F. 378  
 Keda, Yu. M. 1608, 2032  
 Keen, A. R. 652  
 Keenan, A. K. 4326  
 Keenan, R. W. 3687  
 Keenan, T. W. 4355  
 Kefurt, K. 3670  
 Kefurtová, Z. 3670  
 Keglević, D. 4983  
 Keipert, M. 3307  
 Keiser, L. S. 935  
 Kekwick, R. G. O. 5043, 5085  
 Keleti, T. 412  
 Kelker, H. 2614, 3099, 4106  
 Kelleher, P. C. 3656  
 Keller, H. 2374  
 Keller, H. E. 1947  
 Keller, P. J. 186, 490  
 Keller, R. A. 84, 256, 545, 552, 1088, 1194, 1854, 3539  
 Keller, S. J. 728  
 Keller, W. 2093, 2925  
 Kellett, M. 1504  
 Kelley, R. I. 3455  
 Kelley, W. N. 3735  
 Kelly, J. J. 2103  
 Kelly, R. W. 3612  
 Kelly, W. G. 1839  
 Kemeny, V. 3221  
 Kemp, R. G. 2469  
 Kemper, D. L. 5469  
 Kench, J. E. 717  
 Kendal, A. P. 2918  
 Kennedy, B. P. C. 1472, 4336  
 Kennedy, J. 5461  
 Kennel, S. J. 149  
 Kenny, J. C. 4279  
 Kenny, L. N. 4995  
 Keogh, B. J. 299, 1282  
 Kerényi, E. 597, 598  
 Keren-Zur, M. 1337  
 Kereztes-Nagy, S. 1314  
 Kerfoot, M. A. 4183  
 Kern, H. 2661  
 Kertesz-Saringer, M. 2269  
 Keshgegian, A. A. 3515

- Kessler, B. 4876  
Kessler, G. 2730  
Ketelaars, H. C. J. 5110  
Ketterer, B. 4965  
Ketting, D. 2888  
Kevei, J. 2870  
Keysell, G. R. 4194  
Kézdy, F. J. 745  
Khafizov, R. Kh. 4413  
Khagi, M. S. 1961  
Khairallah, E. A. 2304  
Khait, Yu. L. 11  
Khalifa, E. 4900  
Khalifa, S. 1160  
Khalimova, U. Kh. 205  
Khalsa, M. S. 330  
Khammash, G. 4921  
Khan, F. 1449  
Khan, M. A. 3531  
Khan, Z. H. 4229  
Kharisov, M. A. 2527  
Kharizanova, N. 3284  
Khar'kovskaya, Z. F. 3541  
Kharlamov, I. P. 4940  
Kharlamov, V. T. 517, 2994  
Kharlampovich, G. D. 3568  
Kharlomov, V. T. 2231  
Khasanov, V. G. 3059, 3063  
Kheifets, V. I. 63  
Kho, B. T. 1757  
Khodadadian, C. 4913  
Khoe, T. H. 3582  
Khokhlova, T. D. 1891  
Khomutov, R. M. 1034  
Khopkar, S. M. 1405  
Khorgami, M. H. 1463  
Khramov, V. A. 5462  
Khranovskaya, M. M. 1074  
Khrish, E. 5283  
Khrisokho, R. 859  
Khristich, A. I. 585  
Khubulava, G. K. 571  
Khudyakov, V. L. 1828, 5129  
Khusainova, R. A. 961  
Khvostikova, A. A. 2546  
Khwaja, T. A. 2135  
Kiba, T. 1378, 4268, 4783  
Kidani, Y. 2830  
Kido, R. 3237  
Kiely, M. E. 496  
Kiermeier, F. 5289  
Kierstan, M. P. J. 4167  
Kigoshi, S. 1262  
Kihara, H. 185  
Kiho, Y. 3454  
Kiley, M. P. 2918  
Kikuchi, K. 3759, 5138, 5465  
Kim, H. 3641  
Kim, Hong K. 1483  
Kim, J. I. 801  
Kim, K. S. 4186  
Kim, M. H. 4207, 4731  
Kim, S. N. 5037  
Kim, Y. J. 4521, 4523  
Kim, Y. S. 1243, 4984  
Kimaev, V. Z. 225  
Kimata, K. 809, 3214  
Kimes, B. W. 1719  
Kimura, T. 1791, 2044  
Kimura, Y. 1362, 1468, 1535  
Kindler, S. H. 5199  
King, C. J. 3560  
King, J. 3412, 3673  
King, J. W. 3559  
King, R. B. 5224  
King, R. H. 344  
King, R. W. 4591  
King, T. P. 4472  
King, Jr., W. H. 1877  
Kingdon, H. S. 2056  
Kinghorn, A. D. 4375  
Kinowski, A. J. 2660, 4208  
Kinsella, J. E. 3873  
Kinsky, S. C. 119  
Kinumaki, A. 5367  
Kiosseff, T. 5394  
Kirby, E. C. 873  
Kirch, E. R. 4645  
Kirchner, J. G. 257, 2245, 2257  
Kirchner, M. 2820  
Kirchoff, R. H. 379  
Kirichenko, E. A. 4092  
Kirkegaard, L. 4161  
Kirkegaard, L. H. 3205  
Kirkland, J. J. 1898, 2163, 2704, 3660, 4682, 4775  
Kirkpatrick, D. S. 2852  
Kirschke, H. 1668  
Kiselev, A. V. 37, 49, 579, 1740, 1771, 1828, 1891, 4554, 4572, 5129  
Kiseleva, L. I. 2794  
Kiseleva, N. S. 4121  
Kishi, T. 4406  
Kishida, S. 4303  
Kishimoto, F. 797  
Kishimoto, Y. 2787, 3277  
Kisiel, W. 142, 432, 4003, 4999  
Kisleva, A. G. 1246  
Kiso, Y. 1564  
Kiss, P. 880  
Kissinger, P. T. 2626  
Kistler, W. S. 3462  
Kit, S. 4041  
Kitaev, V. V. 2539

- Kitamura, H. 5126  
 Kitaoka, S. 3312  
 Kitchen, B. 156  
 Kitze, C. 228  
 Kiva, E. A. 5094  
 Kivic, P. A. 495  
 Kivirikko, K. I. 722, 1027  
 Kiyanovskii, A. M. 5038  
 Kiyohara, T. 709  
 Kizilova, L. I. 3023  
 Kjeldgaard, N. O. 1677  
 Kladnig, W. 1777  
 Klagsbrun, M. 3324  
 Klajman, A. 4027  
 Klásek, A. 3770, 3771  
 Klaver, R. F. 4589  
 Kleber, W. 4727  
 Kleef, F. S. 4473  
 Klein, B. 5389  
 Klein, H. R. 344  
 Klein, M. 1313  
 Kleine, R. 5019  
 Kleiner, H. 1662  
 Kleiner, M. 3833, 3834  
 Kleiner-Bossaller, A. 4772  
 Kleinmann, A. 614  
 Kleinmann, L. M. 1499  
 Kleppe, K. 3697  
 Klesment, I. 4592, 5293  
 Klibansky, Ch. 2474  
 Klientovskaya, M. M. 34  
 Klier, A. F. 1298, 1609  
 Kliffen, C. 3206  
 Klimczak, M. 4720  
 Klimek, J. 3313  
 Klimenko, A. I. 5005  
 Klimenko, V. V. 1640  
 Klimeshov, G. K. 2630  
 Klimes-Szmik, A. 798  
 Klimisch, H.-J. 1951, 1952, 2769, 3133, 5328,  
 5329  
 Kline, R. M. 906  
 Kling, H. 1007  
 Klingebiel, U. I. 877  
 Klinot, J. 663, 3696  
 Klinotová, E. 663  
 Klinskaya, N. S. 2530  
 Klippenstein, G. L. 5189, 5444  
 Klisenko, M. A. 931, 2324, 3351  
 Kljaic, K. 2788  
 Kloocking, R. 1707  
 Kloos, G. 4961  
 Kluckhohn, J. H. 1354  
 Klyueva, L. M. 2667  
 Knapp, G. 160, 5175  
 Knauer, L. 3867  
 Knejev, M. 1519  
 Knieser, M. R. 863  
 Knight, J. A. 1150  
 Knights, B. A. 1142, 1984, 1985  
 Kniseley, R. N. 4656  
 Knitsch, K. W. 2385  
 Knizhnik, A. Z. 5381  
 Knobloch, P. 3552  
 Knopf, P. M. 2054, 2063  
 Knopp, J. 2053, 4489  
 Knotz, F. 2795  
 Know, J. H. 2152  
 Knowles, J. A. 1169  
 Knox, J. R. 1160, 1195, 1899, 1920, 3187  
 Knuferrmann, H. 1614, 4383, 4492  
 Knuppen, R. 2659, 2732, 4302  
 Knyazev, V. N. 1466, 4837  
 Ko, H. 4345, 5121  
 Kobakhidze, R. V. 571  
 Kobayashi, H. 4785  
 Kobayashi, K. 134, 406  
 Kobayashi, S. 648, 5190, 5447  
 Kobayashi, T. K. 113  
 Kobori, H. 4486  
 Koch, H. 5350  
 Koch, P. A. 3437  
 Koch, W. 3805, 3810, 3811  
 Kochakian, C. D. 3471  
 Kochetavkin, A. V. 3272  
 Kochetkov, N. K. 1583, 1969, 2803  
 Kocjan, B. 2280  
 Kočma, E. 2750  
 Kocor, M. 2660, 4208  
 Kocourek, J. 114, 389, 4499, 4707, 4953, 4981  
 Kocsi, E. 535  
 Kodak-Pathe 5275  
 Kodama, A. 4507  
 Kodoma, M. 300  
 Koell, P. 4849  
 Koeman, J. H. 1136  
 Koempf, J. 2977  
 Koen, V. 2281  
 Koenig, H. 3982, 4048  
 Koenig, K.-H. 2192  
 Koenig, R. T. 4609  
 Koenig, W. 4742  
 Koenig, W. A. 1798  
 Koessel, H. 3235, 3236  
 Koetter, H. 1119  
 Koga, K. 2009  
 Kogan, B. E. 5094  
 Kogan, L. A. 4112, 4594  
 Kogan, V. B. 2527  
 Kogure, Y. 1152, 3202  
 Koh, H. Y. 610  
 Kohnert, K. D. 1568  
 Kohout, L. 3693  
 Koide, S. S. 1495

- Koifmann, J. 5217, 5468  
Koike, H. 2830  
Koine, N. 1396  
Kojima, M. 2702  
Kojima, N. 3853  
Kojima, T. 1138, 4081  
Kojima, Y. 1397  
Koken, P. J. 3330  
Koker, A. H. 1584  
Kokocinska, H. 894  
Kokryakov, V. N. 4493  
Kokufuta, E. 4541  
Kolachkovski, A. 2558  
Kolanowski, J. 5317  
Kolarov, J. 3004, 4064  
Kolattukudy, P. E. 3878  
Kolb, B. 66  
Kolbin, M. A. 1232  
Kolchin, I. K. 4113  
Kolegov, V. I. 8, 9  
Kolenko, E. A. 2525  
Kolesnikov, S. A. 43  
Kolesnikova, B. M. 209  
Kolesnikova, R. D. 1833  
Kolesova, S. A. 4285  
Koleva, M. 1459, 1523  
Kolin, A. 2380, 4957  
Kolobielski, M. 3188  
Kolochevskaya, M. N. 5381  
Kolomiets, B. S. 3091  
Kolosov, M. N. 5366  
Koloyada, R. S. 2719  
Kolta, R. 597, 598  
Kolyadina, O. A. 5074  
Kolyago, V. M. 521  
Komai, Y. 2804  
Komanová, E. 3871  
Komarov, L. A. 646  
Komarova, N. I. 2138  
Komatsu, K. 887  
Komatsu, S. 1152  
Komers, R. 3047  
Komiya, T. 5255  
Kommert, H. J. 1484  
Kondo, A. 1539  
Kondo, K. 210  
Kondo, M. 760  
Kondo, S. 4407, 5368  
Kondo, T. 958, 1602, 4784  
Kondoh, H. 4498  
Kondritzer, A. A. 1165  
Konečný, K. 588  
Kong, Ch. M. 2397  
Konigsberg, W. H. 3405, 3760, 4174  
Konings, W. N. 2791  
Konishi, E. 4824  
Konishi, K. 804, 2203, 3203, 3439  
Konitake, N. 1902  
Konno, N. 2954  
Kono, M. 2219  
Kono, S. 1909  
Kono, Y. 4430  
Konopa, J. 699, 1869  
Konysheva, M. S. 3110  
Kook, A. I. 394  
Koomoto, R. 5429  
Kopacz-Jodczyk, T. 4821  
Kopecký, J. 4665  
Kopeyan, Ch. 710, 1016  
Koppel, V. 828  
Kopperschläger, G. 4038  
Kopwillem, A. 2402  
Kopylova, I. E. 2359  
Koracevic, D. 503  
Korach, M. 2258  
Korchagin, V. B. 2282, 2794, 2862, 4901, 5370  
Korchemnaya, E. K. 3001  
Korczak, B. 842, 2306  
Kordyum, V. A. 196, 197  
Korenev, K. D. 5285  
Korenman, S. G. 2690  
Koricnac, Z. 1560, 4452  
Koridze, Z. I. 3046  
Kofínek, J. 2154  
Korkisch, J. 3805, 3810, 3811  
Korn, E. D. 118, 3399, 3448, 3719, 3720  
Kornel, L. 4192  
Kornguth, S. E. 467, 3723  
Korobov, V. N. 386  
Korol, A. N. 4070, 4088, 4110, 5079  
Korolczuk, J. 4356, 5076  
Koroleva, E. I. 77, 3616  
Koroleva, L. V. 634  
Korol'kova, K. I. 3365  
Korsunskii, B. L. 4655  
Koryttseva, E. B. 34  
Kosaka, I. 5061, 5146  
Kosakowski, H. M. 5137, 5422  
Kośc, Z. 1752  
Koshiyama, H. 1526  
Koshland, M. E. 2938, 3119  
Koslow, S. H. 605  
Kosłowski, H. 397, 884  
Kosmatyi, E. S. 910, 917, 918, 919, 3348, 3935  
Kosmennikova, Z. P. 2353  
Kośmider, J. 640  
Kostova, A. 5049  
Kostyra, H. 4215  
Koszewski, J. 1870  
Kotarski, A. 3932, 4135  
Kothari, R. M. 4670  
Kotova, N. I. 2282, 2794, 5370  
Koubek, J. 566  
Koudela, S. 5253

- Kouřilová, D. 23, 562  
Koutek, B. 3684  
Kováč, J. 3871, 5373  
Kovacicova, J. 2164  
Kovacs, J. 880  
Kovacs, K. 3892  
Kovalenko, E. V. 3852  
Kovalenko, T. A. 4862  
Kovaleva, G. K. 1034  
Kovaleva, N. V. 548  
Kovan'ko, Yu. A. 2524, 2535  
Kovář, J. 3587  
Kovary, S. 3842  
Kováts, E. sz. 1103, 1108, 2641  
Koves, E. 3103  
Kovjazin, V. E. 3565  
Kovner, V. Y. 824  
Kovtunenko, E. N. 2524  
Kowalczyk, J. S. 3861  
Kowalska, T. 4117  
Kowalski, J. 4864  
Kowblansky, M. 3546  
Koyama, T. 3683  
Kozhemyakin, V. I. 4092  
Kozhin, S. A. 4203  
Kozhukhov, V. I. 3887  
Koziell, D. A. 3426  
Kozkova, V. S. 4110  
Kozlov, E. A. 4002  
Kozlov, S. P. 3056  
Kozlov, V. A. 3097, 3239  
Kozlova, V. D. 3106  
Krahl, B. 672  
Krahn, J. 1306, 1610  
Kraiker, H. P. 2789  
Kraimer, H. 2193  
Kraitr, M. 3047  
Krajewski, T. 3518  
Kramer, A. Ya. 4113  
Kramer, K. J. 2099, 2104, 2980, 2982  
Kramer, U. 5162  
Kranz, D. 1369  
Kranz, K. R. 5204, 5456  
Krasavchenko, M. I. 5069  
Krashennikov, S. K. 1758  
Krasiejko, T. 1794, 2298  
Krasnicki, K. 4908  
Krasnova, I. P. 5090  
Krasny, H. C. 4246  
Krasznai, Gy. 535  
Krause, M. O. 441, 700  
Krause, T. 4850  
Krause, W. 4744  
Krauze, R. 143  
Krawczyk, A. 5028  
Krawczynski, J. 395, 2997  
Krebs, K. F. 1908  
Křeček, V. 3698  
Kregar, I. 3672  
Kreil, G. 407  
Kreiner, J. G. 4429  
Krejčí, I. 667, 979  
Krejčí, M. 23  
Kremer, L. 3615  
Kremmer, T. 1184  
Krempaský, V. 3004, 4064  
Krenitsky, T. A. 2118  
Kreth, M. 2659  
Kreuzaler, F. 194  
Krichevskaya, A. A. 2394  
Krichmar, S. I. 3541  
Krijnen, H. W. 2675  
Krisch, K. 4465, 4754, 5423  
Krishen, A. 4633  
Kristiansen, T. 3648, 4049, 4708, 4709  
Kristol, L. D. 5071  
Kritchevsky, D. 1483, 2915  
Křiváková, M. 1107, 3658  
Krivolapov, S. S. 63  
Kroebe, R. 3122  
Kroeger, H. 3501, 3757  
Krogh, P. 4331  
Krol, Z. 3347, 4903  
Kropinski, A. M. B. 2149, 2316  
Kruchinina, A. A. 4419  
Krueger, H. 4289  
Krueger, R. 2766  
Krueger, W. 1975  
Kruessmann, H. 4262  
Kruglov, E. A. 538, 1764, 5094  
Krupčík, J. 57, 4563  
Krupička, J. 3764  
Kruse, K. 5027  
Krutošiková, A. 3871  
Krych, Z. 4130  
Krylov, V. A. 1135  
Krylova, Yu. I. 4464  
Krysl, S. 3015  
Krystal, G. 729  
Krzhevova, R. V. 5372  
Krzyszosiak, W. J. 5296  
Kubánek, J. 114, 389  
Kubát, J. 3566  
Kubeczka, K.-H. 60, 1274  
Kubelka, V. 582  
Kuby, S. A. 3480  
Kuc'an, Ž. 2126  
Kučera, J. 4346  
Kučera, P. 1216, 1226, 1922  
Kuchař, M. 4804  
Kuchel, O. 4301  
Kucherov, V. F. 1742, 1761, 3042  
Kucherova, A. I. 4417  
Kuchhal, R. K. 1751



- Kuchino, Y. 5221  
 Kudasheva, F. Kh. 5074  
 Kudrnáč, S. 4391  
 Kudryavtseva, N. A. 78  
 Kuehn, K. 117, 687, 989, 2043  
 Kuelpmann, W.-R. 4367  
 Kuepper, H. 731  
 Kueppers, F. J. E. M. 635  
 Kufner, G. 2849  
 Kuhl, H. 2294  
 Kuhnle, E. 672  
 Kuiper, H. A. 982, 1295  
 Kuklin, V. M. 2520, 2526, 2536  
 Kuksis, A. 593, 2805, 3082, 4118, 4119  
 Kulaev, I. S. 4245  
 Kulak, V. G. 223  
 Kuliev, A. M. 572  
 Kulig, M. J. 5321  
 Kuligin, V. M. 4943  
 Kulikov, V. I. 2552  
 Kulikowski, T. 304  
 Kulish, L. F. 5079  
 Kulkarni, J. R. 3349  
 Kullberg, M. P. 5390  
 Kumagai, M. 5364  
 Kumamoto, M. 81  
 Kumar, V. 485, 744  
 Kunde, K. 4847  
 Kundu, N. 5318  
 Kunkel, J. G. 5430  
 Kunugi, A. 3301  
 Kuo, K. C. 5165  
 Kupchan, S. M. 3697  
 Kurakina, S. P. 2282  
 Kurbskii, G. P. 3051, 3052, 3059, 3063  
 Kurita, T. 4834  
 Kurkchi, G. A. 39  
 Kurochkina, M. I. 634  
 Kuroda, D. 3200  
 Kuroda, K. 1538  
 Kuroda, R. 958, 3373, 3853, 4784  
 Kurooka, S. 4242, 4474  
 Kuryatov, N. S. 4129  
 Kurylo-Borowska, Z. 5191, 5404  
 Kusai, A. 166  
 Kusaks, R. 881  
 Kusch, P. 2344  
 Kushchinskaya, I. N. 5372  
 Kushwaha, R. P. S. 3878  
 Kushwaha, S. C. 2342, 3190  
 Kusiak, J. W. 3505  
 Kusmierek, J. T. 2134, 2228  
 Kušnir, J. 1299, 1611  
 Kutsenko, A. I. 3620  
 Kutsenko, V. P. 3535  
 Kutsumi, T. 743  
 Kutty, K. M. 1593  
 Kuwahara, S. S. 3303  
 Kuwamura, H. 3079  
 Kuzaev, A. I. 1370, 4263, 4264  
 Kužela, Š. 3004, 4064  
 Kuz'menko, E. A. 1253, 4257  
 Kuz'min, S. V. 2138, 4459, 4956  
 Kuznetsova, E. V. 4844  
 Kuznetsova, L. G. 2563  
 Kuznetsova, T. S. 3591  
 Kuzovkin, M. N. 4587  
 Kuzovkin, V. A. 1761, 3042  
 Kuzyaeva, V. V. 2552  
 Kvasova, V. A. 1779  
 Kwapniewski, Z. 2404  
 Kwaśniewska, I. 4356  
 Kwiatkowska, J. 4042  
 Kwiatkowska, M. 4369  
 Kwolek, W. F. 4082  
 Kynast, G. 882  
 Kyu, T. 1137  
 Kyziol, J. 5356
- L**
- Laatikainen, T. 3256  
 Labar, D. 1605  
 Labeyrie, F. 498, 1024  
 Labia, R. 3650  
 Labossiere, A. 4495  
 Lacave, C. 1594  
 Lacaze, P. 19  
 Lachance, J.-P. 5134  
 Lachantin, G. F. 3492  
 Lachman, L. 342  
 Ladešiz, B. 4983  
 Ladon, A. W. 4560  
 Lafont, H. 4729  
 Lafosse, M. 3547  
 Lagally, H. 801  
 Lagerström, P. O. 1843  
 Lagner, H. J. 1065  
 Lagocki, J. W. 745  
 Laham, S. 359  
 Lahiri, B. 408  
 LaHue, M. D. 4144  
 Laik Ali, S. 4641  
 Laine, R. 2287  
 Laird, W. M. 125  
 Lairon, D. 4729  
 Laitio, M. 4297, 4724, 4986  
 Lake, R. S. 3456  
 Lake, W. C. 2222  
 Lakshmi, M. S. 393  
 Laland, S. G. 4185  
 Lambert, J. 969  
 Lamblin, G. 3413, 3674, 3983

- Lamed, R. 1332  
Lamotte, A. 4401  
Lampen, J. O. 5459  
Lamport, D. T. A. 3161, 4035  
Lamson, D. W. 313, 314, 1363, 1518, 3335  
Lanchantin, G. F. 3746  
Land, D. G. 3575  
Landgraf, H. R. 1480  
Landgraf, W. C. 122  
Landgraff, L. M. 3152  
Landis, A. L. 1204  
Landon, M. 2040  
Landow, E. J. 5193, 5448  
Lane, B. G. 506, 1671, 2148  
Lane, Ch.-D. 446, 703, 1009, 2736  
Lane, D. A. 2553  
Lane, M. D. 3240  
Lane, R. H. 1383  
Lang, R. E. 1795  
Langenbeck, U. 591, 637  
Langer, H. J. 903, 2993  
Langham, W. S. 1470  
Langille, K. 2151  
Langille, K. R. 791  
Langner, D. 4742  
Langner, H. J. 327  
Lanman, R. C. 4408  
Lanser, A. C. 4082  
Lanyon, W. G. 5472  
Lanzani, G. A. 4746  
Lapidot, Y. 241, 1327, 1337  
Lapière, Ch. L. 2846  
Lapkin, L. M. 1764  
Lapteva, F. I. 3037  
Laraia, P. J. 4010  
Larin, N. V. 3613  
Larochelle, J. 4698  
La Rotonda, M. I. 2762  
Larsen, Ch. J. 1064  
Larson, D. L. 1680  
Larson, J. W. 2046  
Larsson, A. 719  
Larsson, S. 54, 4116  
Larue, B. 765  
Lasa, J. 1752, 2516  
Lasas, L. 455  
Lasch, J. 1668  
Laseter, J. L. 3120  
Laskowski, Sr., M. 1345, 2462, 5152  
Lason, M. 4949  
Lasser, N. L. 2418  
Lassota, Z. 5025  
Lasta, M. E. 2495  
Laszkiewicz, B. 2301  
Laszlo, J. 5202  
Latysh, V. G. 1833  
Latysheva, L. M. 4136  
Lau, E. 2391, 3179  
Laub, E. 4202, 4725  
Lauer, K. 110  
Laulhere, J. P. 969  
Launay, A. N. 5300  
Laurell, C. B. 367, 2955  
Laurent, F. 4916  
Laverigne-Poindessault, B. 2932  
Lavrenova, A. S. 1770  
Law, J. H. 745, 2099, 2104, 2980, 2982  
Law, L. M. 621  
Law, P. Y. 4773  
Law, R. D. 1365  
Law, S. L. 4315  
Lawler, D. M. 5430  
Lawless, J. G. 604  
Lawrence, J. F. 277, 1871, 4566  
Lawrence, J. G. 3685  
Lawrence, J. M. 2307  
Lawrence, R. V. 59  
Lawrie, R. A. 2945  
Lax, E. R. 2285, 2594, 5303  
Lax, S. 788  
Lazar, J. 4236, 4516  
Lazaris, A. Ya. 1815  
Lazarre, F. 2513  
Lazarus, W. 3155  
Lazdins, I. 4249  
Lazdunski, A. 419  
Lazdyns, I. 1356  
Le, T. N. 3381  
Lea, O. A. 3397, 3718  
Leach, E. W. 2511  
Leach, F. R. 4497  
Leary, J. J. 532, 1733  
Leautey, J. 4260  
Leavitt, R. A. 3600  
Lebada, P. 1367  
Lebherz, H. G. 2033, 2121  
Leblanc, A. 2932  
Leboda, R. 26, 556, 2522  
Lebreau, A. 889, 890, 1599, 1600, 2310, 2311  
Le Breton, E. 284  
Lecadet, M.-M. 1298, 1609  
Le Cam, A. 2153  
Lecanidou, R. 507, 1056  
Lederer, F. 402, 1022, 4180  
Lederer, M. 251, 1068, 1069, 2246, 2403, 2502, 2891, 5398  
Lederer, W. H. 2765, 5056  
Leduc, M. 1720, 2210  
Lee, E. Y. C. 730, 1035  
Lee, L. 154, 454  
Lee, M. H. 3472  
Lee, M.-L. 3592  
Lee, R. E. 1717  
Lee, S. C. 3906

- Lee, S. G. 1669  
 Lee, W. R. 4619  
 Lee, N. E. 1905  
 Lee-Huang, S. 711 1017,  
 Leeman, S. E. 3423  
 Leene, H. R. 959  
 Legault, D. 4637  
 Legaz, M. E. 2055, 2956, 4005  
 Lege, G. 3562  
 Legé, G. J. 5066  
 Leger, J. J. 3963  
 Leget, J. N. 1643  
 Legg, J. I. 4280  
 Legocki, A. B. 3722, 3727  
 Le Goffic, F. 3650  
 Legrand, J. C. 236  
 Lehle, L. 2085  
 Lehmann, G. 3308  
 Lehmann, H. 146, 442, 3991, 4495  
 Lehmann, V. 2766  
 Le-Hong, N. 2781  
 Lehwalt, M. E. 4427  
 Leiner, K. 3105, 3337  
 Leis, J. 3741  
 Leitch, R. E. 1900  
 Leitner, J. E. 3031  
 Leitner, P. M. 4147  
 Leloir, L. F. 1591  
 Lemarchal, P. 284  
 Lemli, J. 1558  
 Lemonde, A. 3274  
 Lemonnier, A. 4671, 4894  
 Lefant, G. 2542  
 Lenkevich, Zh. K. 573, 1134, 3567  
 Lennox, E. S. 2054  
 Lentze, M. 3907  
 Leon, C. 852  
 Leonard, N. J. 3322  
 Leoni, V. 3661  
 Leont'eva, S. A. 1779  
 Leopold, H. 5175  
 Le Pogam, J. 4306  
 Leppaenen, O. 1799  
 Lepretre, M. 3381  
 Lepri, L. 293, 2364, 4398, 5330  
 Le Quesne, P. W. 3331  
 Lerman, Z. A. 3340  
 LeRoy, P. 515  
 Lesca, M. F. 276  
 Leshchiner, A. S. 1774  
 Lesiak, T. 2300  
 Leskin, V. V. 3106  
 Leslie, R. B. 5163, 5413  
 Lesne, M. 2825  
 Lesniak, M. A. 157  
 Lester, J. F. 624  
 Lester, R. L. 1421  
 Leung, W.-C. 4041  
 Leusen, I. 3691  
 Levanti, C. 1491  
 Levanti, S. 1491  
 Levchenkova, I. D. 2790  
 Levi, G. 129  
 Levi, I. 625, 626  
 Levillain, P. 4894  
 Levin, E. D. 3977  
 Levin, J. A. 232  
 Levin, S. 1682  
 Levin, Y. 1332  
 LeVine, D. 1697  
 Levine, S. P. 2547  
 Levinstein, R. 4876  
 Levitan, T. L. 4882  
 Levitin, T. L. 4002  
 Levitov, C. 383  
 Levitt 515  
 Levshtein, V. A. 3057  
 Levy, C. C. 2839, 3130, 4210  
 Levy, D. 2017, 2018  
 Levy, E. J. 2545  
 Levy, E. M. 4108  
 Levy, R. I. 2415, 2416, 2417, 2680, 4519  
 Lewandowska, T. 3870  
 Lewandowski, J. 3677  
 Lewis, A. J. 4870  
 Lewis, L. A. 380, 2422, 2497, 4993  
 Lewis, L. N. 3383  
 Lewis, Jr., L. W. 255  
 Lewis, M. K. 4820  
 Lezhava, D. I. 3302  
 Lezina, S. K. 3010  
 Lhermitte, M. 3983  
 Lhuguenot, J. C. 1181  
 Li, C. H. 3226, 3707  
 Li, H. C. 240, 2086  
 Li, S.-C. 2409  
 Li, S.-L. 2034, 2035  
 Liao, H.-L. 3525  
 Liao, T.-H. 2041  
 Liberatore, F. A. 5189, 5444  
 Liberek, B. 127  
 Liberti, A. 1097  
 Liberti, J. P. 1585  
 Libizov, N. I. 2359  
 Lichev, V. 3211  
 Lichtash, N. 3970, 4475  
 Lichtenberg, D. 3835, 4810, 4812  
 Lichtenstein, H. A. 27, 1173  
 Liebich, H. M. 1173  
 Liebman, S. A. 2545  
 Lie Ken Jie, M. S. F. 5073  
 Liem, D. H. 4327  
 Liener, I. E. 139, 399  
 Liew, C. C. 1287, 2087

- Lifits, A. L. 2537  
 Lifter, J. 4174  
 Ligezowa, S. 4949  
 Lightfoot, G. A. 4803  
 Likhosherstov, L. M. 1583, 1969, 1970  
 Lillehaug, J. R. 3697  
 Lim, P. E. 182  
 Lim, R. 4028  
 Limpert, R. J. 1889  
 Lin, M. T. 4332  
 Lin, R.-L. 3105, 3337, 4869  
 Linch, A. L. 3857  
 Lindahl, T. 764, 2127  
 Lindberg, A. A. 55  
 Lindberg, B. 55, 4115, 4600  
 Linder, R. 4186  
 Lindgren, F. T. 2416  
 Lindgren, J.-E. 537  
 Lindl, T. 194  
 Lindley, H. 3127  
 Lindskog, S. 4963  
 Lindstedt, S. 2259  
 Lingens, F. 2645  
 Link, H. 2970  
 Linkiewicz, M. 53  
 Linko, R. R. 5292  
 Linley, P. A. 3829, 4652  
 Linn, S. 5464  
 Linnemann, F. 4032  
 Linsenmayer, T. F. 1309, 2061  
 Lipavskii, V. N. 4083  
 Liphshitz, A. 1620  
 Lipmann, F. 1669  
 Lipp, K. 974, 2933  
 Lipper, R. A. 2863  
 Lipshtein, A. R. 3058  
 Lis, A. W. 774, 4728  
 Lis, H. 655, 3419  
 Lishanskaya, A. I. 1693  
 Lissitzky, S. 132, 710, 1016, 3987  
 Lister, R. M. 2898  
 Listowsky, I. 4017, 4018  
 Litchfield, C. 287  
 Liteanu, C. 883, 1425, 1455, 1500, 1502, 5031  
 Litmanowitsch, M. 321  
 Littauer, U. Z. 4179  
 Little, J. N. 1932  
 Littlechild, J. 3493  
 Litvinenko, V. I. 4684  
 Litvinov, A. M. 2944  
 Litvinov, V. P. 611  
 Litwack, G. 691, 1319, 3970, 4475  
 Lityaeva, Z. A. 1115  
 Liu, C.-S. 2446  
 Liu, E. H. 4035  
 Liu, H. Ch. 3821  
 Liu, Y.-Y. 3092  
 Livshits, V. I. 500  
 Lizogub, A. P. 47  
 Ljung-Dahl, L. G. 721, 1026  
 Llambias, H. 3854  
 Lloyd, J. B. F. 533  
 Lloyd, P. H. 2432  
 Lo, C.-H. 3438  
 Lochmueller, C. H. 2746, 4573, 5046  
 Locke, D. C. 1901  
 Lodge, B. A. 1987  
 Lodge, Jr., J. P. 4144  
 Lodish, H. F. 3408  
 Loeb, L. A. 3484, 4969  
 Loeffel, H. 363, 3252, 4321  
 Loeffler, L. J. 2642  
 Loemker, F. 3099  
 Loennerdal, B. 3398, 3747  
 Loenngren, J. 4115  
 Loeper, J. 2934  
 Loetscher, K. 2661  
 Loev, B. 1883, 4169  
 Loevell, S. J. 1865  
 Loewenschuss, H. 937  
 Logan, R. W. 1579, 1962  
 Logardt, I. M. 2834  
 Lohde, H. 2512, 2582, 2583  
 Loheac, J. 1953  
 Lohmander, S. 1971  
 Loktyushkina, M. B. 4136  
 Lomax, J. A. 3883  
 Lombosi, T. 535  
 Londesborough, J. C. 3118  
 London, Y. 1268  
 Long, Jr., L. 3956  
 Longton, R. W. 695, 1000  
 Lonsky, L. 1196  
 Loomis, W. F. Jr. 2090  
 Lopatin, B. L. 3106  
 Lopatin, V. G. 2994  
 Lopatina, N. I. 1432  
 Lorand, L. 426, 5000  
 Lorincz, C. 1221, 2632, 3261  
 Lorincz, S. 1221, 2632, 3261  
 Loshchilova, V. D. 4557  
 Losick, R. 3482, 3483, 3737  
 Loskutnikova, G. G. 3098  
 Lotan, R. 655  
 Lott, P. F. 2254  
 Lotz, R. 2971  
 Lou, M. F. 3156  
 Louis, L. N. 2059, 2438  
 Louis, R. 16  
 Lounasmaa, M. 3849  
 Lousberg, R. J. J. Ch. 635  
 Louvard, D. 3749  
 Lovelady, H. G. 319, 2857  
 Lovins, R. E. 3645

- Loviny, T. 1054, 2738  
 Loviny, T. F. L. 2943  
 Lovric, L. 2709  
 Low, R. B. 4008  
 Lowe, C. R. 4181, 4182, 4183  
 Lowe, D. A. 4243  
 Lowenkron, S. 3403  
 Lowenstein, H. 2951  
 Lowry, S. R. 532  
 Loy, P. R. 4138  
 Loyola, V. M. 5279  
 Lozano Simal, J. 2455  
 Lozgachev, V. I. 5, 40, 5037, 5063  
 Lozovan, G. K. 398  
 Lozsa, A. 2419  
 Lu, B. C.-Y. 5130  
 Lu, C. Y. 3982  
 Luan, N. T. 2822, 3812  
 Lubbs, H. 2184, 3371  
 Luchian, A. 1503  
 Luczkiewicz, I. 4938  
 Ludden, T. M. 4408  
 Ludlam, P. R. 940, 941  
 Ludwicki, H. 5286  
 Ludwig, G. 4933  
 Ludwig, J. 945  
 Lue, P. F. 2087  
 Luedy-Tenger, F. 3947  
 Luening, B. 4128  
 Luers, R. B. 4390  
 Lugaro, G. 1289, 1598  
 Luisi, M. 1491  
 Lukash, A. I. 2394  
 Luke, B. G. 1816, 2585  
 Lukoyanova, M. A. 1722  
 Lulova, N. I. 46, 78, 576, 1100, 1779, 3005,  
 3058, 3569, 5070  
 Lum, S. 1398  
 Lunardelli, M. 1077  
 Lunbald, A. 3217, 5244  
 Lund, E. 1677  
 Lundahl, P. 4998  
 Lundin, C. 4128  
 Luner, S. J. 2380, 4957  
 Lunev, V. D. 634  
 Lunney, J. 368  
 Lunsikii, M. Kh. 4086, 4107  
 Lupetti, S. 2664, 3249  
 Luppis, B. 782, 1343  
 Luskina, B. M. 1758, 1763, 2538  
 Lusuardi, W. G. 2880, 2881  
 Luther, H. 3593  
 Lutomski, J. 242  
 Lutz, P. 3372  
 Luu Duc, M. C. 4822  
 Luyten, J. A. 4123  
 L'vovich, L. M. 63  
 Lyagin, Yu. M. 4090  
 Lykasis, J. J. 2447  
 Lyle, S. J. 3631  
 Lynen, R. 433, 4987  
 Lynes, T. E. 5145  
 Lynn, K. R. 3748  
 Lynn, W. S. 993, 3431  
 Lyons, P. 1386  
 Lysenko, O. 423, 2445  
 Lysynkov, N. V. 4758  
 Lyubliner, I. P. 4277
- M**
- Ma, J. C. N. 4827  
 Ma, T. 3438  
 Ma, T. S. 896, 1924  
 Maarse, H. 2532  
 Maayan, R. 161, 464  
 Mabry, T. J. 270  
 Macák, J. 1128  
 McAllister, W. T. 731  
 Mc Bride, Jr., J. R. 5416  
 Macbride, Jr., R. C. 1648  
 McCall, A. C. 1813  
 McCallum, N. K. 51, 3607  
 McCan, G. D. 4546  
 McCarty, K. S. 1311  
 McCarty, R. E. 2288  
 McClain, P. E. 1310  
 McClellen, R. E. 2990  
 McClure, A. M. 3969  
 McConathy, W. J. 4992  
 McCormick, J. J. 1694  
 Mac Coss, M. 3911  
 McCoy, B. J. 4692, 5042  
 McCullough, P. R. 1765  
 McCullough, T. 3208  
 McCutchan, T. F. 4310  
 MacDermott, T. E. 5427  
 MacDonald, A. 1874  
 MacDonald, F. R. 1855, 2633  
 MacDonald, I. A. 1492  
 McDonald, J. K. 5336  
 Macdonald, P. D. M. 2116  
 McDonald, T. J. 2001  
 McDuffie, N. M. 5405  
 McEvoy, F. A. 993, 3431  
 McFadden, B. A. 5024  
 McFadden, W. H. 3522  
 McFadyen, P. 1711  
 McGale, E. H. F. 5171  
 McGilveray, I. J. 4653, 4781, 5117  
 McGirr, L. 3733  
 McGugan, W. A. 1768  
 McGuinness, E. T. 3637

- McGuinness, J. D. 1419  
 McGuire, E. J. 3213  
 Mach, B. 1927  
 Machata, G. 3072  
 Machin, A. F. 916, 3606, 4264  
 Machovičová, F. 2358  
 McIlroy, P. J. 3186  
 McIlwaine, I. 3458  
 McIlwrick, C. R. 5057  
 McIntosh, A. D. 2942  
 McKay, T. R. 633, 1163  
 Mackay, V. 5464  
 McKee, P. A. 3429, 3443  
 MacKenzie, R. E. 2694, 2919  
 MacKenzie, S. L. 4972  
 Mackey, J. K. 3831  
 Mackie, R. I. 3189  
 McKinney, C. R. 3645  
 McKinney, J. 627  
 McKone, C. E. 628  
 McLaughlin, C. S. 1683  
 McLaughlin, J. L. 310  
 MacLean, D. L. 214, 339  
 McLean, Jr., J. A. 1399  
 McLean, W. R. 2517, 3538  
 MacLellan, B. L. 4904  
 McLeod, H. A. 5058  
 McMaster-Kave, R. 1634  
 Macmillan, J. 3191  
 McMorris, D. W. 4567  
 McNair, H. M. 1753, 3125  
 McNair, M. 1207  
 MacNeil, J. D. 329, 791, 4904  
 MacNeil, J. O. 2151  
 McQueen, E. G. 5113  
 McQueen, H. M. 2046  
 McRae, J. 2718  
 Macrussen-Wulff, G. 4754  
 Madani, C. 1141  
 Maddams, W. F. 3537  
 Maddock, J. W. 1368  
 Madeira, V. M. C. 456  
 Madej, A. 74  
 Mader, W. J. 344  
 Madsen, B. C. 3257  
 Maeba, P. Y. 501  
 Maeda, K. 1524, 4407, 4785, 5368, 5371  
 Maeda, M. 668, 2010  
 Maehr, H. 1504  
 Maes, N. A. 1399  
 Mäsiar, E. 671  
 Mäsiar, P. 168, 475, 671  
 Maestracci, D. 3463  
 Maestri, N. 657  
 Mager, S. 1775  
 Maghuin-Rogister, G. 3992, 3993  
 Maggio, E. T. 2314  
 Maggs, R. J. 96  
 Magnani, H. N. 4992  
 Maguire, J. 3464  
 Mahajani, U. 2074  
 Mahal, H. S. 841, 942  
 Mahapatra, G. N. 4896  
 Mahapatra, S. N. 3288  
 Mahel'ová, H. 5373  
 Mahieu, P. M. 1586, 1972  
 Mahony, D. E. 1492  
 Maickel, R. P. 2786  
 Maichuk, D. T. 2227  
 Maidachenko, G. G. 3025  
 Mainwaring, W. I. P. 3971, 4230  
 Maitra, U. 3475  
 Major, G. 1424  
 Majoros, G. 645  
 Majors, R. E. 1197, 1208, 1451, 1855  
 Majumder, G. C. 1641  
 Mak, D. S. H. 1151  
 Makabe, H. 4834  
 Maki, Y. 2367  
 Makita, A. 5309  
 Makita, M. 1137  
 Maksimenko, E. G. 3620  
 Maksimenko, O. A. 2560  
 Makushina, V. M. 5068  
 Malakhov, V. V. 3023, 3111, 4587  
 Maland, L. 3480  
 Mal'chukovskii, L. B. 2359  
 Malchy, B. 409, 682, 1587  
 Malcolm, P. J. 4  
 Maldacker, T. A. 5136  
 Malek, B. 242  
 Malgrand, M. 5298  
 Malhotra, S. 1483  
 Malievskii, A. D. 1800  
 Malik, A. 2757  
 Malikov, V. M. 3920  
 Malina, Yu. F. 584  
 Malinin, O. M. 920  
 Malkievicz, A. 4055, 4056  
 Mallet, V. 331, 909  
 Mallik, K. L. 1751  
 Mal'tseva, A. T. 872  
 Malý, E. 5241  
 Malyshenko, S. I. 225  
 Mamedov, Sh. 3094  
 Mamer, O. A. 1788  
 Mamina, F. A. 1790  
 Mamontova, G. A. 124, 602  
 Mamulov, F. G. 97  
 Manabe, S. 4428  
 Manahan, C. O. 1704  
 Mancini, B. 2826, 2827  
 Mancini, M. A. D. 2826  
 Mandava, N. 3837, 4134, 4672

- Mandel, P. 4704, 5415, 5417  
 Mandik, L. 4632  
 Manecke, G. 4891  
 Maneva, D. 1442, 1443, 1444, 1445, 1446, 2234, 3855  
 Mangold, H. D. 2368  
 Mani, R. S. 410  
 Maňko, R. 251  
 Manley, R. S. J. 1260  
 Mann, J. R. 543  
 Mann, K. G. 1866, 4502  
 Manners, D. J. 3823, 3979, 4600  
 Manners, G. D. 5399  
 Manni, P. E. 2863  
 Manno, B. R. 5109  
 Manno, J. E. 5109  
 Mansbridge, J. N. 5472  
 Mansurova, S. E. 4245  
 Manzone, G. 4649  
 Mapelli, S. 3639  
 Mapes, C. A. 2395, 2643  
 Marai, L. 4119  
 Marais, L. 1872  
 Maraone, C. 954  
 Marbach, P. 4871, 5335  
 Marcel, R. 785  
 March, S. E. 2369  
 Marchal, C. 3370  
 Marchalonis, J. J. 5431  
 Marchi, A. 911  
 Marcotrigiano, G. O. 2235  
 Marcu, G. 519  
 Marcu, K. 1340  
 Marechal, E. 3196  
 Mareček, Z. 2154  
 Marei, S. 2185  
 Mareš, P. 1140  
 Marfey, P. 4368, 4765  
 Margarida, R. 4976  
 Margolis, F. L. 1018  
 Margolis, J. 2386, 2906  
 Margolis, R. K. 1245  
 Margolis, R. U. 1245  
 Marguardt, P. 3900  
 Mariich, L. I. 573, 1134, 3567  
 Mařík, K. 3548  
 Marík, T. 4499  
 Marini, P. 2625, 2722  
 Marini-Bettòlo, G. B. 4768  
 Marin-Mudrovic, S. 1954  
 Mariya, H. 2916  
 Mark, von der, K. 683  
 Markelov, V. F. 1946, 2523  
 Markelova, N. Yu. 675  
 Markey, S. P. 1825  
 Markina, N. A. 4817  
 Markina, N. G. 4113  
 Markle, J. C. 631  
 Markov, B. A. 4092  
 Markov, G. G. 1060  
 Markov, S. V. 1571  
 Markovich, V. E. 3620  
 Markowitz, S. S. 3619  
 Markowska, A. 4130  
 Markowski, B. 1569  
 Marks, F. 1511  
 Marks, J. S. 2983  
 Markus, G. A. 3576  
 Markussen, J. 411, 684  
 Marotta, C. A. 2839  
 Maroux, S. 3749  
 Marrow, Jr., G. S. 620  
 Marquez, J. A. 4317  
 Marquilles, J. 272  
 Marquilles, M. 3379  
 Marsal, A. 272, 3379  
 Marsault, C. 292  
 Marshall, J. A. 641  
 Marshall, J. S. 1631  
 Martelli, P. 606, 4745  
 Martenson, R. 712, 1019  
 Marti, J. 115  
 Martin, A. 4490  
 Martin, G. E. 3136, 4911  
 Martin, G. M. 5326  
 Martin, G. R. 5182, 5435  
 Martin, J. 390  
 Martin, M. 1222, 1921, 1953, 4690  
 Martin, R. 2271  
 Martin, R. J. 1154  
 Martin, T. T. 2260  
 Martin, W. 474  
 Martin, W. E. 4216  
 Martin, W. G. 1359  
 Martinez, Jr., E. L. 4311  
 Martinez, G. 710, 1016  
 Martinez Grau, C. 372, 2383  
 Martinez-Medellin, J. 1633  
 Martinson, H. G. 2144  
 Martinù, V. 1161  
 Martire, D. E. 3525  
 Marton, L. J. 4210  
 Martynov, A. A. 3059  
 Maruo, B. 1046  
 Marushige, K. 5185, 5440  
 Marushige, Y. 5185, 5440  
 Maruyama, K. 437, 3258  
 Maruyama, M. 4486  
 Marx, A. 237  
 Mar'yakhin, R. Kh. 580, 1116, 1117, 1762, 3018  
 Mary'asin, I. L. 3564  
 Marzilli, L. G. 1385  
 Marzo, A. 349

- Masada, Y. 1824, 1826  
 Mashbits, A. V. 1946  
 Mashburn, Jr., T. A. 4982  
 Mashek, V. 5093  
 Mashford, M. L. 5116  
 Masini, A. 758  
 Maslov, V. A. 4786  
 Maslowska, J. 273, 825, 2301  
 Mason, K. T. 2735, 3421, 3703  
 Masoud, A. N. 4438  
 Masquelier, J. 276, 4333  
 Massa, V. 307, 853, 878  
 Massaldi, H. A. 3560  
 Massard, R. 2780  
 Massarelli, R. 5417  
 Massart, D. L. 258, 2879, 5041  
 Massey, V. 2079, 3712  
 Masson, A. J. 3823, 4600  
 Masson, P. L. 3418  
 Massot, J. C. 2727  
 Massucci, M. A. 1380, 1381  
 Masud, Z. 2164  
 Masuzawa, M. 2435  
 Matějka, Z. 2190  
 Mathew, T. V. 4377  
 Mathews, B. L. 2867  
 Mathews, R. G. 1109  
 Mathias, A. P. 4469  
 Mathieson, D. W. 599  
 Mathieu, C. M. 180  
 Mathieu, P. 234  
 Mathis, C. 2261, 2332  
 Mathis, M. C. 4389  
 Mathur, D. S. 1131  
 Mathur, M. 1737  
 Matijević, E. 1711  
 Matin, A. 2791  
 Matin, S. B. 4139  
 Matkovics, B. 3892  
 Matney, T. S. 2988  
 Matoba, E. 4946  
 Matoltsy, A. G. 3449  
 Matoltsy, M. N. 3449  
 Matoušek, P. 3067  
 Matringe, H. 1699  
 Matsuda, H. 3319  
 Matsuda, M. 1933  
 Matsuda, T. 2124, 2984  
 Matsueda, G. R. 3908  
 Matsueda, T. 3804  
 Matsui, F. 3254, 3361  
 Matsui, H. 1948  
 Matsui, M. 1143  
 Matsukawa, S. 2804  
 Matsumoro, S. 3891  
 Matsumoto, I. 4710  
 Matsumoto, J. 1214  
 Matsumoto, T. 50, 3084, 4703, 5424  
 Matsumoto, U. 3301  
 Matsumura, F. 2577  
 Matsumura, Y. 357  
 Matsuoka, Y. 128  
 Matsushima, Y. 747  
 Matsutera, E. 4952  
 Matsuura, Y. 210  
 Matsuyama, T. 300  
 Matsuzaki, K. 4430  
 Matsuzawa, Y. 4409  
 Matte, A. 353  
 Matthaei, H. 1003  
 Matthews, D. R. 1176  
 Matthews, M. J. 3830  
 Matthieu, J. M. 3388  
 Matula, J. M. 3687  
 Matuo, Y. 4711, 4717  
 Matveev, G. N. 2975  
 Matyash, L. F. 1300  
 Matyjewski, P. 4593  
 Matysová, A. 4293  
 Matyukhina, O. S. 824  
 Mau, S.-L. 1031  
 Maubois, J. L. 180  
 Mauger, A. B. 2735, 3192, 3421, 3703  
 Maume, B. F. 1181, 4123  
 Maume, G. 1181  
 Maurice, A. 283  
 Mautsch, M. 2550  
 Mavrides, C. 4476  
 Maxia, V. 1391, 4795  
 Maximov, O. B. 5228  
 May, R. W. 1817  
 May, W. 1206  
 Mayer, H. 746, 748, 1042  
 Mayer, K. 2596  
 Mayer, R. T. 5346  
 Mayer, S. 2850  
 Mayhew, S. 3712  
 Maylić, M. F. 1043, 2105  
 Maynard, J. B. 2505  
 Mayumi, T. 3471  
 Mayyasi, S. A. 1680  
 Maza, M. 4859  
 Mazur, H. 4431  
 Mazza, M. 3193  
 Mazzara, M. R. 4989  
 Mazzola, G. 1289, 1598  
 Mazzotta, M. Y. 4043, 4233  
 Mazzuckelli, L. F. 3479  
 Mbawa, E. 2960  
 Mbawa, E. H. 3394, 4511  
 Mecham, D. K. 3163  
 Meddins, B. M. 2940  
 Medham, J. 1880  
 Medina, A. S. 1204, 1388, 1583



- Medkour, M. 3112, 4691  
Medvedev, S. A. 1969  
Medvedev, V. 4281  
Medvedev, Mrs. V. 4281  
Mee, J. M. L. 4614, 4615  
Meffin, P. J. 3608  
Mega, T. 747  
Meggitt, S. M. A. 89  
Megnet, R. 195  
Mehlman, C. S. 2636, 2637  
Mehta, O. P. 2754  
Mehta, R. V. 4692, 5042  
Meiers, H. G. 434  
Meijer, J. W. A. 85  
Meiller, F. 1209  
Meinard, C. 2335  
Meiris, R. B. 4195, 4798  
Meissner, G. 457, 5421  
Meissner, W. 894  
Meister, A. 2089, 2122, 2978, 5249  
Meizel, S. 2981  
Mejer, L. E. 1493  
Melby, J. C. 2731  
Melera, P. W. 2139  
Melkonian, V. 311  
Melnick, R. L. 3464  
Mel'nikov, A. S. 24, 4089, 5047  
Meloan, C. E. 647, 1149  
Meloni, S. 1391, 4795  
Meloun, B. 1299, 1611  
Mel'tser, F. R. 4422  
Meltzow, W. 1780  
Menard, J. 3647, 3966, 5148, 5418  
Mendel, A. 3128  
Mendelson, I. S. 169  
Mendez, E. 1308, 1612, 3994  
Mendez, H. C. 2413  
Mendicino, J. 727, 1032  
Mendoza, C. E. 332  
Mendyka, B. 1752  
Mengassini, A. 1786, 1787  
Menichini, G. C. 2664, 3249  
Menn, J. J. 352  
Menon, K. M. J. 732  
Menzel, H. M. 2464  
Menzel, K. 397, 884  
Menzies, I. S. 1416  
Menzorova, N. I. 2138  
Meola, J. M. 5391  
Mercanti, D. 2025  
Merciny, E. 1404  
Merkus, F. W. H. M. 944  
Merle, W. 1273  
Merolla, R. 1478  
Merrick, W. C. 2140  
Merril, C. R. 2838  
Merrit, Jr., Ch. 1414  
Merson, R. L. 4692, 5042  
Mertz, W. 702  
Merz, W. E. 984  
Mesarošová, L. 2358  
Mesecke, S. 4480  
Meselson, M. 750  
Mesicek, N. 2871  
Mesrob, B. K. 1536  
Messina, A. 5266  
Mestres, B. 4255  
Metcalf, R. L. 330  
Metcalf, S. S. 1744  
Metro, M. M. 3539  
Metwalli, O. M. 2480  
Metyšová, J. 3774  
Metzger, J. J. 3710  
Metzger, V. G. 1856  
Meunier, J. C. 713  
Meyer, A. 3122  
Meyer, E. F. 3048  
Meyer, J. S. 2730  
Meyer, K. 2653  
Meyer, R. G. 4005  
Meyer, R. R. 728  
Meyer, T. A. 170  
Meyer, T. E. 149  
Meyerhoff, G. 211  
Mezey, E. 2075  
Mgaloblishvili, M. G. 4276  
Miazaki, H. 1144  
Michaelis, A. F. 4638  
Michal, J. 2755  
Michalewsky, J. E. 2130, 4244  
Michalover, J. L. 4036  
Michalski, C. J. 1700  
Michalski, J. 4130  
Michaud, J. 276, 4333  
Michaux, A. 2934  
Michejda, J. W. 5300  
Michel, R. 1721  
Michelacci, Y. M. 3414, 3669  
Michelakis, A. M. 3651  
Michelotto, G. 1286  
Michelsens, K. 4465  
Michniewicz, J. J. 2840  
Michonska-Cebrowska, J. 4867  
Mičková, R. 3694  
Middleton, B. 4234  
Midha, K. K. 4653, 5117  
Miedziak, I. 2533  
Mielniczuk, Z. 5076  
Miet, C. 3141, 3884  
Mieure, J. P. 3551, 4150  
Migita, L. K. 3454  
Mihaesco, C. 1313  
Mihele, D. 2728  
Mikami, M. 4231, 4384

- Mikeč, F. 2792  
 Mikeš, F. 1778, 1955  
 Mikeš, O. 3750  
 Mikhailenko, A. S. 77, 3616  
 Mikhailov, I. A. 576, 3569, 5070  
 Mikichur, N. I. 4459, 4956  
 Mikke, H. 204  
 Mikolajczak, B. 822, 3841  
 Mikolanda, F. 5376  
 Miksche, G. E. 52, 54, 4116  
 Mikšik, F. 3800  
 Mikšovský, M. 3809  
 Mikuni, Y. 3439  
 Milchert, E. 577  
 Mildvan, A. S. 3484  
 Miles, R. 3659  
 Milewska, Z. 4811  
 Milgrom, E. 2396, 2676  
 Milkowska, J. 3225  
 Millar, J. A. 443  
 Millares, T. 5254  
 Millburn, P. 3845, 3846  
 Miller, A. 2209  
 Miller, B. G. 504  
 Miller, C. W. 1810  
 Miller, E. C. 167  
 Miller, E. J. 2036, 2037  
 Miller, J. A. 167  
 Miller, J. E. 1635  
 Miller, J. N. 1475, 3392  
 Miller, J. P. 2135, 4385  
 Miller, R. L. 2118  
 Miller, R. W. 769  
 Miller, V. 3553  
 Milli, V. 90  
 Millingen, M. B. 5377  
 Mills, C. 2088  
 Milovanovic, L. 1560, 4452  
 Milstein, C. 3433  
 Mimura, K. 3078  
 Minamikawa, T. 1168  
 Minato, A. 869  
 Minchev, A. D. 834  
 Mincheva, M. F. 834  
 Minchiotti, L. 5014  
 Minti, M. 1367  
 Miranda, F. 710, 1016  
 Miras-Portugal, M. T. 4704  
 Mironenko, V. F. 528  
 Mironov, G. S. 2571  
 Mironova, I. V. 1893  
 Mironova, O. F. 2598  
 Mirzayanov, V. S. 544, 5059  
 Mishchenko, L. F. 585  
 Miskarli, A. K. 1212  
 Miskov, O. 1477  
 Misra, A. L. 1431  
 Missala, I. 1794  
 Missler, K. 4038  
 Mita, K. 262  
 Mitch, W. E. 3130  
 Mitchell, R. E. J. 2098  
 Mitchell, A. 2223  
 Mitchell, Jr., J. 4634  
 Mitchell, P. D. 2369  
 Mitchell, W. M. 1290  
 Mitomi, Y. 1636  
 Mitra, G. D. 17, 1781  
 Mitrani, N. 5394  
 Mitropoulos, K. A. 2819, 3377  
 Mitsuhashi, O. 2696  
 Mittelstrass, M. 550  
 Miura, H. 4231  
 Miura, T. 1070  
 Miyabashi, T. 3665  
 Miyabayashi, T. 5229  
 Miyabo, S. 4303  
 Miyagishi, A. 505  
 Miyaji, T. 4456  
 Miyakawa, H. 1137  
 Miyake, T. 3997  
 Miyake, Y. 295, 4029  
 Miyaki, T. 1526  
 Miyamoto, M. 5371  
 Miyashita, K. 4776  
 Miyatake, T. 4858  
 Miyazaki, T. 5161, 5411  
 Miyazako, T. 5278  
 Miyazawa, Y. 1673  
 Mizinov, E. N. 1747  
 Mizon, J. 145  
 Mizrahi, L. 112  
 Mizugaki, M. 5301  
 Mizui, F. 262, 263  
 Mizuike, A. 4133  
 Mizuno, D. 1695  
 Mizuno, F. M. 2984  
 Mizuno, T. 2217  
 Mizuno, Y. 4052, 4240  
 Mizunuma, H. 1143  
 Mizusawa, K. 5209 5463,  
 Mizutani, M. 3923  
 Mlejnek, O. 336, 1164, 1769, 1789, 4635  
 Mlekusch, W. 289, 3886  
 Mlodecka, J. 2759  
 Mobarak, Z. M. 249, 1238, 1441, 2348  
 Mochida, E. 1873  
 Mochinaga, S. 5003  
 Mód, L. 2745  
 Modin, R. 1843  
 Modrzejewski, F. 4369  
 Mody, E. 1581, 1968, 4342  
 Moe, H. K. 2553  
 Moeckel, H. 2885

- Möhrle, H. 2850, 2851, 3922, 4892, 4893, 4895  
Möllby, R. 3972, 4237  
Möllmann, H. 1484  
Moersler, B. 144  
Moffat, A. C. 2859, 5107, 5269, 5382  
Moffat, J. D. 4108  
Mogilevskaya, M. P. 2563  
Mohite, R. B. 211  
Mohri, H. 4009  
Moir, M. 3896  
Moiseev, V. M. 2537  
Mokady, S. 5001  
Mokeeva, R. A. 4481  
Mokrá, M. 3055  
Molander, M. 3088  
Molin, L. 1276, 4266  
Molinari, M. A. 3572  
Moll, M. 224  
Moller, P. W. 5113  
Mollica, J. A. 3778  
Molnar, J. 377  
Molotkovskii, Yu. G. 3887  
Molozhanova, E. G. 921  
Molyneux, R. J. 3149  
Monahan, J. J. 1705, 2150  
Monahan, M. W. 4382  
Monastyrskaya, G. S. 4882  
Monckton, R. P. 4763  
Mondain, J. 4918  
Monforte, J. 294  
Montanaro, M. 4644, 4649  
Montfort, M.-F. 132  
Monti, S. A. 2155  
Montreuil, J. 229, 233, 810  
Moon, H.-M. 789  
Mooney, C. L. 3879  
Moore, G. 3608  
Moore, S. 2041  
Moorjani, S. 3274  
Moraiwaki, C. 1606  
Mordret, F. 2821, 4948  
Morel, C. 703, 782, 1009, 1343, 1701, 2736  
Morel, C. M. 4061  
Morela, M. J. 4097  
Moreno, J. 3247  
Moreno Dalmau, J. 838  
Moretti, G. 1270, 1988  
Moretti, J. 115, 390  
Morfin, R. F. 4364, 5084  
Morgan, J. 1058  
Morgan, P. H. 1936  
Mori, C. 1144  
Mori, I. 1712  
Mori, M. 4370  
Moriizumi, S. 2177  
Morikawa, H. 4747  
Morioka, S. 3233  
Morishima, H. 5364  
Morishita, F. 1138  
Morisi, G. 129  
Morita, H. 188  
Morita, M. 3889  
Morita, Y. 1152  
Morita, Y. 2302  
Moriwaki, C. 2916  
Moriya, H. 1606  
Moriya, N. 4985  
Morkin, E. 4010, 5434  
Morley, C. G. D. 2056  
Morlin, Z. 2269  
Morodomi, K. 1902  
Morot-Gaudry, J. F. 4201  
Morot-Sir, F. 3961  
Morozova, N. M. 215, 1835, 2714, 4787  
Morozova, O. E. 3060  
Morozova, R. P. 3375  
Morris, D. R. 1719, 2125  
Morris, J. A. 712, 1019  
Morris, M. C. 4636  
Morris, S. J. 2141  
Morrisset, J. D. 189  
Morrisset, J. J. 3440  
Morrison, M. 1700  
Morrison, R. I. G. 116  
Morselli, P. L. 2592  
Mort, J. S. 2116  
Mortenson, L. E. 1011  
Mortlock, A. E. 1832  
Morvai-Racz, M. 2480  
Morvay, J. 3298  
Mosel, H.-D. 4347  
Mosesson, M. W. 4508  
Mosevitsky, M. I. 1693  
Mosher, D. F. 3441  
Moshinskaya, M. B. 1218, 4075  
Mosier, A. R. 3588, 3936  
Mosini, V. 1068, 2502  
Mosinska, K. 4905  
Moskophidis, M. 819  
Moskovskikh, V. V. 3568  
Moskvichev, Yu. A. 2571  
Mosnaim, A. D. 574, 847, 2303  
Moss, B. A. 2443  
Moss, G. A. 3818  
Mostecký, J. 582  
Motai, H. 2167  
Motohasni, N. 1712  
Motozato, Y. 1902, 2710  
Motycka, L. 1661  
Mouridsen, H. T. 2957  
Moustacchi, E. 2224  
Movshovich, B. L. 4512  
Mowafy, M. M. 3244

- Moya, F. 3986  
 Moyers, J. L. 4143  
 Mráz, M. 4140  
 Mrazova, M. 2815  
 Mrochek, J. E. 3183, 4762  
 Mudhiri, K. S. 3920  
 Mudry, W. L. 3045  
 Mudzhiri, K. S. 895  
 Mudzhiri, M. M. 895  
 Mücke, W. 5288, 5289  
 Muellegger, P. H. 2998  
 Mueller, B. 945, 3350  
 Mueller, G. C. 784  
 Müller, S. 3536  
 Mueller, U. 4974  
 Müller-Enoch, D. 5303  
 Müller-Stock, A. 355  
 Mueller, R. 4289  
 Muench, K. H. 4968  
 Münch, M. 2490  
 Muganlinskii, F. F. 5077  
 Muhl, J. 1954  
 Muirhead, K. A. 1400  
 Mukai, R. 1934  
 Mukherjee, H. G. 1596  
 Mukherjee, K. D. 2368  
 Mulder, C. 2844  
 Mule, S. J. 1375, 1431, 1553, 5385, 5392  
 Mulhern, S. A. 3505  
 Mullen, P. E. 2369  
 Muller, A. 3299  
 Muller, R. 3761  
 Mulligan, D. 1556  
 Mullinix, K. P. 2739  
 Mulyukova, N. Sh. 3064  
 Mumford, R. A. 3129  
 Mumma, R. O. 3933  
 Mummua, R. O. 3840  
 Mundy, D. E. 916  
 Muneyama, K. 4385  
 Muni, I. A. 595  
 Munier, R. L. 889, 890, 1599, 1600, 1903, 2214, 2310, 2311, 2720, 3816, 4702, 4853  
 Munn, E. A. 1023  
 Munoz, E. 2096  
 Munro, A. J. 2054  
 Munson, T. O. 629  
 Murachi, T. 3997  
 Murakami, F. 477, 2655, 4197  
 Murakami, K. 476, 3651  
 Muramatsu, M. 787, 4875  
 Muramatsu, T. 1479  
 Murashko, V. P. 1760  
 Murata, K. 3824  
 Murata, T. 3585  
 Muravetskii, V. A. 1782  
 Murayama, S. 2707  
 Murdick, P. W. 5091  
 Murdock, A. L. 3641  
 Murgia, E. 4267  
 Murillo, H. 4859  
 Murine, I. 4044  
 Murinov, Yu. I. 2238  
 Muromtseva, G. V. 215  
 Murphy, B. E. P. 2001, 4192  
 Murphy, G. M. 1490, 1494  
 Murphy, M. 4084  
 Murphy, M. J. 3336  
 Murphy, R. F. 158, 458, 2019  
 Murray, A. J. 2559  
 Murray, K. 2486  
 Murtaugh, P. A. 3442  
 Murthy, M. R. V. 5267  
 Mushak, P. 4623  
 Mussche, R. 858  
 Mustafin, U. Zh. 2457  
 Musty, P. R. 5227  
 Muth, J. P. 4556  
 Muthiah, P. 117  
 Muto, A. 4453  
 Muto, G. 3642  
 Mutschler, E. 3946, 5327  
 Muusze, R. G. 2182  
 Muzychenko, G. F. 2283  
 Muzzarelli, R. A. A. 1210  
 Myers, B. D. 4027  
 Myher, J. J. 4119  
 Myslyuk, A. M. 1074  
 Myszkowski, J. 577  
 Myulberg, A. A. 511, 1702

## N

- Nabivach, V. M. 575  
 Nabiev, N. I. 572  
 Nachbar, M. S. 3652  
 Nader, H. B. 5405, 5407  
 Nadirov, N. K. 1465, 4413, 4837  
 Nadtochaya, O. G. 922  
 Nag, S. P. 1596  
 Nagabhushanam, A. 4039  
 Nagai, F. 1663, 2106  
 Nagai, T. 3076, 3079  
 Nagai, Y. 1580, 2168, 2872  
 Nagahama, N. 5367  
 Nagakura, M. 3858  
 Nagano, H. 2920  
 Nagar, P. K. 2703  
 Nagasawa, S. 5190  
 Nagase, Y. 3301  
 Nagatsu, T. 5197, 5453  
 Nagawa, S. 5447  
 Nagayoshi, H. 928, 4776

- Nagel, S. 4449  
 Nagels, J. 5369  
 Nagler, L. G. 1649  
 Nagy, S. 290, 1145, 1990  
 Nair, M. R. 2441  
 Naithani, V. K. 980  
 Naito, H. K. 380, 2422, 2497, 4993  
 Naito, K. 3019  
 Naito, T. 1526  
 Naizer, Ya. 5093  
 Najjar, V. A. 1290, 1291  
 Nakagawa, S. 1526  
 Nakagawa, T. 56, 1776  
 Nakai, T. 4343  
 Nakajima, N. 2176, 5209, 5463  
 Nakajima, T. 300, 301, 2220, 2935, 3154, 3380, 3751  
 Nakamura, M. 1325  
 Nakamura, S. 1933, 2177, 3123, 4494  
 Nakanishi, Y. 5160  
 Nakano, G. 5197, 5453  
 Nakano, K. 1706  
 Nakano, Y. 3312  
 Nakao, M. 1663, 2106  
 Nakao, T. 1663, 2106  
 Nakasato, S. 3078, 3079  
 Nakatani, M. 1458  
 Nakayama, H. 522  
 Nakayama, T. 301  
 Nakazato, H. 1683  
 Nakazawa, T. 2691  
 Nalbone, G. 4729  
 Nalepa, H. 551  
 Nambudiri, A. M. D. 5198  
 Nametkin, N. S. 5032  
 Nanba, I. 4985  
 Nand, S. 5124  
 Nanno, S. 2656  
 Naoi, Y. 1362, 1468  
 Naora, H. 4763  
 Napias, C. 283  
 Narahashi, Y. 2107  
 Narang, S. 5454  
 Narang, S. A. 2840  
 Narasimhachari, N. 3105, 3334, 3337, 4869  
 Narayanan, A. S. 5182, 5435  
 Narbutt-Mering, A. B. 1998, 3363  
 Nartsov, A. A. 1946  
 Naruse, M. 1826  
 Nascutiu, T. 1447  
 Naskalski, J. W. 171  
 Naslin, L. 498, 1024  
 Nassar, F. 2345  
 Nasybullina, R. K. 380  
 Natake, M. 2941  
 Natherová, L. 5250  
 Natusch, D. F. S. 4085  
 Naudet, M. 3276, 3880  
 Nauman, C. D. 2545  
 Naumova, L. P. 4459, 4956  
 Naumova, V. I. 3001  
 Naumski, R. 4983  
 Navarro, S. 938  
 Nayar, K. K. 435  
 Naylor, J. L. 2547  
 Nayyar, R. 3982  
 Nazarov, V. G. 4112  
 Nazarova, D. V. 2538  
 Nazarova, L. I. 3549  
 Nazzaro Porro, M. 2796  
 Neal, J. A. 4280  
 Neal, J. M. 310  
 Neamtui, I. 1519  
 Nečasová, M. 1098  
 Nechaeva, L. A. 3594  
 Nedeá, M. E. 4357  
 Neeb, R. 614  
 Neef, B. 1401  
 Neelin, J. M. 2065  
 Neff, W. E. 3550  
 Negishi, K. 3836  
 Negishi, M. 3079  
 Negro, E. 4436  
 Neicheril, J. C. 595  
 Neidlein, R. 4348  
 Neilands, J. B. 2000  
 Neiman, Z. 3835  
 Nelson, D. J. 4246  
 Nelson, D. R. 5208  
 Nelson, G. J. 2420  
 Nelson, J. 3307  
 Nelson, J. J. 1413  
 Němeček, O. 4804  
 Nemets, S. M. 5372  
 Nemodruk, A. A. 3001  
 Nenashev, V. P. 223  
 Nen'ko, N. L. 2283  
 Nerenberg, S. T. 381  
 Nesterenko, G. N. 3601  
 Nesterin, M. F. 3146, 4362, 4363  
 Nesterova, I. P. 3882  
 Nesheim, S. 1469, 1470, 4329  
 Nestler, F. H. M. 4658  
 Nétien, G. 3819  
 Neuberger, A. 111, 4162, 4198  
 Neu-Fischer, M. 3370  
 Neuhoff, V. 4480, 5305  
 Neujahr, H. Y. 720, 1025, 2834  
 Neuner-Jehle, N. 1754, 4577  
 Neupert, W. 1721  
 Neurath, H. 1324, 1936  
 Neuwirt, J. 3167  
 Neuzil, E. 4306  
 Nevenzel, J. C. 3287

- Nevin, A. 1368  
 Newkome, G. R. 4619  
 Newton, A. A. 2740  
 Neylan, D. 3604  
 Nezavibat'ko, V. N. 200  
 Ng, D. O. K. 2470  
 Ng, H. 3163  
 Ng, W. G. 3504  
 Nga Ho-Duc 212  
 Nguyen-Distéche, M. 4186  
 Nguyen Hoang Yen 378  
 Nibbelink, D. W. 3157  
 Nibbering, N. M. M. 1170  
 Nichikova, P. R. 4121  
 Nichol, L. W. 89, 3116  
 Nicholas, D. J. D. 2927  
 Nicholas, H. J. 4323  
 Nicholls, D. M. 3636  
 Nicholls, P. J. 1821  
 Nicholls, P. W. 297, 3090, 3311, 5337  
 Nichols, J. L. 3512, 3912  
 Nickel, H. 5072  
 Nickerson, M. A. 2449  
 Nickless, G. 1520, 4132, 5227  
 Nickolson, V. J. 4522  
 Nicol, M. Z. 4201  
 Nicollier-Bonte, M. 2390  
 Nicot, C. 3381  
 Niebuhr, R. 474  
 Niedel, J. 2466  
 Niederland, T. R. 1426, 2670  
 Nielsen, H. 5233, 5310  
 Nielsen, P. 3843  
 Nieto, A. 3986  
 Nifant'ev, E. E. 4813  
 Nihongi, T. 3076  
 Niida, T. 1525  
 Niitsu, Y. 3978, 4017, 4018, 4228  
 Nikelly, J. G. 1099, 3020, 5048  
 Nikezić, G. 2066  
 Nikitin, E. G. 1770  
 Nikitin, M. K. 4786  
 Nikitin, Yu. S. 1891, 2238  
 Nikitina, N. S. 1729, 3016  
 Nikitina, T. V. 2520, 2526  
 Nikolaev, N. I. 6  
 Nikolenko, L. N. 200  
 Nikolov, R. N. 3561, 4574  
 Nikol'skaya, N. N. 5265  
 Nikol'skii, V. A. 2543  
 Nikonorov, E. M. 3549  
 Nikonov, B. A. 5064  
 Nikonova, V. Ya. 1180  
 Nikulina, L. F. 3887  
 Nikulina, N. P. 612  
 Niku-Paavola, M.-L. 3382  
 Niles, E. G. 2467, 2689  
 Nilius, R. 1665  
 Nilsson, E. 2952  
 Nilsson, O. 5140  
 Nimni, M. E. 2060  
 Nin'o, N. 4923  
 Nishihara, H. 159, 459  
 Nishikaji, T. 94  
 Nishikawa, A. H. 137  
 Nishikaze, O. 4164, 5410  
 Nishimune, T. 3973, 4222  
 Nishimura, S. 4282, 5221, 5345  
 Nishino, M. 3237  
 Nishioka, K. 1290, 1291  
 Nishizawa, Y. 2167  
 Niwa, S. 3497  
 Nizker, I. L. 3094  
 Noda, H. 439  
 Noda, K. 2107  
 Noel, J. P. 224  
 Noguchi, T. 3237  
 Noji, M. 2830  
 Nola, E. 3401, 3726, 4716  
 Noll, B. W. 2662  
 Noloan, K. N. 2019  
 Nolte, K. D. 2286  
 Noltmann, E. A. 4051  
 Nomuimi, N. 2343  
 Nomura, A. 1152, 2302  
 Nomura, M. 1677, 1678  
 Nonhebel, D. C. 574, 847  
 Nonnet, M. 3962  
 Noodén, L. D. 1312  
 Noohan, J. S. 5091  
 Noonan, J. 3602  
 Nordby, H. E. 290, 1145, 1990  
 Norden, A. G. W. 4184, 4535  
 Nordén, N. E. 5244  
 Nordling, S. 2503  
 Nordshow, C. D. 2496, 2953  
 Nordwig, A. 746, 748, 1042  
 Norén, O. 4756, 5020, 5023  
 Norheim, G. 5118  
 Norimasa, Y. 4673  
 Norkrans, B. 2565  
 Norman, A. W. 3775  
 Norman, G. A. 5347  
 Norpoth, K. 2820, 3366, 4924  
 Norris, D. M. 2459  
 Norseyev, Yu. V. 2558  
 Norvaisiene, J. 455  
 Nose, N. 648  
 Nota, G. 2599  
 Novacek, V. M. 2262  
 Novack, J. M. 302  
 Novák, J. 7, 2506, 2510, 4596, 4650  
 Novák, J. J. K. 775  
 Novak, L. 2171, 2708

- Novák, P. 3686  
 Novaković, M. B. 1339  
 Novakovskii, E. M. 2527  
 Novikov, V. F. 3061  
 Novikova, K. F. 4422  
 Novosel, B. 1844  
 Novoselov, V. S. 3568  
 Novotel'nov, N. V. 3271  
 Novotný, J. 3817  
 Novotný, M. 1211, 1904, 2521, 3035  
 Novruzova, S. Yu. 572  
 Nowacka-Barczyk, K. 4836  
 Nowaczynski, W. 4301  
 Nowak, J. 4500  
 Nowakowska, Z. 4845, 5294  
 Nowicka, E. 143  
 Nowicki, T. W. 625, 626  
 Noyes, B. E. 2038, 2076, 2921  
 Nozaki, H. 3132  
 Nozari, M. S. 1399  
 Nozdrev, V. F. 38  
 Ntukogu, A. O. 1744  
 Nucci, R. 2082  
 Nugteren, D. H. 4349  
 Nuhn, P. 3876  
 Numata, K. 4409  
 Nummi, M. 3382  
 Nunnemann, F. 1755  
 Nuridsány, M. 412  
 Nurse, G. R. 740  
 Nussbaum, A. L. 2227, 4244  
 Nussbaum, J. L. 5415  
 Nyaku, N. Y. 2341  
 Nyireddy, Jr., Sz. 535  
 Nystrom, E. 1980
- O**
- Oakden, K. M. 506  
 Oakley, D. G. 671  
 Oates, J. 4640  
 Oates, J. A. 3557  
 Obata, K. 5126  
 Ob'edkova, L. V. 2571  
 Objeski, J. F. 994  
 Obinata, M. 1695  
 O'Brien, J. S. 4184  
 O'Brien, J. S. O. 4533  
 O'Brien, W. E. 721, 1026  
 O'Brodovich, H. 926  
 Obtemperanskaya, S. I. 3095  
 Ocelka, P. 2597  
 Ochab, S. 1066, 2491  
 Ochiai, H. 420  
 Ochoa, S. 711, 1017  
 Ockenfels, H. 2285, 2594  
 O'Connell, A. W. 3546  
 O'Connor, J. D. 5414  
 O'Cuinn, G. 3736  
 Oda, T. 3447, 5424  
 O'Dell, B. L. 5150, 5452  
 Odell, V. 4740  
 Odham, G. 2565  
 Odinets, M. P. 3106  
 Odom, O. W. 766, 788  
 Odwyer, E. M. 3507  
 Oegema, T. R. 5159, 5409  
 Oehme, P. 1975  
 Oelschläger, H. 4932  
 Oerskov, H. 649  
 Oertli, C. 4580  
 Östberg, L. 2058  
 Oesterheld, G. 2161, 3100  
 Ötvös, I. 45  
 Oganesyan, S. B. 1561  
 Ogata, K. 1361, 4044, 5262  
 Ogawa, H. 1362, 1468  
 Ogawa, K. 183, 486  
 Ogawa, T. 2178  
 Ogino, S. 797  
 Ogiso, T. 869, 2114, 4971  
 Ogita, Z. 2435  
 Ogiwara, Y. 2954  
 Oglobina, O. G. 1300  
 Ogloblina, I. P. 1110, 1770  
 O'Gorman, P. 4045  
 Ogorodnik, V. L. 11  
 Oguma, K. 3373, 3853, 4784  
 Ogura, Y. 4737  
 Oguri, K. 3676  
 Oh, S. K. 2039, 5176  
 Ohashi, S. 1407  
 Ohashi, Z. 5221  
 Ohba, Y. 4952  
 Ohkawa, I. 460  
 Ohki, S. 3278  
 Ohkuma, K. 1526  
 Ohkuma, S. 2219  
 Ohlson, K. 1943  
 Ohlsson, K. 1664, 3653, 5021  
 Ohnishi, E. 5194, 5449  
 Ohno, T. 1824, 1826  
 Ohnoki, S. 1636  
 Ohsaka, A. 4030, 5154, 5406  
 Ohshima, Y. 1698  
 Ohta, T. 4343  
 Ohtsuka, E. 3233, 3278  
 Ohya, K. 5333  
 Okada, H. 108  
 Okamura, J. P. 524  
 Okawa, Y. 492, 755  
 Okazaki, R. 4309, 4755  
 Oki, T. 4409

- Oktay, S. 1584  
Okubo, T. 3201  
Okuchi, M. 4410  
Okuda, H. 2108, 5367  
Okuda, S. 809, 3214  
Okude, M. 2057  
Okumoto, T. 1818  
Okumura, T. 268, 487, 749, 832, 1457, 1458,  
2263-2265, 3259, 3864, 3865  
Okuno, T. 2331  
Okuyama, T. 493  
Olavarria, J. M. 2725  
Olberg, H. 5378  
O'Leary, R. 2889  
Oleinikova, T. Ya. 5075  
Olesen, H. 154, 454  
Oleshko, G. I. 4920  
Olive, B. M. 1533  
Olivo, J. 661  
Olney, C. E. 2581  
Oloffs, P. C. 619  
Olsen, B. R. 722, 999, 1027  
Olsen, K. W. 5147  
Olsen, M. W. 2437  
Olsen, R. W. 713  
Ol'shanova, K. M. 215, 1835, 2714, 4787  
Olsnes, S. 689, 985, 3164  
Olson, A. C. 4966  
Olson, M. O. J. 2962  
Olson, R. E. 3440  
Olsson, I. 1664, 5021  
Olsson, O. 2806  
Olszańska, B. 5025  
Omarkulova, G. O. 4816  
Omel'chenko, M. G. 222  
Ondarza, R. N. 4967  
O'Neill, B. 32  
Oniciu, L. 2240  
Onishi, Y. 668, 1408, 2010  
Ono, H. 1843, 4683  
Ono, M. 3917  
Onodera, K. 1577  
Oomura, Y. 1137  
Oosthuizen, M. M. J. 2793  
Oppenheim, J. D. 488, 3652  
Oppolzer, W. 3839  
Oprea, Sp. 213  
Oréans, M. 3552  
Orekhovich, N. V. 739, 1041  
Orlikowska, H. 2300, 4867  
Orlova, V. I. 905  
Orlowski, M. 2089, 2978  
Oroszlan, S. 1506  
Orr, J. C. 594, 2292  
Orr, W. 4476  
Orrenius, S. 3814  
Orrick, L. R. 2962  
Orth, H. 4236, 4516  
Orth, R. A. 2430  
Ortiz, J. M. 1657  
Ortner, H. M. 2193, 5234  
Ortuglio, C. 4590  
Ory, R. L. 2427  
Osafune, E. 4428  
Osawa, G. 2498  
Osawa, T. 1963, 2407, 3984, 4190, 4710  
Osborne, B. G. 5380  
Osborne, W. R. A. 2922, 3176  
Oscik, J. 833, 2247  
Osenholts, M. 1346  
Oshida, K. 1535  
Oshima, G. 3380, 3751  
Osiewicz, R. 5108  
Osipov, O. B. 3094  
Osipova, T. A. 1608, 2032  
Oskaja, V. 816  
Osokin, N. I. 2904  
Osseo-Asare, K. 4544  
Ossicini, L. 358  
Ossiogu, I. U. W. 2360  
Ostapenko, E. G. 611  
Oster, H. 98, 99, 1223, 4674  
Osterman, J. 2468  
Osterroht, C. 2207  
Ostojić, N. 4568  
Ostrovskii, D. N. 1616  
O'Sullivan, S. A. 3383  
O'Sullivan, W. J. 5427  
Oswiecimska, M. 2724  
Ota, S. 484, 1217  
Otaka, T. 3776  
Otaka, Y. 1215  
Otilio, N. F. 2640  
Otocka, E. P. 337, 4675  
Otsuka, K. 4350  
Ottesen, B. V. 3145, 4362  
Ottinger, W. E. 5204, 5456  
Otto, B. 473, 733  
Otto, L. 1665  
Ouano, A. C. 4160  
Ovádi, J. 412  
Ovcharenko, G. A. 2537  
Ovchinnikov, A. V. 4142  
Overholser, K. A. 4556  
Overkamp, M. 4468  
Owen, J. M. 269  
Oxford, G. S. 2473  
Oyama, V. I. 4427  
Ozaki, H. 5205  
Ozawa, J. 1966  
Ozbun, J. L. 5205  
Ozerova, S. N. 4837



## P

- Pacáková, V. 1741, 3553  
 Pace, J. L. 5469  
 Pačes, V. 230  
 Packer, L. 3464  
 Paczek, K. 5362  
 Paddock, G. 3325, 3517  
 Paderina, F. P. 215  
 Padieu, P. 1181  
 Padmanabhan, G. R. 3778  
 Päärt, E. 3671  
 Pagé, M. 1935  
 Page, R. C. 5182, 5435  
 Pagliai, V. 1410  
 Pajdak, W. 3409  
 Pak, S. J. 3403  
 Pakhomov, V. P. 2572  
 Pakhomova, D. P. 3194, 4416  
 Pakhomova, V. I. 3037  
 Palamand, S. R. 3150  
 Palamarchuk, N. A. 3594  
 Palau, J. 3721  
 Palekar, A. G. 2122  
 Paletta, B. 289, 3886  
 Palikhov, N. A. 3025  
 Pallady, P. H. 120  
 Pallavicini, C. 3487, 3740  
 Pallesi, B. 207  
 Pallini, V. 4745  
 Palmer, E. L. 994  
 Palmer, F. B. St. C. 3688  
 Palmer, J. K. 4728  
 Palmieri, R. 3480  
 Palmiter, R. D. 5477  
 Palo, J. 2493, 5297  
 Palombari, R. 2599  
 Palyanova, M. V. 33  
 Pályi, G. 45  
 Palyza, V. 100  
 Pan, S. C. 244  
 Panalaks, T. 61  
 Panari, G. 2779, 3434, 3716  
 Panayotatos, N. 3825  
 Pancheva, R. 3314  
 Pangburn, M. K. 1936  
 Panina, L. I. 2530  
 Panina, M. A. 517  
 Pankov, A. G. 4557  
 Pankov, Yu. A. 1246, 1608, 2032  
 Pankow, M. 772  
 Pankratova, I. V. 3375  
 Pannel, R. 4191  
 Pannel, R. N. 5460  
 Panos, C. 1594  
 Panov, A. M. 538  
 Panova, D. 834  
 Pantaloni, D. 1646  
 Panusz, H. 4811  
 Papa, L. J. 1239  
 Papaconstantinou, J. 201, 510  
 Papin, J. P. 898, 2320  
 Pappatheodorou, S. 3574  
 Papsueva, V. P. 3620  
 Paquette, Y. 1696  
 Parameswaran, R. 1537  
 Pardoe, G. I. 1975, 3981  
 Parfenov, A. I. 4417  
 Parfenov, A. P. 4451  
 Parfenov, V. N. 1800  
 Parikh, I. 3401, 3726, 4175, 4716  
 Paris, J. E. 3649  
 Paris, M. 2884  
 Paris, M. R. 4439  
 Paris, R. 4887  
 Parish, J. H. 2372  
 Park, J. L. 4521, 4523  
 Park, K. H. 461, 4851  
 Parker, C. 5393  
 Parker, J. C. 305  
 Parker, M. C. 1925  
 Parker, R. 1214  
 Parks, Ch. 2397  
 Parks, Jr., R. E. 1328, 2397, 2697, 4760  
 Parks, W. P. 1341  
 Parliment, T. H. 3036  
 Parr, W. 1211  
 Parris, D. 2063  
 Parrish, J. R. 2586, 5143  
 Parry, G. 4344  
 Parsons, A. L. 2945  
 Pascal, C. 3343  
 Pascher, I. 3286  
 Pasciak, J. 3870  
 Pašek, J. 566  
 Paselk, R. A. 2018  
 Paskhina, T. S. 692  
 Pasricha, J. S. 2442  
 Pass, L. 4185  
 Passeron, S. 725  
 Passi, S. 2796  
 Pasternak, E. 5357  
 Pasternak, G. W. 1277  
 Pastorelli, L. 4588  
 Pastuska, G. 2766  
 Patel, N. 3516  
 Patel, S. 4045  
 Patey, A. L. 4479  
 Patil, N. B. 1973  
 Patrashku, F. I. 923, 4318  
 Patrito, L. C. 4490  
 Patrycy, K. 4864  
 Patsakova, V. 25  
 Patterson, J. C. 3823, 4600

- Patterson, L. 5142  
Paukovits, W. R. 2835  
Paul, B. 3230  
Paul, J. 2845  
Paulose, M. M. 2807  
Paulsch, W. E. 4327  
Paulus, E. 3828  
Paulus, H. 2095  
Pauschmann, H. 1755  
Pavelescu, E. 4357  
Pavić, D. 2066  
Pavličková, L. 3684  
Pavlik, J. W. 308  
Pavlova, I. 1446, 3855  
Pawelczyk, E. 3844  
Pawlowski, L. 1224, 1839, 2634, 4676  
Payne, C. C. 3185  
Payne, G. D. 4158  
Pearce, J. B. 2547  
Pearson, E. F. 1817  
Pease, E. C. 2528  
Pease, H. D. 2704  
Pease, H. L. 4775  
Pechet, L. 4964  
Pechová, H. 3218  
Pecka, J. 5157  
Pecsar, R. E. 1830, 3014, 4569  
Peczon, B. 4740  
Pedinazzi, R. C. 448  
Pedrini, V. 113  
Pedroza, G. C. 120  
Peeters, H. 860  
Peeters, T. L. 2836  
Peetre, I.-B. 2548, 5096, 5097  
Peisker, K. 2241  
Pekic, B. 3148  
Peleg, E. 1420  
Pellerin, F. 2349, 4371  
Pellerin, V. 946  
Pelliccioni, M. 1381, 1382  
Pellissier, C. 4918  
Pelster, D. R. 3557  
Peltier, M. 4887  
Peltz, R. 1684  
Pende, B. 4205  
Penketh, G. E. 2517  
Penneys, N. S. 4968  
Penny, I. F. 998  
Pensky, J. 1631  
Penzias, G. J. 20, 4093  
Peoples, A. 5098  
Peoples, A. J. 2578  
Pepe, G. 1718  
Pequignot, J. M. 665  
Peraino, C. 3974, 4239  
Perdih, A. 4319  
Perdomo, J. M. 4984  
Pereira, W. E. 1505  
Perevezentseva, O. V. 4142  
Pergal, M. 3913  
Perham, R. N. 413, 3227  
Perini, F. 2225, 3229  
Perišić-Janjić, N. U. 849  
Perkins, E. G. 3142, 3595  
Perkins, H. R. 4186  
Permilovskaya, Z. V. 3826  
Pero, R. W. 638  
Perpar, M. 2871  
Perret, F. 2781  
Perrett, R. H. 599, 610  
Perrie, W. T. 4011  
Perrier, C. 2436, 2677  
Perrier, H. 2436, 2677  
Perry, J. A. 2266  
Perry, M. B. 3579  
Perry, S. G. 1838, 2761, 4677  
Perry, S. V. 136, 414, 4011, 4467  
Persico, F. J. 3736  
Persinger, H. E. 553  
Persson, U. 2955  
Pertaya, A. V. 5008  
Pertoft, H. 2058  
Pertoldi Marletta, G. 80, 2370  
Pertot, E. 814, 1418  
Pertsovskii, A. L. 5100  
Peruanskii, Yu. V. 421  
Pery, P. 3710  
Pesakhovich, L. V. 4483  
Pescic, M. B. 892  
Pesquiés, P. 5148, 5418  
Petcoff, D. G. 2267, 3866  
Petcovici, M. 237  
Peter, C. 3711  
Peter, H. W. 2289, 2410  
Peter, R. 3711  
Peters, H. 4289  
Peters, J. E. 1665  
Peters, Jr., T. 2644  
Peters, W. H. 2184, 3371  
Peterson, H. 5351  
Peterson, J. I. 4463  
Peterson, P. A. 2058, 3989  
Pettheo, G. 690  
Petit, J. 2999  
Petitclerc, T. 4562  
Petkau, A. 2861  
Petkovic, M. 3333  
Petro-Turza, M. 3341  
Petrov, A. A. 3060, 5068, 5069  
Petrova, T. M. 2336  
Petrovic, J. 2248  
Petrović, J. S. 1339  
Petrovic, S. 2248  
Petrovič, S. L. 1339

- Petrovich, C. A. 3827  
Petrovich, G. 3129  
Petrowski, G. E. 3109  
Petrzilka, T. 2880, 2881, 5383  
Petsev, N. 5049  
Pettersson, B. 4979  
Pettersson, S. 102  
Petti, L. 1478  
Petzold, H. 2972  
Peyrin, L. 665  
Peyronel, G. 2235  
Pezzotti, E. 636  
Pfadenhauer, E. H. 1333, 5145  
Pfaender, P. 672, 792  
Pfaffenberger, C. D. 1139, 5082  
Pfandl, A. 4440  
Pfeifer, S. 3307  
Pfenning, N. 5024  
Pfeuti, Ch. 2748  
Pfleiderer, G. 4753, 5017  
Philip, H. G. 622  
Philip, T. 4912  
Philipp, B. J. 3045  
Philips, C. S. G. 2615  
Philips, S. T. 2299  
Phillips, C. S. G. 4076, 5057  
Phillips, D. V. 4598  
Phillips, G. B. 3985, 4994  
Phillips, M. C. 5170  
Phillips, M. L. 3985  
Phillips, M. 2437  
Pianezzola, E. 954  
Piatigorsky, J. 514  
Picart, D. 4364, 5084  
Pichard, A.-L. 3494  
Pichinoty, F. 3964  
Pichon, P. 3819  
Pick, P. 1128  
Pickett, J. 374  
Pickett, J. A. 1334  
Piekacz, H. 338  
Pielichowski, J. 5356, 5357  
Pierce, J. G. 3424, 3706  
Pierce, J. V. 2642  
Pierrou, L. 537  
Pietrogrande, M. 3420  
Pietrowiak, H. 577  
Pietrzak, L. 2373  
Pietrzyk, D. J. 3663, 4304  
Pifferi, P. G. 4719  
Pigarevsky, V. E. 4493  
Pihera, P. 4730, 4861  
Pihl, A. 689, 985, 3164  
Pikler, G. M. 1278  
Pilgrim, G. W. 545  
Pilipenko, A. T. 1840, 4678  
Pillay, V. K. G. 2960, 4511  
Pinder, J. C. 5479  
Pinkerton, T. C. 3325, 3517  
Pinkus, J. L. 1496  
Pinset-Harstrom, I. 4224  
Pinto, O. 2109  
Pinto, O. P. R. 4238  
Piotrovskii, S. V. 3365  
Pires, M. T. 5009  
Pirogova, Yu. I. 1123, 1124, 2540  
Pisano, J. J. 301  
Pis'mennaya, M. V. 907, 3351  
Pistolesi, M. T. 3543  
Piszkievicz, D. 2040  
Pitkänen, E. 2726  
Pitot, H. C. 1053, 4025  
Pitt, Jr., W. W. 1227, 1377  
Pittner, F. 4712  
Pitzel, S. 5179  
Pivnenko, Z. A. 4837  
Pivonenkova, L. P. 63  
Pizzo, S. V. 3429, 3443  
Pizzolato, M. A. 1570  
Plá-Delfina, J. M. 838, 3247  
Planchon, B. 4809  
Plasch, G. 924  
Platt, H. S. 2907  
Plaut, J. 3105, 3337  
Plekhotkina, M. M. 1541  
Pleskov, V. M. 1036  
Pletneva, T. A. 5352  
Pliml, J. 4828  
Plimmer, J. R. 877  
Plumier-Vandenbussche, D. 5369  
Plummer, D. T. 4535  
Po, P. 1516  
Pocchiari, F. 2947  
Podkowinska, H. 894  
Pod'racheva, G. M. 3027  
Poenaru, L. 489  
Poet, R. B. 2713  
Poglazov, A. F. 4245  
Pohl, H. U. 1369  
Pohlandt, C. 216, 1402, 4283  
Poiesz, B. J. 4969  
Pokorný, J. 2658, 2822, 3812  
Pokorny, M. 4983  
Pokorný, S. 2822, 3812, 4346, 4770  
Pokrić, B. 1713  
Polacow, I. 4015  
Polak, J. 5130  
Polakoski, K. L. 756  
Poláková, K. 5483  
Polanský, P. 5481  
Polcaro, C. 2891  
Polesuk, J. 843, 896, 1089, 1875  
Poliaková, M. 5250  
Polievktov, M. K. 4862

- Politzer, I. R. 3120  
 Polkovnikova, A. G. 4113  
 Polkowska-Motrenko, H. 4788  
 Pollard, H. B. 3752, 4050  
 Pollard, T. D. 3399, 3448, 3719, 3720, 4513  
 Pollino, G. 3779  
 Pollitt, R. J. 2493  
 Pollock, J. J. 4186  
 Pollow, B. 5319  
 Pollow, K. 5319  
 Polonskaya, F. I. 3935  
 Polotebnova, N. A. 2236  
 Poluboyarinova, I. R. 4423  
 Poludnikiewicz, W. 2298  
 Polverelli, M. 4450  
 Polyakova, A. A. 47  
 Polyakova, V. N. 925  
 Polzhenko, T. G. 1384  
 Pomazanov, V. V. 3011  
 Pomerants, L. I. 1218  
 Pommier, C. 2573  
 Pomogats, E. 826  
 Ponce de Leon, M. 4713  
 Poncet, J. 2781  
 Pong, S.-S. 2090  
 Poňka, P. 3167  
 Ponomarev, A. M. 4617  
 Pontani, R. B. 1431  
 Poon, L. S. 5314  
 Popa, I. 3346  
 Popa, L. M. 1724  
 Popiel, W. J. 387, 2929  
 Popl, M. 582  
 Popov, P. V. 3354  
 Popov, Yu. N. 538, 5094  
 Popova, N. I. 1833  
 Popovic, R. 4437  
 Popp, R. A. 135  
 Poppe, H. 1191, 3635  
 Pop-Stefanova, A. 859  
 Porath, J. 2639, 3124, 5153  
 Porges, M. 897  
 Porter, J. 1817  
 Porter, J. W. 874, 2166  
 Porter, M. L. 2705  
 Porter, R. S. 1848, 2605  
 Portnova, T. A. 538  
 Portnova, T. V. 5094  
 Pospíšil, J. 4797  
 Pospíšilová, K. 3222, 3223  
 Possanzini, M. 2570, 2848, 3032, 3054, 3262  
 Post, R. L. 5421  
 Posta, S. 217, 4690  
 Postma, T. 2979, 4046  
 Postnov, V. V. 576, 3569, 5070  
 Poteeva, L. A. 3273  
 Potgieter, D. J. J. 2793  
 Potier, M. 2110  
 Potter, J. J. 2075  
 Potter, M. 3389  
 Potter, V. R. 3485  
 Potthast, H. 4173  
 Potthast, K. 4386, 5311  
 Pottie, R. F. 586  
 Potvin, M. 359  
 Pouit, L. 2965  
 Poulsen, K. 3909  
 Poulson, R. 1685  
 Pound, N. J. 1987, 4781  
 Pound, T. C. 1260  
 Pourveur, A. 4340  
 Pouzar, V. 3698  
 Pozetti, G. L. 2826  
 Pozzi, F. 1410  
 Prabhakararao, K. 2470  
 Prabhu, V. K. K. 435  
 Prachařová, M. 3630  
 Prat, M. 3657  
 Preddie, D. L. 1686  
 Preddie, E. C. 1686  
 Preiser, H. 3463  
 Preiss, J. 5205  
 Prelli, F. 3994  
 Prelog, V. 3839, 3902  
 Prenzel, U. 79  
 Preobrazhenskaya, L. D. 222  
 Prescott, B. 2275  
 Prescott, J. M. 184  
 Pressey, R. 2111  
 Preston, J. F. 1305  
 Preston, R. K. 3229  
 Preston, Jr., S. T. 543, 4606  
 Pretorius, M. E. 854  
 Pretorius, V. 1876  
 Pretty, K. M. 2493  
 Preusser, E. 1722  
 Price, C. A. 1687  
 Price, H. C. 4835  
 Price, N. R. 5192  
 Price, R. P. 4515  
 Prillinger, Jr., F. 1623  
 Prilutskaya, G. V. 669  
 Primavesi, G. R. 4094  
 Prins, R. A. 4360  
 Prior, D. 116  
 Prismotrov, Yu. A. 5100  
 Přistoupil, T. I. 3813  
 Privett, O. S. 1266, 1879, 4856  
 Probst, H. 2145  
 Prochakov, V. T. 4996  
 Procházka, Ž. 667, 979, 1272, 3690  
 Prockop, D. 5184, 5437  
 Prockop, D. J. 436, 693, 694, 722, 997, 999,  
 1027, 1926

Prokhorov, V. P. 3621  
 Prokof'eva, I. V. 5265  
 Prokop, Z. 5139  
 Prokopenkov, A. A. 3762  
 Prokopová, E. 1708, 4542  
 Prokoshev, V. A. 1212  
 Pronin, A. Ya. 34  
 Proskuryakov, V. A. 41, 42, 563  
 Prosperov, S. M. 3340  
 Prosser, C. L. 2465  
 Prost, M. 1181  
 Prostenik, M. 2788  
 Protiva, J. 5164  
 Protiva, M. 3774, 3800  
 Protivová, J. 4797  
 Proulx, P. 4352, 4854  
 Proux, D. 3481  
 Prouza, Z. 1450  
 Proveaux, A. T. 59  
 Prud'homme, J. 2175  
 Prudhomme, J. C. 685  
 Prue, D. G. 1757  
 Pruess, D. L. 1504  
 Pruit, K. M. 3470  
 Prulutskaya, G. V. 885  
 Prusík, Z. 3393  
 Prusiner, S. 1658  
 Prusoff, W. H. 2687  
 Pruszyńska, E. 4145  
 Pryde, E. H. 3550  
 Prydz, H. 4023  
 Prydz, S. 3378  
 Przeslakowski, S. 1448, 4815  
 Przybyła, H. 2404  
 Przybylski, R. 31  
 Przystas, T. J. 1403  
 Pstružinová, H. 1140  
 Pszonicka, M. 1857  
 Pszonka, B. 2562  
 Ptitsyna, N. V. 5374  
 Pu H. H. 2713  
 Puca, G. A. 3401, 3726, 4716  
 Pučar, Z. 1713  
 Puchkova, E. I. 1422, 3894  
 Puech, A. 309  
 Pugh, E. L. 2808  
 Puglisi, C. V. 4137  
 Puisieux, F. 3141, 3884  
 Pullman, M. E. 2329  
 Pil'tsin, M. N. 41  
 Punger, E. 1841  
 Pungor, E. 4679  
 Purchase, I. F. H. 854, 4334  
 Purnell, J. H. 1129, 4091  
 Puschmann, H. 4399, 4796  
 Pusey, D. F. G. 4680  
 Pustil'nikova, S. D. 5069

Pusztaí, A. 140, 417, 1621  
 Pyatnitskii, M. P. 130, 2218  
 Pye, I. F. 5171  
 Pye, M. J. 101  
 Pyke, T. R. 5365  
 Pyzhova, Z. I. 4286

## Q

Qasim, S. A. 3820  
 Quaggia, S. 4496  
 Qualset, C. O. 2948  
 Quarles, R. H. 3388  
 Que Hee, S. S. 4627  
 Quentin, K.-E. 5101  
 Quesnel, V. C. 1415  
 Quick, M. P. 916  
 Quinche, J.-P. 4789  
 Quinn, J. R. 2966  
 Quisenberry, D. O. 214, 339  
 Qureshi, A. A. 874, 2166  
 Qureshi, M. 252, 644, 1449, 2237  
 Qureshi, S. Z. 644

## R

Rabel, F. M. 1213, 1452  
 Raben, M. S. 5003  
 Rabin, P. 5338  
 Rabinovich, A. S. 1767  
 Rabinowitz, J. C. 3186  
 Rachinskii, V. V. 3524, 5038  
 Rachmilewitz, D. 4990  
 Racz, G. 2843, 3915  
 Radavsky, A. Yu. 4002  
 Radchenko, V. I. 585  
 Radcliffe, R. D. 972, 3444  
 Radecka, C. 2864  
 Rader, B. R. 3197  
 Radhakrishnamurthy, B. 811, 5416  
 Radojkovic, J. 2692  
 Radovici, E. 4424  
 Radowitz, W. 4829, 5276  
 Radushkevich, L. V. 3529  
 Radzevich, N. E. 2538  
 Raesaenen, V. 1974, 2923  
 Rafalski, A. J. 2377  
 Raffi, F. 661  
 Raftery, M. A. 1318, 3491  
 Raghuvver, K. G. 3309  
 Ragland, W. L. 5469  
 Rahat, M. 4810  
 Rahimi-Laridjani, I. 2645  
 Rahman, Y. E. 3974, 4239  
 Rahn, C. H. 5295

- Rahn, P. C. 4100  
Raidovski, G. 3314  
Raikher, I. I. 1571  
Rains, S. D. 382  
Rajabalee, F. J. M. 359  
Rajaram, O. V. 714  
Rajkowski, K. M. 5320  
Rajšner, M. 3800  
Rakhimov, Kh. R. 3198  
Rakhimov, M. M. 3315  
Rakhimova, D. A. 3918  
Rakovic, M. 1450  
Rakovskii, E. E. 4943  
Rallo, F. 827, 2211  
Ram, N. S. 2584  
Ramadoss, C. S. 326  
Ramakrishna, S. 3224  
Ramaley, R. F. 2077  
Ramananda, K. 2819  
Ramaswamy, D. 1394  
Ramazanov, A. A. 3094  
Ramic, S. 4437  
Rammler, D. H. 243  
Ramsden, D. B. 2059, 2438  
Ramsteiner, K. 2515  
Ramusino, A. C. 636  
Randa, Z. 217  
Randall, C. C. 994  
Randerath, E. 2317, 2893, 3508  
Randerath, K. 2249, 2317, 2893, 3508  
Rangarajan, M. 4616  
Rao, A. L. 1314  
Rao, D. 1048  
Rao, K. S. P. B. 3418  
Rao, R. E. 2729  
Rao, T. R. 2703  
Rao, T. S. 5065  
Rao, U. N. 2751  
Rapp, A. 1977  
Rapp, P. 5361  
Rapp, U. 769  
Rashid, A. 4411  
Rask, L. 2058  
Raskas, H. J. 1688  
Rasmussen, K. E. 4642  
Rastyannikov, E. G. 1779, 2523  
Raszeja, W. 4938  
Rathore, H. S. 644  
Ratliff, R. L. 4311  
Rattay, V. 2815  
Rattazzi, M. C. 2983  
Rauchfuss, H. 976, 2014  
Raudsepp, P. 963  
Raué, H. A. 3326, 4877  
Rausch, M. D. 4250  
Ravel, J. M. 788  
Ravesten, H. J. L. 5172  
Rawat, J. 2237  
Ray, N. 2665  
Ray, R. 3602  
Ray, R. S. 5091  
Ray, S. 1156  
Raymond, A. J. 4663  
Raynaud, J. 3819  
Raynaud, M. 4022  
Rayss, J. 556, 2507  
Razin, S. 462  
R-Candela, J. L. 3986  
Read, R. A. 3905  
Rector, E. 2699  
Reddy, K. R. K. 3349  
Reddy, R. 5026  
Redfield, B. 789  
Redina, E. F. 3315  
Redwell, R. J. 4454  
Reeburgh, W. S. 5123  
Reeck, G. R. 3457  
Reed, W. D. 2075  
Reeds, J. A. 4098  
Rees, G. A. V. 1157  
Reese, D. 1952  
Refshauge, C. 2626  
Regel, W. 4878  
Regnouf, F. 5180, 5425  
Regoeczi, E. 3634  
Rehfeldt, T. K. 3627  
Rehse, K. 3919  
Reichard, D. W. 189  
Reichberg, S. B. 2692  
Reichel, L. 231  
Reichelt, J. 4391  
Reichert, R. 1014  
Reichman, U. 3835, 4812  
Reichstein, T. 3849  
Reijnders, L. 1055, 1349, 1691, 4057  
Reimendal, R. 1172  
Reimers, F. 1548  
Reinbolt, J. 3711  
Reiner, R. 2112  
Reinhold, V. 1241  
Reinišová, J. 3290  
Reinke, J. 926  
Reio, L. 4290  
Reisch, J. 1484  
Reiser, R. W. 3934  
Reiss, J. 2774, 3269  
Reissenweber, H. 2160  
Rekhter, B. A. 923  
Remizova, L. A. 669  
Remizova, L. B. 921  
Remtulla, M. A. 3407  
Remy, A. 2542  
Renault, N. 802  
Renaut, N. 4284

- Renkonen, O. 2287  
Renner, J. A. 4147  
Rennert, O. M. 780  
Rensing, U. F. E. 2487, 2488, 3234, 3327, 4879  
Rentsch, H. 3941  
Repkina, V. I. 4136  
Reske, K. 3137  
Retemar, J. A. 875  
Revel'skii, I. A. 90  
Revenkova, L. A. 4996  
Revin, Yu. V. 3613  
Revol, L. 234  
Revutskii, A. L. 2529  
Rex, A. 2865  
Reyes, F. 2398  
Reynolds, J. A. 1613, 3427  
Reynolds, P. 4186  
Reynolds, W. J. 3604  
Rezhikov, V. G. 3591  
Rezl, V. 1127  
Rezunenko, O. A. 4906  
Rheineck, A. E. 3582  
Rhoades, M. 750  
Rhone, D. P. 2984  
Ribadeau, D. B. 180  
Ribbons, D. W. 4036  
Ribereau-Gayon, P. 1842, 4681  
Ribi, E. 1214  
Ricard, L.-P. 2595  
Ricardo, Jr., M. J. 2399  
Ricci, C. 4745  
Ricciardi, A. J. 3357, 3940  
Rice, R. 1689, 2142  
Rice, T. W. 4997  
Rich, A. 4008  
Richard, B. M. 5109  
Richard, G. 328, 4415  
Richard, Mrs. 3310  
Richards, E. G. 507, 1056  
Richards, F. F. 1507, 4174  
Richards, P. 4267  
Richardson, J. M. 1490  
Richardson, N. E. 4019  
Richmond, M. E. 3678, 3679  
Richmond, W. 5314  
Rickenberg, H. V. 170  
Rickett, F. E. 2579  
Riddersma, S. H. 3195  
Ridolfi, P. 3943  
Riebellmann, G. 4449  
Riedmann, M. 18, 5122  
Rieker, A. 792  
Ries, S. K. 892  
Riess, W. 5115  
Rigbi, M. 4047  
Rijks, J. 4563  
Rijks, J. A. 2532  
Rijven, A. H. G. C. 198, 508  
Rilbe, H. 102  
Riley, J. P. 2559  
Riman, R. 3965  
Rimerman, R. A. 2476  
Rinehart, Jr., K. L. 4316  
Ringe, P. 1907  
Rinne, G. 3561  
Rios, V. M. 4851  
Rippa, M. 4466  
Risibois, B. 3859  
Ristau, W. T. 4102, 4103  
Ritchie, C. L. 3127  
Ritchie, G. A. F. 2927  
Rizk, A. M. 1238, 2348  
Rizvi, S. A. I. 4335  
Robb, D. A. 4177  
Robbins, K. C. 1942, 2910  
Robbins, R. K. 2135  
Robert, H. 3362  
Robert, J. F. 751  
Robert, R. 216  
Robert, R. V. D. 1402, 4283  
Robert-Baudouy, J. M. 2123  
Roberts, D. W. A. 3495  
Roberts, E. 2124, 2987  
Roberts, R. M. 4021  
Roberts, W. K. 2700  
Robertson, J. H. 3598, 5226  
Robertson, P. B. 2036  
Robins, R. K. 4385  
Robinson, D. 176, 482  
Robinson, H. C. 4200  
Robinson, J. W. 3540  
Robinson, N. C. 1324  
Robinson, R. 1358  
Robinson, T. 793  
Roch, M. 5120  
Rochat, H. 710, 1016  
Roche, M. 2277  
Ro-Choi, T. S. 5026  
Rochon, A. M. 2326  
Rockenbauer, M. 558  
Rodbard, B. 368  
Rodbard, D. 375, 383, 2936, 3458, 3966  
Rodchenkov, V. I. 5127  
Rodén, L. 4188  
Rodermund, O. E. 144  
Rodionova, K. F. 5034  
Rodionova, L. M. 4286  
Rodrigues, J. M. L. 4488  
Rodriguez, P. 2157  
Roe, B. 1340  
Röper, H. 4605  
Roepstorff, P. 1986  
Roerig, S. 3161  
Roesler, H. 270

- Roessler, G. 1225  
Roets, E. 3929  
Roewekamp, W. 5210, 5470  
Rogers, A. R. 4392  
Rogers, G. E. 2678  
Rogers, H. 916  
Rogers, L. B. 1744, 5136  
Roginski, E. E. 702  
Rogozhin, S. V. 2007, 4212  
Roheim, P. S. 2418  
Rohrschneider, L. 1130, 2616, 4077  
Roiz, B. V. 3009  
Rojowska, M. 4807  
Rokosova, B. 3680  
Rokushika, S. 477, 2655, 4197  
Rolland, M. 132  
Rollier, M. A. 1391, 4795  
Rollins, M. H. 5360  
Rollmann, B. 2866  
Romadane, I. 2790  
Romano, S. J. 4147  
Romanova, O. B. 2572  
Romanowska, E. 1241  
Romanus, O. 4846  
Romer, K. 2873  
Romer, T. R. 3270  
Romina, L. I. 333  
Rona, M. 2194  
Ronald, W. 2602, 2603  
Ronchi, S. 5010, 5014  
Rondags, T. M. M. 4898  
Rondelet, J. 2866  
Rondina, R. V. D. 4433  
Ronkainen, P. 1799  
Rood, J. I. 4714  
Roovers-Bollen, J. F. C. 944  
Roques, M. 3987  
Rorstad, O. 1587  
Rosahl, B. 568  
Rosato, J. 4490  
Rose, G. 2389  
Rose, R. J. 2149  
Roseira, A. N. 848  
Roseleur, O. J. 2811  
Roselino, E. 725  
Roseman, S. 2688, 2691, 3212, 3213  
Roseblatt, M. S. 3467, 3728  
Rosen, J. M. 601  
Rosenberg, H. 2812, 3291, 5149, 5402  
Rosenberg, R. D. 3400, 3654  
Rosenberg, R. N. 192  
Rosenbloom, J. 438  
Rosenfeld, I. S. 3181  
Rosenfield, S. 3970  
Rosenfield, S. A. 4475  
Rosenkranz, A. 574, 847  
Rosenkranz, H. S. 2739  
Rosenkranz, S. 2739  
Rosenthal, A. F. 844, 5312  
Rosie, D. M. 1090  
Rosin, R. 1642  
Roskoski, R. 1669  
Rosmus, J. 4665  
Ross, B. E. 4058  
Ross, G. W. 2113  
Ross, J. H. 352  
Ross, Jr., J. H. 1867  
Ross, L. F. 469  
Ross, W. D. 1106  
Rosset, R. 1192, 1840, 1847  
Rossi, A. 770  
Rosso, G. 657  
Rosso, J.-P. 3964  
Roth, J. 157  
Roth, M. 2011  
Roth, T. F. 3385  
Rothbart, H. L. 1856  
Rotolo, A. 947  
Rottem, S. 462  
Rotter, U. 4891  
Rottmann, J. 5072  
Rouayrenc, J. F. 5415  
Roubal, Z. 4804  
Roudge, A. M. 4333  
Rouffy, J. 2934  
Rouser, G. 1263  
Roushdy, M. I. 1238, 2348  
Roussel, P. 3413, 3674, 3983  
Roux, H. 5267  
Rowan, Jr., R. 2511  
Rowden, G. 1593  
Rowe, J. A. 2387  
Rowe, J. J. M. 1931  
Rowland, M. 4139  
Roy, B. R. 1013  
Royer, M. E. 4345, 5121  
Roza, M. 1485, 3975, 4232  
Rozen, A. M. 2238  
Rozenberg, G. Ya. 2050  
Rozenblit, A. B. 1949  
Rozhenko, I. N. 2531  
Rozhnov, A. M. 3065  
Rozov, N. F. 2858  
Rózylo, J. L. 2767  
Rozyrnov, B. V. 3621  
Rubenstein, B. 2421  
Rubery, E. D. 2740  
Rubin, G. M. 3328  
Rubin, M. S. 499  
Rubin, S. H. 317  
Rubinstein, D. 2421  
Rubinstein, I. 4607  
Rubino, C. L. 2826  
Ruch, F. E. 4537



- Rudas, V. I. 548  
 Rudd, B. T. 2823  
 Ruddle, F. H. 1654  
 Rudenko, B. A. 1742, 1761, 1774, 3042  
 Rudick, M. J. 3496, 3753  
 Rudinger, J. 4871, 5335  
 Rudmark, A. 3217  
 Rudnev, G. K. 585  
 Rudziński, W. 2507  
 Ruechel, R. 4480  
 Ruecker, G. 2886  
 Rueedi, P. 3896  
 Ruelius, H. W. 1169  
 Ruemmler, R. 2828  
 Ruessel, H. 1725, 3523  
 Ruessel, H. A. 2574  
 Ruff, M. D. 2456  
 Rumyantseva, N. D. 71  
 Runcan, V. 4357  
 Rundle, A. T. 1666  
 Ruoff, G. 5361  
 Ruokonen, A. 3147  
 Rupley, J. A. 3672  
 Rupp, H. 4032  
 Rusaeva, E. S. 4101  
 Rusanov, A. I. 526, 1793  
 Rusca, G. 152, 451  
 Rusch, H. P. 2139  
 Ruseva, N. 2281  
 Rush, R. A. 5199  
 Rusinov, L. A. 2649  
 Russ, G. 5483  
 Russek, W. 2749  
 Russell, A. E. 227, 2215  
 Russell, C. S. 4395  
 Russell, D. H. 4210  
 Russell, D. W. 2734  
 Russell, J. C. 2657  
 Rustum, Y. M. 1335, 1512  
 Rutzynska-Skonieczna, E. M. 204  
 Rutkowski, A. 868  
 Rutman, R. J. 3511  
 Rutten, G. A. F. M. 1792  
 Rutter, W. J. 2033, 2121  
 Ruzicka, J. H. A. 4256  
 Růžičková, J. 1161, 2506  
 Ryabchuk, L. N. 30  
 Ryabinina, T. I. 1894  
 Ryan, J. P. 2463  
 Ryan, L. D. 5200  
 Ryan, P. L. 5116  
 Ryan, W. L. 2668, 3316  
 Rybakov, F. P. 5062  
 Rybinskaya, L. N. 2719  
 Rychlík, I. 3744, 5173  
 Ryder, Jr., K. W. 1937  
 Rye, M. 154, 454  
 Ryman, B. E. 1965  
 Rzepa, J. 4117  
 Rzeszotarski, W. J. 3192  
 Rzhanitsyna, N. M. 4113
- S**
- Saad, A. I. 2859  
 Saatov, T. 2020, 2070  
 Saavedra, I. 574, 847  
 Sabbagh, N. K. 3138  
 Sabelashvili, Sh. D. 3029, 3039, 3046  
 Sabolovic, D. 4548  
 Saburova, L. A. 5366  
 Sacchi, A. 1690  
 Saccone, C. 1718  
 Sachkova, T. P. 2007, 4212  
 Sachs, L. 3419  
 Sackmauerová, M. 5373  
 Sacks, T. I. 4546  
 Sadykov, S. S. 421  
 Saechtling, H. 996  
 Saeki, S. 5429  
 Saeki, T. 470  
 Saey, J. C. 4621  
 Safaeva, F. Z. 3050  
 Šafařík, L. 639  
 Safronova, N. N. 4413  
 Sagai, M. 1650  
 Saha, N. C. 17, 1131, 1781  
 Saied, F. I. A. 2201, 2716  
 Saiki, K. 902  
 Saini, A. S. 238  
 Saintlebe, L. 4722  
 Saito, K. 1362, 1468  
 Saito, M. 1873  
 Saito, N. 752, 1044, 4534  
 Saito, S. 1554  
 Saito, T. 1651  
 Saito, Y. 2308  
 Sajgo, M. 886  
 Sakabe, K. 4755  
 Sakaeva, R. F. 4413  
 Sakaguchi, K. 492, 755  
 Sakaguchi, S. 5278  
 Sakai, T. 3447  
 Sakakibara, E. 4164, 5410  
 Sakamoto, T. 4133  
 Sakamoto, W. 4164, 5410  
 Sakamura, S. 2671, 4214  
 Sakarova, V. 2824  
 Sakharov, V. M. 1110  
 Sakhnenko, V. F. 1120, 2537  
 Sakoda, V. S. 196, 197  
 Sakodynskii, K. I. 1111, 1112, 1113, 1114,  
 1118, 1121, 1122, 1759, 1770, 2520, 2526,

- 2530, 2531, 2536, 2539, 3043, 4075  
 Sakota, N. 1396  
 Sakovskii, A. A. 646  
 Sakoyama, Y. 2435  
 Sakurazawa, M. 5367  
 Salaita, G. N. 29  
 Salaschek, M. 353  
 Salemink, C. A. 635  
 Salikova, G. E. 517, 2231  
 Salladay, D. G. 214, 339  
 Sallai, J. 2258  
 Salnikow, J. 2041  
 Salsitz, B. 4638  
 Salton, M. R. J. 488, 4186  
 Salvesen, B. 4441  
 Salzman, N. P. 3456  
 Sambrook, J. 2985  
 Samejina, T. 199  
 Samitov, Yu. Yu. 584  
 Samosvat, L. S. 1534, 2334, 3352  
 Samperi, R. 1097, 4603  
 Samuel, Ch. E. 3186  
 Samuels, A. J. 3445  
 Samuelson, O. 1967, 3671  
 Samuelsson, B. 3596  
 Samuelsson, B. E. 1261, 1482, 2801, 4857  
 Sanborn, B. M. 2690  
 Sanchez Pastor, E. 4777  
 Sandakhchiev, L. S. 4459  
 Sander, E. G. 780  
 Sanders, C. 2064  
 Sanders, H. 2304  
 Sanders, H. O. 630  
 Sanders, L. A. 1311  
 Sanderson, G. W. 3818  
 Sandford, P. A. 3856  
 Sandler, M. 67  
 Sandor, T. 2129  
 Sands, H. 170  
 Saneyoshi, M. 199  
 Sano, R. 1325, 4717  
 Sanpitak, N. 1029  
 Šantavý, F. 3770, 3771  
 Santi, W. 839, 2250  
 Santini, P. 1438  
 Santoni, B. 2573  
 Santoni, R. 1491  
 Sanwal, G. G. 2091  
 Saponara, A. G. 5256  
 Sardi, J. G. 875  
 Sardini, D. 349  
 Sargeson, A. M. 1385, 4272  
 Sari, J. C. 3374  
 Sarkar, M. K. 5124  
 Sarkar, P. 3475  
 Sas, M. 3298  
 Sasaki, M. 484, 3999, 4187, 4221, 5211, 5471  
 Sasaki, R. 734  
 Sasaki, T. 2226, 3230  
 Sasaki, Y. 734  
 Sasamoto, Y. 3079  
 Sasek, A. 1626  
 Šaška, J. 1910  
 Sass, N. L. 1359  
 Sass, S. 3772  
 Satake, K. 1636  
 Satake, M. 2804  
 Šatava, J. 1347, 4248  
 Sateva, M. 1954  
 Sato, H. 3891  
 Sato, K. 776, 4477  
 Sato, M. 5247  
 Sato, P. T. 310  
 Sato, R. 4016  
 Sato, S. 1215, 2627  
 Sato, T. 4717, 5061, 5146  
 Sato, Y. 2651  
 Satoh, P. S. 1290, 1291  
 Satouchi, M. 4081  
 Sauermann, G. 4227  
 Saunders, G. F. 3184  
 Saunders, T. E. 3627  
 Sautiere, P. 145, 5186, 5441  
 Savage, J. E. 5150, 5452  
 Savage, M. 2092  
 Savignac, M. 3547  
 Savin, V. S. 3903  
 Savinov, I. M. 1201  
 Savitsky, A. 4584, 4612  
 Savolainen, H. 2493, 5297  
 Sawada, F. 199, 3995, 4235  
 Sawada, M. 3278  
 Sawada, Y. 2331  
 Sawyer, D. T. 524  
 Saxby, M. J. 1796  
 Saxena, J. 1437  
 Saxena, O. C. 4335  
 Sazonov, M. L. 30, 4107, 5034, 5063  
 Sazonova, A. G. 5372  
 Scanu, A. M. 4204, 4487  
 Schäfer, W. 5339  
 Schaeffer, B. E. 4550  
 Schaeffer, H. E. 4550  
 Schaeg, W. 4478  
 Schaffer, M. H. 3428  
 Schaller, H. 473, 733  
 Schaller, K. 3430, 4741  
 Schallreuter, K. 3371  
 Schally, A. V. 5334  
 Schanker, L. S. 4408  
 Schapira, G. 4059  
 Scharmann, H. 3144  
 Schatzki, T. F. 4104  
 Schaub, J. 3907

- Schauer, R. 4723  
 Schay, G. 1858  
 Schechter, I. 5480  
 Schechter, N. M. 1311, 1322  
 Scheffer, A. J. 1304, 1619  
 Scheid, P. 977, 1283  
 Scheit, K.-H. 781  
 Schekerdjiev, N. 1459  
 Schellner, H. P. 2998  
 Schenk, G. H. 4325  
 Scherrer, K. 779, 782, 1057, 1343, 1701, 4061  
 Schettino, O. 2762  
 Schiaffonati, L. 2837  
 Schick-Kalb, J. 1907, 1908  
 Schidlovsky, G. 1680  
 Schier, G. 4576  
 Schier, W. 356  
 Schiessler, H. 753, 1045  
 Schiff, S. V. 5312  
 Schilcher, H. 5290  
 Schill, G. 86, 259, 1843, 4839  
 Schilling, E. 3876  
 Schilling, F. J. 697, 698, 983, 1005, 1006  
 Schingler, R. H. 4432  
 Schiweck, H. 231  
 Schlag, B. 975, 1983  
 Schlam, M. L. 374  
 Schlegel, H. 2849  
 Schlegelmilch, F. 4913  
 Schlemmer, W. 2350  
 Schlender, K. K. 232  
 Schlenk, H. 5295  
 Schleuning, W.-D. 753, 1045, 4715, 5022  
 Schliefer, K. 2345  
 Schlimme, E. 2136  
 Schlitt, H. 2253  
 Schmer, G. 2055, 2956  
 Schmid, H. 2770, 3868  
 Schmid, H. H. O. 1479  
 Schmid, K. 2656, 3216, 4127  
 Schmid, W. 3158  
 Schmidt, D. 2322  
 Schmidt, F. 3948  
 Schmidt, G. 4987  
 Schmidt, G. H. 2448  
 Schmidt, J. 1318  
 Schmidt, J. J. 3976, 3996  
 Schmidt, K. 1798  
 Schmidt, K. G. 2374  
 Schmidt, R. R. 1429  
 Schmidt-Glenewinkel, T. 2309  
 Schmidt-Ullrich, R. 1614, 4383, 4492  
 Schmit, J. A. 2133, 4774  
 Schmitz, J. 3463  
 Schmuckler, G. 2194  
 Schmukler, M. 3130  
 Schnabel, C. 3695  
 Schnaitman, C. A. 2946  
 Schneider, C. H. 2748  
 Schneider, G. M. 1882  
 Schneider, H. A. W. 1357  
 Schneider, H. H. 2309  
 Schneider, W. 1225  
 Schneiderman, M. H. 1348  
 Schnipelsky, P. 5060  
 Schnitzler, S. 1975  
 Schnoes, H. K. 3143  
 Schnurr, E. 2295, 4372  
 Schober, D. 385  
 Schoebrechts, F. 1404  
 Schönharting, M. 792  
 Schoenmakers, A. 2883  
 Schoenmakers, J. G. G. 4879  
 Schört, J. 4330  
 Scholar, E. M. 2697  
 Scholefield, P. G. 729  
 Scholte, H. R. 1653  
 Scholten, M. B. 2135  
 Scholtz, K. H. 5277  
 Scholz, H. 3945, 4886  
 Schomburg, G. 1119, 2554, 2617  
 Schott, H. 3137, 3235, 3236  
 Schotz, M. C. 179  
 Schreiber, B. 160  
 Schreier, M. H. 509, 779, 1057  
 Schreuers, V. A. M. 452  
 Schreurs, V. A. M. 705  
 Schroeder, E. 4372  
 Schuetz, C. 345, 948, 1555, 2351, 3949, 3950  
 Schuetz, H. 345, 948, 1555, 2351, 3949, 3950  
 Schullerm, E. 1615  
 Schulman, H. M. 1633  
 Schulman, R. S. 2417  
 Schulte, K. E. 2886, 2894  
 Schulten, H.-R. 1991  
 Schultz, H. 4590  
 Schultz, O. E. 2887  
 Schultz, P. 1802  
 Schulz, J. 4841  
 Schulz, P. 1801  
 Schulz, W. W. 1877  
 Schumacher, G. F. B. 756  
 Schumacher, K. 428  
 Schunack, W. 291  
 Schuphan, I. 2337  
 Schuppe, E. 4173  
 Schurig, V. 2792  
 Schutgens, R. B. H. 1349, 1691  
 Schwabe, E. 513  
 Schwachhofer, K. 3967  
 Schwartz, D. P. 4114  
 Schwartz, H. S. 1335, 1512  
 Schwartz, M. 3280  
 Schwartz, M. L. 3429, 3443

- Schwartz, N. B. 4188  
Schwartz, R. D. 1109  
Schwartzman, R. M. 3338  
Schwarz, C. 4730  
Schwarz, V. 4861  
Schwarz, W. 5179  
Schwedt, G. 2574  
Schweikert, H. 3552  
Schwertner, H. A. 2809  
Schwinn, G. 660  
Schwyzer, R. 666  
Schyns, R. 5178  
Scill, L. 4529  
Scoffone, E. 4752, 5015  
Scolnick, E. M. 1341  
Scopes, R. K. 5012  
Scothern, M. D. 1817  
Scott, C. D. 1227, 1377, 1905, 4555  
Scott, D. 1819, 2589, 2591, 3102  
Scott, I. 1102  
Scott, J. M. 316, 5225  
Scott, P. M. 1471, 1472, 4336  
Scott, R. M. 271  
Scott, R. P. W. 1216, 1226, 1878, 1922, 3700  
Scott, W. A. 2400  
Scouten, W. H. 1938  
Scroogie, J. G. 4275  
Seabloom, R. W. 3305  
Seah, T. C. M. 2078, 2974  
Seamster, P. M. 4619  
Sears, R. W. 4781  
Sebesta, F. 217, 4690  
Šebesta, K. 4525  
Sebastian, I. 1885, 2628  
Sedkowska, J. 5404  
Sedmera, P. 662, 3770  
Sedor, F. G. 1383  
Sedov, A. I. 3955  
Sedykh, A. S. 905, 3353, 3354  
Seebald, H. J. 291  
Seegmiller, J. E. 591, 637  
Seematter, D. J. 5230, 5235, 5236  
Seff, K. 5144  
Segal, E. 1346  
Segal, L. 2624  
Segelman, A. B. 2352  
Seiber, J. N. 631  
Seichasova, G. A. 3025  
Seidel, Ch.-M. 4893  
Seidler, H. 2993  
Seifert, R. 353  
Seiler, N. 2309  
Seilmeier, W. 4961  
Seino, H. 3076, 3078, 3079  
Seitkaliev, K. S. 2457  
Seitov, Z. S. 2457  
Seitz, M. 5291  
Sekera, J. 4954  
Sekeris, C. E. 3158, 5210, 5470  
Sekowska, B. 2759  
Sela, B.-A. 3419  
Sela, M. 4179  
Seliger, H. 4878  
Seligson, D. 4448  
Seligy, V. L. 2065  
Sells, B. H. 1700  
Selmes, I. P. 4699  
Seltzer, E. J. 2323  
Semechkin, A. V. 2007, 4212  
Semenchenko, L. V. 3037  
Semenov, L. V. 42, 563  
Semenov, M. A. 4078, 4693  
Semenov, V. A. 1783  
Semmler, E. J. 874, 2166, 3143  
Sen, A. R. 4377, 4914  
Sen, G. C. 1342  
Sen, L. C. 3725, 4031  
Sen, N. P. 61, 1999  
Senchenkova, E. M. 4552  
Senda, T. 477  
Sendra, J. 2724  
Sendrea, M. 237  
Sengupta, P. 4377, 4914  
Šenkýřová, J. 1126, 4583  
Senner, J. W. 1052  
Seno, N. 4802  
Seno, T. 3510, 3910  
Senov, P. L. 2353, 5381  
Senyavin, M. M. 2195, 3198  
Serdyuk, A. I. 4860  
Serebrenikov, S. N. 223  
Serebryani, S. B. 4002  
Sergeant, Y. H. 3983  
Sergeeva, L. E. 39  
Serkova, V. A. 4786  
Serman, D. 463  
Serov, V. I. 1746  
Serova, L. I. 2282, 2794, 4901, 5370  
Sestrienkova, M. 2618  
Setínek, K. 5139  
Ševčík, J. 21, 3015  
Severin, E. S. 736, 1034  
Sewall, S. 1312  
Sewell, B. M. 2907  
Sewell, J. 2461  
Seyama, S. 470  
Seybold, W. D. 4751  
Seymour, M. D. 2715, 3806, 3807  
Shadoff, L. A. 4141  
Shafer, J. A. 2314  
Shafik, M. T. 1810  
Shah, R. J. 2051  
Shaham, N. 3473, 3730  
Shahjahan, M. 4411

- Shainoff, J. R. 408  
Shakhova, S. F. 39  
Shakirov, T. T. 1961, 3367, 3893, 3918, 3957  
Shakirova, A. M. 4101  
Shaltiel, S. 2629, 4170  
Shami, E. 342  
Shamsutdinov, M. I. 1961  
Shamsutdinov, M. R. I. 3367  
Shanbag, M. R. 1258  
Shank, J. T. 553  
Shank, R. L. 1867  
Shankar, V. 5222  
Shanmugasundaram, E. R. B. 326  
Shannon, G. M. 4337  
Shany, S. 1498  
Shaper, J. H. 1247  
Shapiro, B. M. 419  
Shapiro, D. R. 3303  
Shapiro, Z. M. 1218  
Shapolvalova, G. K. 3354  
Shaposhnikov, G. L. 1616  
Shaposhnikova, G. M. 2278  
Sharma, M. N. 315, 900, 2325  
Sharma, S. D. 252  
Sharma, S. G. 5263  
Sharma, V. 2237  
Sharma, V. K. 5263  
Sharon, N. 111, 655, 3419, 4706, 4848  
Sharonov, K. G. 3065  
Sharp, P. A. 2985  
Sharygin, A. A. 511  
Sharyi, Yu. S. 1759  
Shashkov, A. G. 1726  
Shatkin, A. J. 4538  
Shats, V. D. 1949  
Shatsky, M. A. 478  
Shavit, N. 1723  
Shavitz, R. 243  
Shaw, C. R. 2988  
Shaw, D. C. 168, 475  
Shaw, D. G. 1811  
Shaw, N. 235  
Shcherbakova, K. D. 49, 4554  
Shechosky, S. 673  
Shechter, I. 2327  
Sheehan, J. E. 5389  
Shefter, V. E. 5062, 5071  
Sheichenko, V. I. 4882  
Sheikh, A.-S. 68, 312  
Shein, H. M. 3280  
Sheinina, R. I. 205  
Shellard, E. J. 1353  
Shelman, D. L. 1376  
Shemin, D. 3178  
Shemyakin, F. M. 4793  
Shenai, V. A. 1537  
Shepard, R. L. 4122  
Shepelev, V. E. 1174  
Shepherd, J. A. 3157  
Shepot'ko, N. B. 3101  
Sheps, S. G. 1278  
Sherbet, G. V. 393  
Sheridan, J. P. 3525  
Sherma, J. 808, 5133, 5239  
Sherman, W. R. 4620  
Shershneva, L. P. 2319  
Sherstnev, K. B. 2394  
Sherstyuk, A. I. 2556  
Shevchenko, A. M. 3826  
Shevkunova, A. A. 3091  
Shibano, M. 743  
Shibata, M. 1397  
Shibata, Y. 5245  
Shields, J. B. 332  
Shier, W. T. 4316  
Shifman, V. S. 1758  
Shigekawa, M. 2062  
Shikhaleva, N. A. 3273  
Shikita, M. 3169, 3170  
Shikolyukov, S. A. 2458  
Shiloah, J. 2474  
Shima, Y. 4826  
Shimada, T. 2920  
Shimamine, M. 3917  
Shimankaya, M. V. 3085  
Shimi, I. R. 4412  
Shimizu, Y. 4217  
Shimizu, T. 3808, 4453  
Shimoishi, Y. 1829, 2575  
Shimomura, M. 4009  
Shimura, Y. 1396  
Shin, B. C. 5432  
Shinada, S. 2439  
Shinada, T. 3891  
Shingari, M. K. 4095  
Shingler, A. J. 4394, 4618  
Shinik, G. M. 2236  
Shinkai, K. 159, 459  
Shinkai, S. 2330  
Shinoda, M. 2208  
Shinoda, T. 1301, 1302, 2042  
Shiozawa, A. 4830, 5278  
Shiraishi, S. 3079  
Shirasaki, S. 943  
Shirinbekova, F. I. 28  
Shishenina, E. P. 3564  
Shishkov, D. A. 3114  
Shklovskii, Ya. A. 1232  
Shkolina, L. A. 3017  
Shkuratov, V. I. 1115  
Shlimak, V. M. 2050  
Shlom, J. M. 4509  
Shlyakhov, A. F. 30, 5037  
Shlyakhova, A. F. 5034

- Shlyk, A. A. 521  
 Shmeleva, L. I. 3271  
 Shmidt, A. A. 864  
 Shmualovich, S. M. 1815  
 Shnol, V. Ya. 1074, 1111, 1120, 1759, 1760,  
 2537, 3043  
 Shnukal, I. M. 1120  
 Shokol, V. A. 4906  
 Shomura, T. 1525  
 Shore, B. 1595, 1939  
 Shorenstein, R. G. 3482, 3483, 3737  
 Short, N. A. 780, 1595, 1939  
 Shortanova, T. Kh. 2012  
 Shorygia, N. V. 3903  
 Shorygina, N. N. 4196  
 Shoshan, V. 1723  
 Shostakovskii, N. F. 4684  
 Shostenko, Yu. V. 5352  
 Shotwell, O. L. 3666, 4337  
 Shoukry, S. 4412  
 Shroff, A. P. 5316  
 Shtacher, G. 161, 464  
 Shtaerman, M. Ya. 1123, 1124, 2540  
 Shtefens, D. 1771  
 Shtiler, S. Yu. 3939  
 Shu, C. K. 3204  
 Shubnyakova, L. P. 2994  
 Shugalo, I. M. 3827  
 Shugar, D. 304, 2134, 2228  
 Shugart, L. 1344  
 Shukla, S. K. 827, 960, 2211, 2239, 2365, 4818  
 Shukuya, R. 2920  
 Shul'ga, E. A. 4285  
 Shulik, L. S. 5265  
 Shulman, R. S. 2680  
 Shults, W. D. 613, 1176  
 Shuman, D. A. 2135, 4385  
 Shunbo, F. 1173  
 Shutov, A. D. 398  
 Shvartsman, G. A. 334  
 Shvedov, V. I. 2572  
 Shvets, T. V. 5228  
 Sibiga, S. 2304  
 Sibley, E. M. 1125  
 Sica, V. 3401, 3726, 4716  
 Sick, H. 4468  
 Sideloi, R. 1633  
 Sidhu, H. S. 4219  
 Sidky, M. M. 4907  
 Sidorov, R. I. 2546, 5075, 5080  
 Sidorov, V. I. 1096  
 Sidorova, N. I. 3621  
 Sidorova, N. M. 4002  
 Siebeneick, H. U. 2112  
 Siebert, G. 792  
 Siebert, K. J. 87  
 Siede, W. 3369  
 Siedlanowska-Krówczyńska, H. 2882  
 Siegel, L. M. 3336  
 Siegel, M. I. 3240  
 Siegert, M. 1065, 2993  
 Siekevitz, P. 1644  
 Siekierski, S. 1857  
 Siekmann, L. 4367  
 Sieper, H. 2162  
 Sierra, M. F. 499  
 Sieswerda, G. B. 2611  
 Sievers, R. E. 1094, 1106  
 Sigel, C. W. 955, 3697  
 Siggia, S. 793, 4100, 4584, 4612, 5237  
 Sigler, G. F. 325  
 Siigur, E. 2453  
 Sikharulidze, N. G. 571  
 Sikka, H. C. 1437  
 Silaev, A. B. 701  
 Silano, V. 2947  
 Silbert, J. E. 3678, 3679  
 Siling, M. I. 824  
 Silis, J. 1949  
 Silva, M. E. 3414, 3669  
 Silverman, P. M. 2986  
 Silverman, R. A. 4581  
 Silverman, R. W. 4080  
 Silverstein, E. 2147  
 Simanova, M. V. 2297  
 Simatupang, M. H. 109  
 Šimek, M. 3638  
 Simeone, A. M. 3661  
 Simiand, J. 4450  
 Simionescu, Cr. 213  
 Simkins, G. M. 2568  
 Simkins, R. J. J. 1365  
 Simmons, W. H. 3317  
 Simon, B. 3503  
 Simon, D. 3501, 3757  
 Simon, I. S. 5352  
 Simon, J. 311, 4442  
 Simon, L. N. 2135, 4313, 4385  
 Simon, W. 2515, 4580  
 Simoncsits, A. 4880  
 Simongauz, S. E. 1218  
 Simoni, R. D. 2688, 2691  
 Simonides, J. 4828  
 Simonov, V. D. 1790  
 Simons, W. S. 346  
 Simpson, C. F. 1923  
 Simpson, R. T. 3457, 4015  
 Sims, P. 3265, 4194  
 Sin, I. L. 2223  
 Šindelář, K. 3774, 3800  
 Sinegribova, O. A. 253  
 Singer, G. 2459  
 Singer, M. F. 2917  
 Singer, P. 3282

- Singer, S. 1319, 4475  
Singh, B. 2757  
Singh, D. 4219  
Singh, E. J. 2284  
Singh, H. 2296, 2584, 2699, 2810  
Singh, H. P. 1237  
Singh, J. 150, 164, 274, 447  
Singh, R. S. 2948  
Singh, S. 2091  
Singhal, R. P. 1336, 2698, 4387, 5219  
Šingliar, M. 1785, 2618  
Singh, J. 468  
Sinitsina, A. L. 1608, 2032  
Sinitsyna, L. A. 5128  
Sinkovic, D. 4205  
Sinnecker, R. 5319  
Sinner, M. 109  
Sinsheimer, J. E. 3847  
Sipe, J. D. 1940  
Siryatskaya, V. N. 1803  
Šita, F. 5396  
Sitaram, R. 1405  
Sitz, T. O. 5026  
Sitzius, F. 3941  
Sival, J. 4057  
Six, H. R. 2924, 2949  
Sixta, V. 3809  
Sizova, G. S. 124, 602  
Sjöberg, B.-M. 1941  
Sjöquist, J. 603  
Sjöström, H. 4756, 5020, 5023  
Sjövall, J. 1980  
Sjövall, J. B. 1172  
Skakoun, A. 3382  
Skandrani, E. 145  
Shehel, J. J. 1244  
Skerrow, D. 3449  
Skibicki, J. 2328  
Skinner, M. 3450  
Sklan, D. 320, 3597, 3928  
Skořepa, J. 1140  
Skorkowski, E. F. 2021  
Skotnik, A. 3267  
Skreb, N. 463  
Skřivan, P. 3965  
Skvortsov, I. M. 43  
Skyring, G. W. 4037  
Sladić-Simić, D. 2066  
Slater, L. 2900  
Šlechtová, R. 4646  
Sledge, C. R. 3655  
Sleight, R. B. 1279, 1956  
Slesarova, L. 174  
Slivko, L. V. 4816  
Sliwiok, J. 842, 4117  
Sliwiok, M. 2362  
Slodki, M. E. 1248  
Sloman, K. G. 4661  
Slomiany, A. 1264, 1486  
Slomiany, B. L. 1264, 1486, 2653  
Sloof, P. 1055, 4057  
Slopianka, M. 4863  
Slor, H. 5212  
Slusarchyk, W. A. 1435  
Smalldon, K. W. 3604, 3609, 5107, 5269, 5382  
Smeets, G. W. M. 466  
Šmíd, F. 3290  
Smiley, J. W. 624  
Smilie, L. B. 680, 1607, 2031, 4011  
Smolková, E. 25, 1741, 3548  
Smorodina, I. V. 1356, 4249  
Smirnov, A. O. 4203  
Smirnova, G. P. 2803  
Smith, A. E. 1020, 3937, 4598  
Smith, A. G. 4607  
Smith, B. E. F. 5096  
Smith, B. G. 2268  
Smith, C. J. 3656  
Smith, D. A. 4311  
Smith, E. E. 305  
Smith, E. L. 2029, 2030, 2040, 2098, 3466, 3729  
Smith, G. 4392  
Smith, H. 1679  
Smith, I. 2249, 2369  
Smith, I. K. 3738  
Smith, J. A. 2460  
Smith, J. L. 3080  
Smith, L. C. 2068, 2931  
Smith, L. L. 5321  
Smith, M. 4165  
Smith, M. C. 2963  
Smith, M. M. 1417  
Smith, P. F. 235  
Smith, R. 4169  
Smith, R. F. 1214  
Smith, R. V. 2048, 4393, 5353  
Smith, S. C. 5308  
Smith, S. J. 3254  
Smith, T. G. 4922  
Smith, W. D. 1133  
Smith, W. V. 1842  
Smith Sorensen, T. 4694  
Smits, M. M. 2555  
Smits, R. 5041  
Smrt, J. 4055, 4056, 5473  
Smyth, D. G. 2666  
Smyth, W. F. 5264  
Smythe, R. J. 3062  
Smythers, G. W. 1506  
Soave, C. 3639  
Sobczyk, H. 335  
Sobolevskii, M. V. 2538  
Sobue, M. 5160  
Socha, A. 5363

- Soczewiński, E. 1453, 2272, 2635, 4807, 4823  
 Sodek, J. 673  
 Soderquist, C. J. 1812, 4624  
 Sodhi, H. S. 4972  
 Söderhäll, S. 764, 2127  
 Soedigdo, S. 4291  
 Soediro, Sanuman, M. 4939  
 Soegiarto, Ny. N. C. 5257  
 Söll, D. 3510, 3910  
 Soffer, R. L. 2092  
 Soffientini, A. N. 4746  
 Sofronova, M. Yu. 1616  
 Sogawa, H. 3664  
 Soguljaeva, V. M. 4002  
 Sohn, D. 311, 4442  
 Soimu, P. 1802  
 Soják, L. 46, 57, 578, 4074, 4563  
 Sokolov, D. N. 3601, 4655  
 Sokolov, L. B. 323  
 Sokolov, S. D. 4129, 4862, 4866  
 Sokolov, V. N. 2649  
 Sokolova, A. I. 1422  
 Sokolovsky, M. 5217, 5468  
 Sokolowska, I. 5384  
 Solal, M. C. 891  
 Soldat, W. D. 4849  
 Soldatenkov, S. V. 3628  
 Solheim, E. 2869  
 Sølling, H. 2646  
 Solodukho, I. G. 4547  
 Soloff, M. S. 5002  
 Solomatina, L. S. 1180  
 Soloniewicz, R. 825  
 Solsky, J. F. 3545, 5060  
 Somack, R. 723, 1028  
 Somaroo, B. H. 4294  
 Sommer, H. 4312  
 Sommer, K. R. 2030  
 Sonneborn, H. H. 4959  
 Sonntag, I. 4063  
 Soo, A. 1563  
 Sorensen, T. S. 5039  
 Sorimachi, M. 4808  
 Šorm, F. 662, 667, 775, 979, 1271, 1272  
 Šormová, Z. 1347, 3767, 4248  
 Sorochan, A. M. 2195, 3198  
 Sorokina, N. L. 4112  
 Sorokskaya, L. B. 923  
 Sorvari, T. E. 2002  
 Sorvik, E. M. 4259  
 Souček, M. 3684  
 Souhami, R. L. 2907  
 Souter, R. W. 4573, 5046  
 Southern, A. L. 661  
 Soutorová, M. 1559, 2049, 4211  
 Sovová, M. 5250  
 Soyak, L. 3009  
 Spangelo, R. C. 4595  
 Spangenberg, P. 5019  
 Sparrow, L. G. 1617, 5337  
 Spatorico, A. L. 1371, 1868  
 Spatz, L. 2401  
 Spegg, H. 3959  
 Spellman, C. M. 3507  
 Spelsberg, T. C. 3384  
 Spencer, G. F. 4120  
 Spencer, N. 2922, 3176  
 Spener, F. 4381  
 Speranza, M. L. 5014  
 Speroff, L. 656  
 Speyer, B. E. 4287  
 Spicer, L. D. 3615  
 Spiekerman, A. M. 184  
 Spinney, P. R. 3320  
 Spiro, M. J. 3425  
 Spirydonow, E. 245  
 Spitzzy, H. 160, 5175  
 Šponar, J. 3767  
 Spooner, R. L. 4019  
 Spreckelmeyer, S. 4606  
 Springgate, C. F. 3484  
 Sprinzi, M. 781, 4308  
 Spryskov, A. A. 3097, 3239  
 Spyridakis, A. 498, 1024  
 Sreenivasan, A. 714  
 Sridhara, S. 685  
 Srinivasan, S. R. 5416  
 Srinivasan, V. 3586  
 Srinivasulu, C. 3288  
 Sri Ram, N. 2296  
 Srivastava, K. C. 3689, 4351  
 Srivastava, O. P. 1129  
 Stachowiak, K. 127  
 Stachowiak, Z. 242  
 Stack, M. E. 4329  
 Stadler, L. 5328, 5329  
 Stadtman, E. R. 3395  
 Staehelin, T. 509, 779, 1057  
 Stähle, R. 4348  
 Stafford, D. T. 103  
 Stafford, M. 1146  
 Stahl, E. 845, 2775, 3260, 3860, 4202, 4374, 4443, 4725, 4831  
 Stahl, K.-W. 2136, 4173  
 Stainier, R. 2846  
 Stamatova, V. 1446  
 Štamberg, J. 4631  
 Stamenkovic, D. 3148  
 Stanacev, N. Z. 1265  
 Stanagev, N. Z. 659  
 Staněk, Jr., J. 5157  
 Staneloni, R. J. 1591  
 Stangalini, A. 448  
 Stankovianski, S. 46



- Stanley, W. D. 1398  
Stanton, D. L. 2517  
Stapp, A. C. 1087  
Starikova, N. 812  
Stark, G. R. 3428  
Starkov, A. V. 934  
Starý, P. 1107  
Stasiuk, L. 1345  
Stateczna, M. 554  
Stathakos, D. 3321  
Staudinger, H. 4478  
Stave, U. 2004  
Stavinoha, L. L. 3570  
Stead, A. H. 2589  
Steadman, J. H. 3968  
Stec, K. S. 3048  
Steele, J. W. 2602, 2603  
Steele, T. W. 216  
Steen, G. O. 1261, 1482, 2801, 4857  
Steers, Jr., E. 3752, 4050  
Stefani, D. V. 4481  
Stegink, L. D. 3157  
Stehelin, D. 3711  
Stein, G. 4262  
Stein, O. 394  
Stein, W. H. 2041  
Stein, Y. 394  
Steindorf, W. 3108  
Steinemann, A. 3131  
Steinert, P. M. 2678  
Stellner, K. 1981  
Stelwagen, P. 4471  
Stelzig, D. A. 3820  
Stenberg, P. 426, 5000  
Stengele, E. 4878  
Stenman, U.-H. 4748  
Stenzel, P. 4743  
Štěpán, J. 2908, 2909, 4960  
Štěpánek, J. 3393  
Stepanenko, V. E. 3541  
Stepanov, V. M. 1300, 3977  
Stepanova, N. P. 3851  
Stepanyants, A. U. 1800  
Stephan, W. 434, 2378  
Stephen, W. I. 1154  
Steporowska, K. 127  
Serman, U.-H. 4970  
Stermitz, F. R. 651, 1958  
Stern, G. M. 67  
Sternbach, H. 4308  
Sternberg, Z. 4568  
Stevens, E. C. 1610  
Stevens, F. C. 1306  
Stevens, M. R. 3422  
Stevens, R. L. 185, 4127  
Stevenson, D. 3471  
Stevenson, D. S. 927  
Stevenson, R. 5143  
Steward, Ch. M. 2135  
Stewart, A. 779, 1057  
Stewart, A. G. 782, 1343, 4061  
Stewart, J. M. 3908  
Stewart, P. S. 1931  
Stich, W. 2322  
Sticht, G. 4934, 5388  
Stieber, J. F. 784  
Stiefel, D. J. 186, 490  
Still, C. C. 1704  
Still, F. 3867, 3951  
Stillman, R. 1924  
Stillwell, W. G. 1146  
Stober, H. C. 3546  
Stocken, L. A. 2460  
Stocklinski, A. W. 4393  
Stockwell, P. B. 4630  
Stoerber, F. R. 2123  
Stoek, G. 110  
Stoellnberger, P. 2259  
Stoeppler, M. 1202, 1412  
Stötzler, D. 706, 990  
Stoiv, S. 986  
Stoffel, W. 3888, 4354  
Stoffer, S. S. 1278  
Stokke, O. 1171  
Stollat, B. D. 1002  
Stoltzfus, C. M. 4538  
Stolyarov, V. P. 3087  
Stolyhwo, A. 1266, 1879, 4856  
Stolz, M. 2043  
Stolz, P. 3282  
Stolzberg, R. J. 4146  
Stone, B. A. 1417  
Stone, D. 136, 414  
Stone, S. 2437  
Stoner, R. E. 5393  
Stonov, L. D. 922, 4425  
Stopa, W. 894  
Storch, V. H. 2972  
Storck, J. 898, 2320  
Storm, C. B. 5176  
Storm, E. 4023  
Stossel, T. P. 4513  
Stoyanovich, F. M. 3096  
Straatmann, M. 2717  
Strain, S. M. 1214  
Straka, F. 2273  
Straka, R. 3696  
Strassburger, D. 434  
Stratil, A. 4019  
Stratulat, A. 3000  
Straube, B. 1907  
Straus, D. B. 3329  
Strauss, C. R. 4604  
Strecker, G. 229, 233

- Street, D. C. 1880  
 Streibl, M. 588  
 Streitberger, U. 190, 497  
 Streitwieser, Jr., A. 1360  
 Strelow, F. W. E. 4691  
 Streltsov, L. V. 2531  
 Strickland, R. D. 5400  
 Strickland, S. 2079  
 Strickland, W. N. 4225  
 Strickler, A. 4546  
 Strittmatter, P. 2401  
 Stroes, J. A. P. 2979, 4046  
 Strominger, J. L. 138, 817, 3231  
 Strongin, A. Ya. 3977  
 Stronski, I. 218, 1406, 4156  
 Strous, G. J. A. M. 2071  
 Stroza, I. 203  
 Strubert, W. 1228, 1233, 5169  
 Struchkova, L. G. 3057  
 Strukov, I. T. 517, 2282  
 Strukova, S. M. 1039  
 Strusz, R. 3778  
 Strzelecka, H. 4864  
 Strzelecki, E. L. 855  
 Stuart, A. L. 496, 3731  
 Stubblefield, R. D. 3666, 4337  
 Stuchbury, J. E. 1365  
 Stuchlík, J. 615, 4625  
 Stuckwisch, C. G. 3574  
 Stuhne-Lekalec, L. 1265  
 Stuhne-Sekalec, L. 659  
 Sturani, E. 2837  
 Sturgess, E. A. 2950  
 Stutz, M. H. 3772  
 Styer, L. 3131  
 Styskin, E. L. 4597  
 Su, G. C. C. 3600  
 Subden, R. F. 2158  
 Suberg, H. 2764  
 Subirana, J. A. 3721  
 Subramanian, G. B. V. 2296, 2584  
 Sucrow, W. 4863  
 Sudell, B. 1666  
 Suelter, C. H. 2395  
 Sugahara, T. 5154, 5406  
 Sugawara, N. 343, 5367  
 Sugden, B. 2093, 2925, 2985  
 Sugden, J. K. 5258  
 Sugden, K. 3013  
 Sugino, K. 5126  
 Sugisaki, K. 1361  
 Sugiura, M. 2114, 4757, 4971  
 Sugiyama, S. 2954  
 Sugiyama, T. 539  
 Suhara, Y. 1521  
 Sukhomlinov, B. F. 386  
 Sukhoroslova, L. I. 5342  
 Šula, B. 3771  
 Šulcek, Z. 3809  
 Suleimanov, K. G. 422  
 Sulkowski, E. 5152  
 Sullivan, G. L. 4325  
 Sullivan, J. J. 4570  
 Sullivan, N. 2700  
 Sumbaev, E. G. 1782  
 Summari, L. 1942, 2910  
 Summers, M. R. 1506  
 Summons, R. E. 1505  
 Sun, F. F. 3345  
 Sunblad, L. 1667  
 Sundaram, G. S. 4972  
 Sundberg, L. 5153  
 Sundby, F. 411, 684  
 Sunderman, Jr., F. W. 5181, 5428  
 Sundler, R. 865, 1267  
 Sundström, G. 2580, 4111  
 Sung, S.-C. 4189  
 Sung, S. J. 3289  
 Sunshine, I. 294, 2357, 5108  
 Suolinna, E. R. 4995  
 Supalert, Y. 1029  
 Supina, W. R. 4068  
 Suprynowicz, Z. 26, 546, 556, 1756, 2507, 2522  
 Surette, D. 331  
 Suriano, J. R. 5002  
 Suscillon, M. 2965  
 Suska-Brzezińska, E. 3744  
 Suslova, E. N. 1370, 4263, 4264  
 Susplugas, P. 307, 853, 878  
 Sussman, J. L. 241, 1327, 1337  
 Suter, H. 321  
 Sutherland, R. G. 4627  
 Sutherland, W. J. A. 3127  
 Sutinskii, I. A. 736  
 Sutre, P. 1950  
 Sutter, A. 2094  
 Suwalska, W. 2749  
 Suyama, Y. 191  
 Suzuki, A. 1434, 2159, 5307  
 Suzuki, J. 1535, 4834  
 Suzuki, K. 471, 724, 928, 3467, 3728, 4370, 4776, 4858  
 Suzuki, M. 260, 835, 836, 1198, 1673, 1859, 1860, 5367  
 Suzuki, N. 809, 1326, 3214  
 Suzuki, S. 516, 809, 1082, 3214, 3215, 3415, 3502, 3580, 3675, 3758, 5160  
 Suzuki, T. 887, 3251, 3402, 4494  
 Suzuki, Y. 261, 539, 837, 4241  
 Suzuoki, Z. 5359  
 Svátek, E. 3774, 3800  
 Švec, P. 4341, 4801  
 Svendsen, P. J. 4977  
 Svensson, S. 55, 3217, 5244

- Svetlaeva, M. V. 3273  
 Svetlaeva, V. M. 2563  
 Svishchuk, A. A. 2297, 3897  
 Svobodová, D. 4293  
 Svojtková, E. 2375  
 Swaim, P. 5279  
 Swank, H. D. 4463  
 Swanljung, P. 1943  
 Swaroopa, S. 2619  
 Swart, L. S. 2063  
 Swartz, S. K. 5002  
 Sweed, N. H. 4273  
 Sweeley, C. C. 2395, 2643, 3281, 3289  
 Sweetman, B. J. 3557  
 Swiatek, K. R. 4313  
 Swiatek, L. 2733  
 Swoboda, G. 5340  
 Syagaev, N. A. 2649  
 Syavtsello, S. V. 1763  
 Syavtsillo, S. V. 1727, 1758, 3098, 3594  
 Sybilska, D. 1870  
 Sychkova, V. A. 5265  
 Sydymanov, B. B. 956  
 Sykulski, J. 4295  
 Symons, R. H. 2741  
 Synge, R. L. M. 125  
 Sytenko, T. P. 3038  
 Szabó, Z. S. 2186  
 Szafranek, J. 1139, 5082  
 Szarfoldi-Szalma, I. 3341  
 Szasz, K. 1221, 2632, 3261  
 Szeinberg, A. 1423, 1597, 2005  
 Székely, M. 1054, 1058, 2738  
 Szelényi, J. 4743  
 Szelenyi, J. G. 4503  
 Szeto, Y. S. 619  
 Szilazne Kelemen, M. 5302  
 Szmerekova, V. 2618  
 Sznajd, J. 171  
 Szocik, A. 53  
 Szokolay, A. 5373  
 Szollosy, E. 690  
 Szonyi, D. G. 3892  
 Szonyi, J. 2873  
 Sztanyik, L. 2745  
 Szulmajster, J. 1720, 2210  
 Szumilo, H. 1453, 4823  
 Szydłowska, G. 3861  
 Szyszko, E. 3359, 4928
- T**
- Tabacchi, R. 4842, 5287  
 Tabacoff, B. 515  
 Tabata, S. 108  
 Tabaud, H. 2727  
 Tabita, F. R. 5024  
 Tabor, C. W. 2685, 3701  
 Tabor, H. 2685, 3701  
 Tabor, R. K. 4832  
 Taborsky, G. 1315  
 Tadić, Z. D. 892  
 Tadros, Th. F. 2174  
 Tagaki, M. 809, 3214  
 Tagand, G. 3563  
 Taglia, V. 1069, 1714, 2403  
 Taguchi, H. 5018  
 Tai, C. L. 5201  
 Tai, H.-H. 5201  
 Taillade, C. 853  
 Tait, G. H. 2695  
 Tajima, T. 1378, 4268  
 Takács, J. M. 534, 535, 558  
 Takagahara, I. 4241  
 Takagi, M. 3923  
 Takagi, T. 3202, 4792  
 Takagi, Y. 2208  
 Takahashi, K. 726, 3917, 5177, 5420  
 Takahashi, N. 869, 3997  
 Takahashi, S. 1407, 3585, 5371  
 Takahashi, T. 5154, 5406  
 Takahashi, W. 5309  
 Takai, N. 361, 1909  
 Takamatsu, A. 4409  
 Takamori, I. 5367  
 Takasaki, Y. 2654  
 Takata, Y. 1881, 3642  
 Takayama, K. 3143  
 Takeda, T. 1220  
 Takehara, M. 4946  
 Takei, G. H. 4359  
 Takei, S. 3019  
 Takemori, S. 5424  
 Takemura, S. 777  
 Takeshita, R. 3938  
 Taketa, F. 2449  
 Taketa, K. 4530  
 Takeuchi, T. 261, 539, 837, 1818, 2651, 5364  
 Takeuti, K. 4971  
 Takhtobaeva, G. M. 2359  
 Takimoto, S. 5061, 5146  
 Takita, T. 1524  
 Takitani, S. 260, 835, 1198, 1859, 1860  
 Takiura, K. 1793  
 Taku, A. 2684  
 Takusa, K. 4358  
 Tal, I. 1681  
 Tal, M. 5001  
 Talamo, R. C. 3174  
 Talens, A. 1724  
 Talipov, Sh. T. 205, 1465, 1466  
 Tallent, W. H. 4120  
 Tallman, J. F. 187, 491

- Talwalkar, R. T. 1421  
 Tamaoki, B. 5196  
 Tamaoki, B.-I. 4370  
 Tamura, N. 1408  
 Tamura, S. 4971  
 Tamura, T. 58, 3084, 3580  
 Tamura, Z. 301, 5231  
 Tan, K. H. 1460  
 Tan, L. 3081  
 Tan, Y. Y. 2874  
 Tanaka, F. S. 4613  
 Tanaka, H. 295  
 Tanaka, K. 3497  
 Tanaka, M. 2044, 3285, 3712  
 Tanaka, R. 188  
 Tanaka, S. 522, 2178, 2346, 2347, 3665, 3776, 5104, 5229  
 Tanaka, T. 5429  
 Tandon, S. N. 2199, 4782  
 Taneeva, G. G. 4816  
 Tang, S. H. 3533, 3629  
 Tangen, O. 3814  
 Tangrea, J. A. 1499  
 Tani, Y. 1361, 5262  
 Tanigawa, T. 3683  
 Taniguchi, H. 3676, 4985  
 Tanimoto, T. 5247  
 Tanimura, T. 5231  
 Taniuchi, H. 2073, 2644, 2693  
 Taniyama, H. 2331  
 Tanner, W. 2085, 3411  
 Tanno, T. 1843, 4683  
 Tanzer, M. L. 686, 987  
 Tao, M. 3173  
 Taphoorn, J. H. 2890  
 Taranenko, S. A. 4844  
 Tarasevich, Yu. I. 3053  
 Tarasova, R. I. 961  
 Tarbutton, P. 4973  
 Tarcsay, L. 2409  
 Tarkhanova, E. B. 3091  
 Tarnoff, J. F. 1018  
 Tarone, G. 3657  
 Tashiro, J. 2581  
 Tassi-Micco, C. 2939  
 Tasta, B. 4441  
 Tatarinskii, V. S. 33  
 Tate, M. E. 182  
 Tate, S. S. 2122  
 Tatsuta, K. 4384  
 Taubert, H. D. 2294  
 Taubold, R. 3142  
 Taunton, O. D. 2068, 2931  
 Tavitian, A. 1064  
 Tawfik, M. S. 622  
 Taya, Y. 5221  
 Taylor, C. W. 2964  
 Taylor, Jr., F. B. 1670  
 Taylor, Jr., L. M. 3429  
 Taylor, M. W. 4670  
 Taylor, P. J. 1744  
 Taylor, R. 4908  
 Tchen, T. T. 3428, 3467  
 Tchihirgina, G. L. 1702  
 Tedro, S. M. 149  
 Tegner, H. 3653  
 Teichman, R. J. 4359  
 Teichmann, B. 4296  
 Tejnecky, M. 2198  
 Telepchak, M. J. 1199, 1906  
 Teleshova, M. N. 3107  
 Telfer, A. 2048  
 Telishevskaya, L. Ya. 1242  
 Tember, G. A. 4121  
 Temple-Smith, P. 3465  
 Tencati, J. R. 192  
 Tencer, Y. 1498, 1659  
 Tenenhouse, H. 1037  
 Tener, G. M. 2143, 2841, 3766  
 Teng, J. I. 5321  
 Ten Hoopen, H. J. G. 162, 465  
 Ten Noever de Brauw, M. C. 1136  
 Teo, T. S. 1021  
 Terada, S. 2022  
 Terao, T. 3984, 4190  
 Terayama, H. 2080, 2926  
 Terenina, M. B. 3075  
 Terent'ev, V. Kh. 3576  
 Terho, T. 4297, 4724, 4986  
 Terho, T. T. 1249, 1588  
 Terkelsen, G. 1914  
 Terlain, B. 3343  
 Terpigor'eva, T. F. 2975  
 Teruya, A. 188  
 Terwilliger, R. C. 5188, 5443  
 Tesářík, K. 1098, 1202, 3630, 4657  
 Tesoriere, G. 4821  
 Teubner, H. 4850  
 Teufel, U. 327, 903, 1065, 2993  
 Tewari, G. M. 4936  
 Tewari, S. N. 939, 962, 5263, 5375  
 Thackrah, T. 4470  
 Thakur, M. 4294  
 Thakur, M. L. 1411  
 Than, P. 1516  
 Thanbichler, A. 813  
 Thapon, J. L. 180  
 Theander, O. 4979  
 Theil, E. C. 704, 1010  
 Thelander, L. 3474  
 Thenot, J.-P. 596  
 Thibert, R. J. 4299, 5251  
 Thiele, O. W. 660  
 Thielemann, H. 851, 879, 929, 930, 949, 1473,

- 1517, 1549-1551, 2778, 3219, 3355, 4925, 4926  
Thieme, H. 228, 1474, 5324  
Thier, H. P. 2165  
Thomas, Jr., A. 4766  
Thomas, H. 2285, 2594, 5303  
Thomas, J. 3608, 5168  
Thomas, J.-P. 3343  
Thomas, L. 3503  
Thomas, N. C. 5053  
Thomas, P. E. 5199  
Thomas, R. D. 651, 1958  
Thomas, T. D. 2291  
Thombs, D. A. 22, 3049  
Thompson, A. R. 4005  
Thompson, D. J. 3875  
Thompson, E. O. P. 2488, 3327  
Thompson, J. L. 4115  
Thompson, R. C. 2312, 2313  
Thompson, R. D. 4444  
Thomsen, J. 154, 454  
Thomson, J. 2341  
Thomson, W. A. 5116  
Thornburg, W. 4628  
Thornburn Burns, D. 2341, 3392  
Thorner, J. W. 2095  
Thornton, J. I. 790, 1376  
Thorpe, T. M. 4085  
Thrasher, J. J. 1501  
Thurman, L. S. 4394, 4618  
Thwaites, B. H. 4225  
Tibbetts, D. L. 3877  
Tibbetts, III, F. E. 4623  
Tieco, G. 4540  
Tiedemann, H. 5179  
Tiepolo, U. 1786, 1787  
Tiernay, J. M. 5045  
Tiess, D. 348  
Tietz, A. 396, 1420  
Tikhomirova, G. P. 857, 3898  
Tikhonenko, T. I. 992  
Tikhonov, V. P. 391  
Tikhonovich, S. Ya. 90  
Tikkanen, M. J. 1992  
Tilberg, H. M. 3464  
Tiley, P. F. 3049  
Tilley, B. E. 4051  
Tilly, A. 1167  
Timko, J. M. 2009  
Timofeeva, O. A. 334  
Timofeeva, V. P. 5075  
Timpa, J. D. 2624  
Timpl, R. 687, 989, 2043  
Ting, G. 1710  
Ting, I. P. 4531  
Tingstad, J. 342  
Tinman, G. 1659  
Tipping, E. 4965  
Tipton, K. F. 4034  
Tischfield, J. A. 1654  
Tishbee, A. 27, 1173  
Tishchenko, A. I. 3621  
Tishchenko, M. A. 2520, 2526  
Tishko, G. M. 5372  
Titova, I. A. 124, 602  
Tiunova, I. M. 3021  
Tkachev, S. V. 2784  
Tobey, R. A. 1004  
Tobin, R. 4696  
Tocci, P. 846  
Tocci, P. M. 2911  
Toda, S. 1526  
Todorovičová, H. 1140  
Toei, K. 1829  
Tökés, L. 3307  
Tölg, G. 1725, 3523  
Tömpe, L. 1615  
Tokuma, Y. 2080, 2926  
Tokushige, M. 472, 3502, 3758  
Tokuyama, H. 3714  
Tokyo Chemical Industry Co., Ltd. 1461  
Tolba, R. 4442  
Tolba, R. A. 311  
Tolbert, G. D. 3645  
Toleva, P. 3151  
Tolmachev, A. M. 3526, 3527  
Tolmachev, V. N. 209  
Tolmacheva, N. S. 200  
Tolstobrov, V. P. 1218  
Tomashchik, A. D. 4901  
Tomašić, J. 4983  
Tomasz, J. 2318, 4880  
Tomaszewska, B. 3841  
Tomczyk, O. 4258  
Tomita, I. 1379  
Tomita, K. 1651  
Tomko, J. 1352  
Tomomatsu, T. 1535  
Tomus, R. 3960, 5325  
Tonomura, Y. 2062  
Tookey, H. L. 2115  
Toole, B. P. 1309  
Topi, G. C. 5029  
Toraya, T. 760  
Torbertini, O. 1210  
Torgovanova, T. B. 2667  
Tornabene, T. G. 1487  
Torok, F. 1938, 4400  
Torrent, M. T. 3881  
Torrents Pont, J. 838  
Torres J. 978  
Torresani, J. 3987  
Torsvik, H. 4992  
Torti, G. 3639

- Tortolani, G. 3193, 5030  
 Tosa, T. 1325, 4711, 4717  
 Toth, G. B. 4885  
 Toth, I. 3300, 3304, 4733  
 Tóth, L. 1557  
 Totsugawa, K. 1525  
 Touchstone, J. C. 1497, 3253, 3695  
 Touitou, Y. 236  
 Toulza, C. 3374  
 Towers, G. H. N. 5198  
 Town, W. R. 445  
 Townley, R. R. W. 4000  
 Townsend, R. P. 1389  
 Toyoda, R. 56, 1776  
 Trager, P. G. 317  
 Trash, C. R. 555  
 Traut, R. R. 512, 3451  
 Travis, J. 2039, 2472, 4191, 5460  
 Treiber, L. 2259  
 Trelstad, R. L. 1309, 2061, 5183, 5436  
 Tremblay, M. 1365  
 Tressl, R. 79  
 Tret'yak, M. G. 3348, 4906  
 Trevor, A. J. 2638  
 Triantaphyllopoulos, E. 4171  
 Trim, A. R. 5474  
 Trimm, J. R. 2756  
 Tripathi, R. K. 4426  
 Tripathy, H. 4896  
 Tritsch, G. L. 4995  
 Trittelvitz, E. 4468  
 Trivin, F. 4894  
 Trnka, A. 588  
 Troepolskaya, T. G. 5246  
 Trombetti, G. 121  
 Tronchet, J. M. J. 2780, 2781, 4881  
 Tronson, D. A. 2927  
 Troup, J. M. 1204  
 Truby, M. F. 5189, 5444  
 Trucco, R. E. 4855  
 Trudinger, P. A. 4037  
 Truppe, W. 289, 3886  
 Truter, E. V. 4551  
 Tsai, H. C. 3775  
 Tsai, M. Y. 2469  
 Tsai, Y. H. 1527  
 Tsang, P. H. S. 5053  
 Tsarichenko, A. P. 130, 131  
 Tsay, K.-Y. 2067  
 Tschertter, H. 5354  
 Tschesche, H. 3704  
 Tsendrovskaya, V. A. 281, 1464, 3360, 3874  
 Tsiapalis, C. M. 735, 1038  
 Tsinberg, M. B. 422  
 Tsintsevich, E. P. 3852  
 Tsitovich, I. K. 1253, 4257  
 Tsitsishvili, G. V. 3006, 3022, 3029, 3038, 3039, 3046  
 Tsivina, N. Z. 864  
 Tsodikov, M. V. 3571  
 Tsong, Y. Y. 1495  
 Tsuchiya, K. 3923, 4406  
 Tsuda, T. 44, 4575, 5050, 5131  
 Tsuge, H. 1706, 2346, 2347, 3665, 5104, 5229  
 Tsuge, S. 532, 1733  
 Tsuiki, S. 3759  
 Tsuji, A. 668, 2010, 3598  
 Tsuji, K. 5226  
 Tsujino, G. 5429  
 Tsukamoto, H. 4485  
 Tsukida, K. 902  
 Tsukui, R. 2961  
 Tsukui, Y. 3891  
 Tsunakawa, N. 5333  
 Tsyperovich, A. S. 4758  
 Tu, C. C. 1539  
 Tucker, J. 3489  
 Tucker, R. G. 4633  
 Tudorovskaya, G. L. 3106  
 Tuegel, Ch. R. 863  
 Tuichibaev, M. U. 778  
 Tulloch, A. P. 3077  
 Tung, F. 4765  
 Tunis, F. 4915  
 Tupitsin, G. I. 5090  
 Turakulov, Ya. Kh. 2020, 2029, 2070  
 Turano, P. 5280  
 Turchinsky, M. F. 2319  
 Turgel, E. O. 4844  
 Turk, V. 3672  
 Turkel'taub, G. N. 1758, 1763, 2538  
 Turková, J. 3658, 3750  
 Turkova, L. D. 526  
 Turkvan, M. 1584  
 Turner, A. K. 1496  
 Turner, B. J. 2475  
 Turner, C. E. 4445  
 Turner, L. P. 1239, 3410  
 Turner, N. A. 4454  
 Turner, Wm. J. 5280  
 Turnock, G. 1676  
 Turovskaya, R. V. 4136  
 Turovskii, A. A. 4860  
 Turowska, A. 4145  
 Turpin, A. 4022  
 Turtle, J. R. 2412  
 Tusak, T. 385  
 Tuzimura, K. 887  
 Tverskaya, B. M. 919, 3935  
 Twardowski, T. 3727  
 Tweedle, J. W. 1053  
 Twigger, A. D. 4124  
 Tydén-Ericsson, I. 3040

Tyihak, E. 2760  
 Tyllová, M. 2358  
 Tyukavkina, N. A. 4684  
 Tzagoloff, A. 499  
 Tzicas, E. 1438

## U

Ubasawa, M. 3233  
 Ubík, U. 588  
 Ubuka, T. 3705  
 Uchida, K. 2737  
 Uchida, T. 726  
 Uchino, H. 768, 1033  
 Uchiyama, M. 5301  
 Uchiyama, T. 3497  
 Uchytlová, V. 1589  
 Uda, F. 809, 3214  
 Uden, P. C. 1154  
 Udenfriend, S. 301, 5199  
 Udvardy, A. 1350  
 Ueda, S. 1220  
 Uehara, K. 5247  
 Ueno, K. 4785  
 Uenoyama, K. 869  
 Uesaka, M. 760  
 Uglea, C. V. 4265  
 Uhrová, Z. 5282  
 Ui, N. 1602  
 Uihlein, M. 564  
 Uitto, J. 5184, 5437  
 Ujházy, V. 4064  
 Úlehlová, E. 3696  
 Ul-Islam, K. 3593  
 Ulubelen, A. 1508  
 Umanskaya, A. N. 4413  
 Umberger, C. J. 951  
 Umezawa, H. 1524, 4384, 4407, 5364, 5368,  
 5371  
 Umezawa, S. 4384  
 Umstead, M. E. 1133  
 Unay, O. 1508  
 Unbehend, M. 3144  
 Underhill, D. W. 1075, 4098  
 Unemoto, T. 2100  
 Ungar, F. 515, 3305  
 Unger, K. 1907, 1908, 4576  
 Unkovskii, B. V. 584  
 Uno, T. 56, 1776  
 Unzeta, M. 3721  
 Uotila, L. 3498, 3754  
 Updyke, T. V. 5145  
 Uporova, G. I. 3939  
 Uralets, V. P. 3075  
 Urbancova, J. 3813  
 Urbano, P. 153, 453

Urbański, T. 2298  
 Ureta, T. 2692  
 Urushizaki, I. 3978, 4228  
 Usacheva, G. M. 3059, 3063  
 Usategui-Gomez, M. 1645, 4973  
 Usenko, V. F. 864  
 Ushatskii, V. N. 222  
 Usorov, M. I. 91  
 Ustinova, A. M. 4860  
 Ustinovskaya, I. A. 3023, 3111  
 Ustraikh, M. A. 5062  
 Usui, T. 4358  
 Usui, Y. 3078  
 Uthe, J. F. 926  
 Uzan, P. 5394  
 Uzun, A. T. 3087

## V

Vachnadze, V. Yu. 895, 3920  
 Vacková, M. 4927  
 Vader, H. L. 73  
 Vadsaz, J. 2699  
 Vaerman, J.-P. 134, 406  
 Vagabov, M. V. 2561  
 Vagelos, P. R. 3181, 4537  
 Vagina, N. S. 4942  
 Vail, M. S. 2037  
 Vaintraub, F. P. 3882  
 Vaintraub, I. A. 398  
 Vaisberg, K. M. 1764  
 Vakhobov, A. Kh. 225  
 Vakhrusheva, G. I. 2546  
 Valanju, N. N. 1556  
 Valanju, S. N. 1556  
 Valdebouze, P. 3519, 4405  
 Vale, V. 4382  
 Valenta, V. 3800  
 Valentine, D. K. 2433  
 Valenzuela, P. 1944  
 Valinger, Z. 4983  
 Valk, P. E. 2718  
 Valkova, A. 986  
 Vallee, A. M. 216, 1402, 4283  
 Valovičová, E. 1426, 2670  
 Valueva, T. A. 1303  
 Valzelli, G. 954  
 Vamos, J. 850  
 Vamos-Vigyazo, L. 2480  
 Van Abbé, N. J. 5258  
 Vanaman, T. C. 3428  
 Vanatta, J. R. 3109  
 Van Boekel-Mol, T. N. 715  
 Vance, C. P. 5198  
 Vance, D. E. 2696, 3182  
 Vance, Jr., T. B. 5144

- Vandamme, D. 860  
 Van Deenen, L. L. M. 3724  
 Vandekerckhove, J. 5419  
 Vandekerckhove, P. 2003  
 Van den Berg, H. 3617  
 Van den Broek, H. W. J. 1312  
 Van den Broek, W. G. M. 1643  
 Van den Eijnden, D. H. 4833  
 VandenHeuvel, W. J. A. 3080, 4651  
 Van den Hoed, N. 1861  
 Van der Bijl, P. 2811  
 Vanderborgh, N. E. 4102, 4103  
 Vanderhaeghe, H. 1806, 3929  
 Van der Heiden, C. 250, 2137, 2888  
 Vanderhoff, J. W. 4546  
 Van der Koogh-Schuuring, R. 3002  
 Van der Linden, R. 1918  
 Van der Meijden, J. 1132  
 Van der Meulen, T. 2564  
 Van der Ouderaa, F. J. 3998  
 Van der Stichelen Rogier, M. 2451  
 Van der Velde, H. H. 151, 449  
 Van der Vlist, E. 1132  
 Van der Westhuizen, D. R. 4225  
 Van de Sande, J. H. 4388  
 Van de Weerdhof, T. 2160  
 Van Diggelen, O. P. 1724  
 Van Dijk, J. H. 104  
 Van Dongen, C. A. M. 1572  
 Van Duijn, P. 3195  
 Van Dyck, J. 2567  
 Van Dyk, M. 5058  
 Vaněčková, J. 1292, 1601  
 Van Eerd, J.-P. 4012  
 Van Gennip, A. H. 250, 2137  
 Van Gent, C. M. 2811  
 Van Gils, W. F. 4001  
 Van Ginneken, C. A. M. 1170, 2772  
 Van Golde, L. M. G. 4360  
 Vanhaelen, M. 2847  
 Vanheertum, R. 1275, 1994  
 Van Heijenoort, J. 1720, 2210  
 Van Hoof, F. 4446  
 Van Kamp, G. J. 466, 4749  
 Van Kerchove, C. 2883  
 Van Kleef, F. S. M. 4749  
 Vanko, M. 5391  
 Van Kraaikamp, M. W. G. 452, 705  
 Van Kreveld, M. E. 1861  
 Van Lancker, M. 3942  
 Vanluchene, E. 2567, 4610  
 Van Marrenwijk, W. J. A. 5172  
 Van Montagu, M. 5419  
 Van Olst, H. 3617  
 Van Ooij, W. J. 1462, 1573  
 Van Peteghem, C. 3356  
 Van Rensburg, J. F. J. 1876  
 Van Rietschoten, J. 710, 1016  
 Van Roost, E. 3418  
 Van Rossum, J. M. 635, 1170, 5110, 5111  
 Van Steenberghe Horrocks, W. 4898  
 Vantrappen, G. R. 2836  
 Van Urk-Schoen, A. M. 2611  
 Van Welzen, H. 2405  
 Van Westreenen, H. 2071  
 Van Wheeler, A. 4148  
 Van Wijk, R. 2587  
 Van Zon, A. 2832  
 Varadarajula, P. 1637  
 Varga, J. M. 1507  
 Vargas, M. G. 844, 5312  
 Varghese, A. J. 2742  
 Varhelyi, C. 1563  
 Varma, K. C. 2729  
 Varma, R. 3071  
 Varma, R. S. 3071  
 Varricchio, F. 2839  
 Varshai, G. M. 2233, 4451, 5265  
 Varshney, K. G. 1449  
 Vartanyan, L. S. 1649  
 Vasconcelos, A. C. 1687  
 Vasilescu, F. 4357  
 Vasil'ev, V. Yu. 736  
 Vasil'eva, R. V. 1232  
 Vasil'eva, V. K. 2572  
 Vasilevskaya, N. A. 5228  
 Vasilikiotis, G. S. 856  
 Vasu, S.-S. 2943  
 Vasuari, G. 1899  
 Vasyutin, V. P. 1835  
 Vauchskii, Yu. P. 634  
 Vaughan, C. G. 650  
 Vaughan, M. H. 1683  
 Vaughan Williams, H. R. 288  
 Vaughn, J. G. 4210  
 Vazquez, D. 3243  
 Včelák, V. 3566  
 Vdovenko, N. V. 3053  
 Vecchi, M. 2161, 3100  
 Večerek, B. 2908, 2909, 4960  
 Večerková, J. 4927  
 Veening, H. 3113, 3624, 3625, 4685, 5166  
 Vegh, L. 2782, 2783  
 Veis, A. 1618, 2045  
 Veitch, F. P. 3632  
 Vekshtein, M. Sh. 931, 2324  
 Velcheva, B. I. 3114  
 Veldstra, H. 4522  
 Velichko, V. V. 1640  
 Vella, F. 4495  
 Vel'tishchev, Yu. E. 4996  
 Venetianer, P. 1350  
 Venkataraman, S. 4039  
 Venskevicius, J. 455



- Vento, R. 4821  
Ventrelli, I. 1627  
Ventura, L. 349  
Venturella, V. S. 1795  
Venturini, A. 3869  
Verbeek, A. M. 2532  
Verbert, A. 2481  
Verblyudova, N. I. 932  
Vercruyssen, A. 2879  
Verdlov, E. D. 4882  
Verdu, J. 938  
Vergani, C. 3420  
Vergnaud, J.-M. 561, 1190  
Verheij, H. M. 235  
Verhülsdonk, C. A. H. 4327  
Verly, W. G. 1696  
Verma, I. M. 1703  
Verma, S. K. 1556  
Vermont, J. 2541  
Verner, D. 4637  
Verney, A.-M. 4338  
Vernon, F. 803, 3024, 3802, 4564  
Veronese, F. M. 4752, 5015  
Verschraege, L. 3942  
Versey, J. M. B. 2900  
Vershinin, P. V. 4417  
Versino, C. 1234  
Verwey, A. M. 3332  
Verzele, M. 2567, 4610  
Verzhbitskaya, V. D. 3827  
Vesa, U. 1284  
Vesco, C. 795, 1063  
Vesell, E. S. 3470  
Veselov, V. V. 3115  
Veselova, L. N. 2790  
Vesely, J. 2161, 3100  
Vesely, Z. 1910  
Vessman, J. 3088  
Vesterberg, D. 102  
Vestling, C. S. 5200  
Vetter, W. 4839  
Vevere, L. 203  
Veyrat, G. 933  
Viala, A. 899  
Viau, J. P. 354  
Vickers, C. 2855  
Victor, A. H. 4691  
Vida, G. 3849  
Vidal, G. P. 3999, 4221  
Vidal, P. de Almeida 3357, 3940  
Videla, G. J. 3572  
Vidrine, D. W. 4323  
Vidrine, J. G. 1680  
Vigalok, R. V. 3018, 3025, 3064  
Vigdergauz, M. S. 580, 1076, 1116, 1117, 1762, 2504, 3009-3011, 3018, 3021, 3025-3027, 3044, 3059, 3061, 3064, 3107  
Vigh, G. 4157  
Vignais, P. M. 2229  
Vignais, P. V. 2229, 5300  
Vigne, C. 115, 390  
Viinikka, L. 4209  
Viktora, L. 3813  
Viktorova, E. A. 2561  
Vilbok, H. 963  
Vilceanu, R. 1519, 1801, 1802  
Vilchez-Martinez, J. A. 5334  
Vilenchik, L. Z. 8, 9  
Viljoen, C. C. 2673  
Vilkas, E. 2727  
Villanueva, E. 425  
Villemez, C. L. 3825  
Villiermaux, J. 1862  
Vincent, A. 3361  
Vincze, Z. 3921  
Vincze-Vermes, M. 3921  
Vink, D. 2587  
Vinogradov, S. N. 3403, 4509  
Vinskovskaya, T. I. 2283  
Vints, V. V. 1800  
Viogue, E. 4859  
Virella, G. 2406, 4482, 5009  
Viscontini, M. 2860, 4899, 4900  
Viska, J. 5281, 5282  
Visser, L. 740  
Viswanathan, G. V. 2812, 3291, 4361  
Visweswariah, K. 4909  
Vitello, L. 4204, 4487  
Vittek, J. 661  
Vladovska-Yukhnovska, Y. 3927, 5298  
Vlasenko, L. M. 3895  
Vlasov, V. V. 2138  
Vliedhart, J. F. G. 250, 2888  
Vlietinck, A. 3929  
Voapen, D. J. 4461  
Voegeli, J. T. 595  
Völlmin, J. A. 1178  
Voelter, W. 4032  
Voetsch, W. 4032  
Vogel, J. 933  
Vogel, O. 988  
Voght, W. 4987  
Vogt, W. 433  
Voicou, A. 3346  
Voinarskii, I. N. 3177  
Voinova, I. V. 1534  
Voitkevich, S. A. 1774  
Volek, J. 578  
Volf, J. 566  
Vol'fson, V. 4069  
Vol'khin, V. V. 4285  
Volkotrub, M. M. 4136  
Volkov, S. A. 1112-1114, 1121, 1122, 2531, 2539

- Volkov, Yu. P. 934  
 Volkova, A. I. 1840, 4678  
 Volkova, G. G. 3097, 3239  
 Volkova, V. A. 2282  
 Vollert, U. 2550  
 Vollmer, C. A. 3248  
 Volobuev, N. K. 3549  
 Volodina, A. D. 3957  
 Volpi-Becchi, M. A. 758  
 Volpin, D. 1285, 1286, 1618, 2045  
 Volynets, M. P. 3375, 4942, 4943  
 Volynskii, N. P. 5095  
 Volz, M. 4935  
 Vondruška, M. 3218  
 Von Holt, C. 4225  
 Vonk, H. J. 2204  
 Vonnahme, P. 278  
 Von Reutern, G. M. 3372  
 Vooro, H. 2453  
 Vorob'ev, N. E. 1422  
 Vorob'eva, V. G. 5075  
 Vorobjov, V. 336, 1164  
 Vorobyoeva, R. G. 1893  
 Vorona, E. N. 1218  
 Voronko, B. I. 1783  
 Voronkina, T. M. 823, 2794  
 Voronkova, V. V. 2340  
 Voronova, T. G. 4459  
 Vosbeck, K. D. 3499, 3755  
 Voslar, J. 265  
 Vossenber, F. G. A. 1268  
 Votavová, H. 3767  
 Votruba, I. 2743  
 Votruba, M. 2824  
 Vovnyanko, E. K. 3238  
 Voynick, I. M. 3743  
 Vrba, M. 970  
 Vree, T. B. 635, 1170, 2772  
 Vries, A. 2474  
 Vselyubovskaya, O. A. 4617  
 Vtorov, B. G. 2630  
 Vtorova, Z. E. 2862  
 Vujcic, I. F. 2681  
 Vulpis, G. 4496  
 Vyakhirev, D. A. 1123, 1124, 2539, 2540  
 Vyazankin, N. S. 548, 612  
 Vycudilik, W. 3072  
 Vykhrstyuk, N. I. 47  
 Vylegzhanina, G. F. 935, 3358  
 Vysotskii, N. N. 2297, 3897  
 Vystrčil, A. 663, 3696, 3698, 3699, 5164
- W**
- Waalkes, T. P. 5165  
 Wada, H. 797  
 Wada, M. 2422, 2497, 4993  
 Wada, N. 5061, 5146  
 Wade, R. L. 3031  
 Wadel, O. 1278  
 Wadelin, C. W. 4636  
 Wadman, S. K. 250, 2137, 2888  
 Wadsroth, J. I. 2624  
 Wadström, T. 3972, 4237  
 Wagman, G. H. 4317, 4553  
 Wagner, F. W. 184  
 Wagner, H. 4376, 5291, 5395  
 Wagner, H.-J. 4504  
 Wahlberg, I. 4125  
 Wahner, H. W. 4307  
 Wainwright, L. K. 783  
 Wainwright, S. D. 783  
 Waisser, K. 3699  
 Wakely, P. J. 4551  
 Wakelyn, P. J. 937  
 Waki, H. 1407  
 Waksmundzki, A. 26, 556, 1756, 2507, 2522, 2533  
 Wal, J. M. 4414  
 Walch, A. 2112  
 Walczyk, K. 5304  
 Waldström, T. 2912  
 Walker, I. O. 440  
 Walker, J. L. 2545  
 Walker, J. Q. 2505, 3028  
 Walker, J. R. L. 4292  
 Walker, N. J. 652  
 Walker, P. R. 3485  
 Walker, R. T. 3911  
 Walker, R. W. 4651  
 Wallace, W. 4759  
 Wallach, D. F. H. 1614, 1622, 4383, 4492  
 Wallén, P. 3160  
 Wallevik, K. 2957, 3404  
 Wallin-Nilsson, M. 1667  
 Walradt, J. P. 3204  
 Walsh, J. T. 1414  
 Walsh, K. A. 1324, 1936  
 Walters, C. L. 2665  
 Walters, R. A. 1004, 4014  
 Waltking, A. E. 3069, 4843  
 Walton, H. F. 4267, 4686, 5132  
 Walton, T. J. 3878  
 Wanaka, N. 4343  
 Wang, C. S. 2409  
 Wang, J. H. 1021  
 Wang, J. Hsueh-Ching 478  
 Wang, J. L. 3989  
 Wang, P. 2646  
 Wang, R. T. 1527  
 Wang, T. H. 1021  
 Wanjura, L. 2669  
 Wannamaker, B. B. 467

- Ward, J. R. 1403  
 Ward, R. M. 1248  
 Wardi, A. H. 3071  
 Wardyńska, H. 5362  
 Ware, G. M. 4329  
 Waring, R. H. 76  
 Warkentin, D. L. 1652  
 Warmbier, M. 5313  
 Warnecke, P. 5027  
 Warner, C. R. 1757  
 Warner, J. R. 1683  
 Warner, J. S. 4394, 4618  
 Warnhoff, E. W. 3586  
 Warren, C. D. 4402, 4403  
 Warren, R. A. J. 2149, 2316  
 Warwel, S. 1780  
 Washington, R. J. 299, 1282  
 Waskiewicz, R. D. 793  
 Wasowicz, E. 31  
 Wassel, G. M. 1441  
 Wasserman, A. R. 3731  
 Wasserman, R. H. 2967  
 Watanabe, A. 4530  
 Watanabe, H. 1525, 3373  
 Watanabe, K. 1981  
 Watanabe, S. 1873, 2655, 3076, 3078, 3079, 4197  
 Watanabe, T. 737  
 Wataya, Y. 3836  
 Waters, B. 2699  
 Waters, J. L. 1932  
 Waters, L. C. 1344  
 Waters, S. L. 1411  
 Waterson, R. M. 3405, 3760  
 Watkins, P. D. 4317  
 Watkins, W. D. 2592  
 Watson, E. S. 3121  
 Watson, J. T. 3557, 4640  
 Watson, P. R. 3856  
 Watson, S. C. 3045  
 Watt, W. B. 140, 417, 1621  
 Watts, R. B. 5043, 5085  
 Watts, R. W. E. 4585  
 Wdowin, A. 567  
 Weaver, Ch. L. 1409  
 Weaver, J. W. 3611  
 Webb, K. S. 1148  
 Webb, R. G. 1813  
 Webber, L. R. 4108  
 Weber, F. 4961  
 Weber, G. 3926  
 Weber, H. 4478  
 Weber, T. H. 1974, 2923  
 Webster, Jr., L. T. 3118  
 Wedekind, U. 397, 884  
 Weeke, B. 2951  
 Weeke, J. 649  
 Wegener, L. 4740  
 Weglowska, W. 4928  
 Wegrzynek, J. 842  
 Wehner, H. 1412, 2202  
 Wehnert, H.-U. 2773, 4937  
 Wei, R. D. 4339  
 Weidekamm, E. 1622  
 Weidner, J. P. 1086  
 Weigand, N. 1205  
 Weigel, R. 568  
 Weigert, P. 2971  
 Weigle, D. T. 1020  
 Weihrauch, J. L. 4114  
 Weil, L. 5101  
 Weil, P. A. 3390  
 Wein, M. 4272  
 Weinert, C. H. S. W. 4691  
 Weinhouse, S. 4477  
 Weinstein, M. J. 4553  
 Weintraub, H. 396  
 Weis, W. 4478  
 Weise, M. J. 2274  
 Weisenborn, F. L. 1435  
 Weiser, H. 2747  
 Weiss, J. B. 4978  
 Weiss, P. A. M. 871  
 Weissbach, A. 3761  
 Weissbach, H. 785, 789  
 Weissman, S. M. 2839  
 Weisz, H. 2723  
 Welch, M. J. 2717  
 Welinder, K. 673  
 Wells, J. 3103  
 Wells, P. R. 3069  
 Wels, C. M. 3191  
 Welsch, F. 5193, 5448  
 Wenberg, G. M. 2461  
 Wendelin, W. 2795  
 Wenker, K. 360  
 Wentworth, W. E. 1177  
 Wenzel, M. 2768, 4324, 4510, 5268  
 Werner, J. K. 2456  
 Werner, R. L. 1155  
 Werner, W. 2892  
 Werner-Zamojska, F. 2660, 4208  
 Werries, E. 1982, 2928  
 Werthamer, S. 3445  
 Weser, U. 4032  
 Wesley-Hadzija, B. 347  
 Wessels, H. 2813  
 West, T. S. 2514  
 Westergaard, O. 3521, 3815  
 Westerman, L. 1372  
 Westgarth, D. R. 65  
 Westhead, E. W. 2393, 2467, 2683, 2689  
 Westlake, D. W. S. 4243  
 Westlake, W. E. 1162

- Westphal, O. 4296  
 Westphal, U. 2958  
 Wetsermann, D. H. 4736  
 Wharton, D. C. 150, 164, 447, 468  
 Wheals, B. B. 650, 2593  
 Wherrett, J. R. 866, 1481, 3292  
 Whistler, R. L. 2222  
 Whitacre, D. M. 3931  
 Whitaker, J. R. 3725, 4031  
 Whitaker, T. R. 322, 761  
 White, B. N. 2143, 2841, 3766  
 White, E. L. 3470, 5204, 5456  
 White, G. R. 1169  
 White, J. L. 214, 339  
 White, J. S. 1692  
 White, L. B. 4400  
 White, R. 1997  
 Whitehead, P. 2514  
 Whitehouse, M. J. 650  
 Whitekettle, W. K. 5475  
 Whiteley, A. H. 5439  
 Whiteley, H. R. 3477, 3734, 5439  
 Whitmore, E. 4006  
 Whitney, P. L. 1945  
 Whitt, G. S. 2465  
 Whittell, N. M. 2470  
 Whittlemore, I. M. 4589  
 Whyte, J. N. C. 3070, 4599  
 Wiame, J.-M. 2117  
 Wičar, S. 2506  
 Wick, E. I. 1182  
 Wick, F. R. 5052  
 Wicke, E. 2622, 4072  
 Wickerhauser, M. 3416  
 Wickremasinghe, R. L. 1182  
 Widen, C. J. 3849  
 Widmer, U. 2770  
 Wiebers, J. L. 3831  
 Wiedemann, H. 3643  
 Wiederanders, B. 1668  
 Wiederschain, G. Ya. 3762  
 Wiedner, G. 3503  
 Wiegandt, H. 974, 2933, 5248  
 Wien, R. G. 4613  
 Wieniawski, W. 4845, 5294  
 Wienstein, M. J. 4317  
 Wiersum, M. L. 2160  
 Wight, J. 3209  
 Wightman, R. 1674  
 Wightman, R. H. 2743  
 Wigle, D. T. 806, 1071  
 Wijsbeek, J. 1546  
 Wilairat, P. 2046  
 Wilchek, M. 1332, 2647, 3644  
 Wild, D. G. 2950  
 Wildanger, W. A. 2205  
 Wilde, Ch. E. 2938  
 Wilde, III, Ch. F. 3119  
 Wildgrube, H. J. 2814  
 Wiley, E. R. 1310  
 Wilke, B. 1568  
 Wilkins, C. K. 3667  
 Wilkinson, D. S. 1053  
 Wilkinson, R. G. 4714, 5242  
 Wilkinson, R. J. 618  
 Wilkinson, S. G. 3883, 4803  
 Wilks, Jr., R. A. 4394, 4618  
 Wille, L. E. 3985, 4994  
 Willemot, J. 4344  
 Willert, H.-G. 1814  
 Williams, Jr., C. H. 5010  
 Williams, C. M. 4647  
 Williams, C. N. 1492  
 Williams, D. C. 1931  
 Williams, D. L. 3033, 4311  
 Williams, F. W. 4571  
 Williams, I. H. 2652, 4109  
 Williams, K. M. 4126  
 Williams, R. C. 1911, 2133, 4774  
 Williams, Jr., R. C. 2067  
 Williams, R. T. 247, 248, 3845, 3846, 3847  
 Williams, S. 1631  
 Williams, T. 861  
 Williams-Ashman, H. G. 3462  
 Williamson, B. 5114  
 Williamson, D. E. 2321  
 Williamson, J. R. 119  
 Williamson, R. 5348, 5472  
 Willigmann, R. P. 3372  
 Willis, R. B. 1236  
 Wilson, B. J. 4328  
 Wilson, C. M. 1439  
 Wilson, D. A. 4766  
 Wilson, D. J. 4556  
 Wilson, E. M. 3384  
 Wilson, F. R. 2465  
 Wilson, G. 3979  
 Wilson, K. A. 2462  
 Wilson, K. J. 2081  
 Wilson, L. 5117  
 Wilson, W. L. 328, 2864, 4415  
 Wilson Pitt, Jr., W. 5166  
 Wiltshire, B. G. 146, 442, 3991  
 Wiman, B. 3988  
 Winand, R. J. 1586  
 Winand, R. U. 1972  
 Winchester, R. V. 1254  
 Windemann, H. 4974  
 Windmueller, H. G. 2415, 4519  
 Wingert, L. A. 5230, 5235, 5236  
 Winkler, L. 975, 1983  
 Winters, M. A. 3486, 3739  
 Winzor, D. J. 89, 1865, 3116  
 Wirtz, K. W. A. 3461, 3724

- Wishman, C. A. 4475  
Wissler, R. 4204, 4487  
Witekowa, S. 4593  
Withers, M. K. 557  
Witte, A. H. 3332  
Witte, I. 195  
Witting, U. 3366, 4924  
Wittman-Liebold, B. 5341  
Wittwer, Jr., J. D. 1354, 3773  
Woeller, F. H. 4427  
Woitke, H.-D. 3308  
Wojcicki, A. 4253  
Wojcik, E. 2752  
Wójcik, Z. 3359  
Wold, F. 1323  
Wold, S. 536  
Wolf, A. 433  
Wolf, C. J. 3028  
Wolf, G. 657  
Wolf, H. U. 2289, 2410  
Wolf, III, J. P. 1229  
Wolf, III, J. S. 1680  
Wolf, M. 574, 847  
Wolff, H. 3430  
Wolff, J. S. 3513  
Wolfrum, D. I. 4480  
Wolfrum, E. 5072  
Wollmanová, D. 4278  
Wong, A. W. 2416  
Wong, K. C. 4192  
Wong, Y.-I. 3149  
Wood, J. G. 4033  
Wood, J. M. 4773  
Wood, P. J. 1736  
Wood, T. 496  
Woodall, D. L. 2037  
Woodis, Jr., T. C. 2756  
Woods, J. S. 4141  
Woods, T. F. 2648  
Woodward, D. O. 239  
Woodward, W. R. 2046  
Woolford, G. 2665  
Worowski, K. 3750  
Worthen, L. R. 2581  
Wortmann, B. 1497  
Wortmann, W. 1497, 3695  
Wotiz, H. H. 600  
Wouters-Tyrou, D. 5186, 5441  
Woynarowski, J. M. 699, 1869  
Wraxall, B. G. D. 450  
Wright, A. N. 2867  
Wright, D. A. 2988  
Wright, D. L. 4535  
Wright, R. 2227  
Wronska, J. 3313  
Wronski, M. 4539  
Wu, C.-Y. 1355  
Wu, Cheng-Yi 793  
Wu, F. C. 2973  
Wu, J.-Y. 2124, 2987  
Wu, L. 3480  
Wu, M. 5242  
Wu, R. 3509  
Wu, W. H. 2125  
Wuensch, A. 4741  
Wuest, G. 3366  
Wüst, H. 4447  
Wuntch, T. 2468  
Wurst, M. 3099  
Wyatt, D. K. 344  
Wyler, H. 4852  
Wynngaarden, J. B. 3735  
Wynn, M. 2426  
Wynne-Roberts, R. C. 1993  
Wyszynska, T. 2997
- Y
- Yablokova, O. G. 812  
Yacoub, E. A. K. 3024  
Yadomae, T. 5161, 5411  
Yaegashi, M. 4052, 4240  
Yagi, K. 2047  
Yagisawa, Y. 5364  
Yagishita, K. 1897  
Yagodin, G. A. 253  
Yagupolskii, L. M. 563  
Yakovlev, D. A. 3271  
Yakovlev, P. Ya. 4793  
Yakubenok, V. V. 63  
Yakubson, Z. V. 5069  
Yamabe, T. 219, 361, 1185, 1836, 1909, 2196, 3199  
Yamada, H. 5161, 5411  
Yamada, K. 1824  
Yamada, M. 754, 1082  
Yamada, S. 2651, 2902  
Yamada, T. 867, 2177  
Yamada, Y. 734  
Yamagata, T. 3215, 3415, 3675  
Yamagishi, N. 1168  
Yamaguchi, H. 202  
Yamaguchi, J. 3502, 3758  
Yamaguchi, M. 472  
Yamaguchi, T. 492, 755  
Yamaji, A. 1793  
Yamakawa, T. 1257, 5307  
Yamakawa, Y. 493  
Yamaki, N. 5067  
Yamamoto, A. 1217  
Yamamoto, H. 4407, 4834, 5211, 5471  
Yamamoto, I. 1160  
Yamamoto, K. 437, 1325, 4717, 5307

- Yamamoto, M. 670, 1288, 3202, 4792  
Yamamoto, Y. 1873, 3202, 4253, 4792  
Yamamura, H. I. 189  
Yamanaka, T. 166  
Yamane, K. 1046  
Yamanishi, T. 1182  
Yamasaki, M. 2604  
Yamashina, I. 487, 749  
Yamashiro, D. 3707  
Yamashiro, S. 4802  
Yamashita, I. 3580  
Yamashita, T. 3938  
Yamashita, Y. 915  
Yamatova, R. Sh. 3893  
Yamazaki, T. 4406  
Yamazaki, Y. 261, 837  
Yanagida, R. Y. 5144  
Yanagisawa, I. 4298  
Yanagiya, T. 4231  
Yang, Ch. H. 3821  
Yang, M.-T. 590  
Yang, W.-K. 1344  
Yankofsky, S. A. 1346  
Yankova, N. 3151  
Yankovskaya, L. A. 4816  
Yano, A. 5429  
Yano, T. 148, 444  
Yanofsky, C. 2034, 2035  
Yanotovskii, M. Ts. 4617  
Yanovskii, S. M. 3534, 4096, 4107  
Yao, K. 3705  
Yao, R. C. 4332  
Yapa, P. A. J. 3406  
Yarmchuk, L. 1504  
Yaroslavtseva, T. S. 95  
Yarovenko, V. L. 3177  
Yarovoi, S. S. 3589  
Yarpovetskii, L. Ya. 3066, 3535  
Yarrison, G. 392  
Yarus, M. 3756  
Yashin, Ya. I. 37, 548, 579, 612, 1201, 1740,  
1828, 2630, 5129  
Yashin, Ya. O. 1893  
Yaskovich, A. G. 3827  
Yassa, D. A. 2859  
Yasuda, K. 4380  
Yasuda, Y. 3997  
Yasui, T. 3123  
Yasunobu, K. T. 2044, 3712  
Yatsenko, S. S. 575  
Yazaki, Y. 4010, 5003  
Yazawa, Y. 2047  
Yeager, F. M. 4973  
Yegian, Ch. D. 5349  
Yeh, H. S. J. 3380, 3751  
Yeoman, L. C. 2964  
Yeomans, M. A. 1509  
Yeransian, J. A. 4661  
Yip, C. C. 1287  
Yip, I. C. 479  
Yip, L. C. 172  
Y.Lopez, R. M. 1644  
Yoch, D. C. 3715, 4020  
Yokota, Y. 3891  
Yokoyama, T. 5309  
Yoneda, H. 1070  
Yoneda, Y. 1046  
Yonetani, T. 313, 314, 3335  
Yonezawa, C. 1408, 2022  
Yonezawa, D. 2899  
Yonezawa, H. 2022  
Yong, H. S. 2959  
Yoo, B. Y. 441, 700  
Yoshida, F. 5209, 5463  
Yoshida, N. 5262  
Yoshida, R. 4946  
Yoshida, T. 1837, 4430  
Yoshida, Y. 4133  
Yoshikawa, A. 516  
Yoshikawa, H. 4298  
Yoshikawa, K. 2702  
Yoshikawa, M. 709  
Yoshikawa, S. 3580  
Yoshikuni, N. 3853  
Yoshimura, Y. 4242, 4474  
Yoshinaka, Y. 4764  
Yoshioka, M. 4174  
Yoshiyasu, K. 2450  
Yoshizawa, K. 4350  
Yost, R. W. 105  
Young, J. D. 3562  
Young, J. L. 670, 1288  
Young, J. W. 1804  
Young, N. M. 4193  
Young, R. J. 5475  
Young, R. M. 5108  
Younker, D. R. 5051  
Yowell, R. L. 2209  
Yuan, M. 4395  
Yuan, S. L. 3118  
Yue, R. H. 3480  
Yufit, S. S. 1774  
Yukhno, G. F. 1542  
Yuki, H. 1793  
Yukiyama, Y. 3824  
Yuldashev, P. Kh. 3315  
Yulikova, E. P. 701  
Yung, S. 1358, 3402, 3432  
Yung-Chi-Chang 2397  
Yunis, A. A. 1030  
Yunusov, S. Yu. 3920  
Yurel, S. P. 3085  
Yur'eva, E. A. 4996  
Yushina, G. A. 4090

Yuzefovich, V. I. 78

**Z**

- Zabaluev, V. V. 2523  
Zabik, M. J. 3600  
Zabunova, E. 2877  
Zachau, H. G. 786, 1062  
Zadák, Z. 1910  
Zadeczký, S. 2354  
Zadrazil, S. 1347, 4248  
Zagats, R. 494  
Zagórski, Z. 3359  
Zahn, R. K. 3216, 3763  
Zahradníček, M. 4883  
Zaitsev, P. M. 3066  
Zaitseva, G. E. 579  
Zajac, M. 3844  
Zakareia, N. 2185  
Zakgeim, D. A. 223  
Zakharenko, V. A. 3571  
Zakupra, V. A. 583  
Zakurenov, V. M. 38  
Zaletskii, V. N. 3827  
Zalka, L. 3662  
Zam, S. G. 3500  
Zambotti, V. 2797  
Zaneveld, L. J. D. 756  
Zanlungo, A. M. 589  
Zapisek, W. F. 201, 510  
Zaprometov, A. Yu. 49  
Zardi, L. 2837  
Zarnegar, P. 4623  
Zarske, G. 1754  
Zarubkina, A. K. 3827  
Zatsepin, N. I. 5008  
Zawadzka, H. 2339  
Zbirovský, M. 4341, 4801  
Zebec, M. 4205  
Zech, R. 757  
Zeiger, A. R. 3318  
Zeineh, R. A. 2960, 3394, 4511  
Zeitman, B. B. 5336  
Zelenka, A. 3699  
Zelenski, S. G. 2581  
Zel'venskii, V. Yu. 1121, 1122, 2531  
Zemskova, Z. K. 3060  
Zenk, M. H. 1424  
Zerbe, C. 88  
Zerner, B. 1647, 5451  
Zero, M. 936  
Zeronsa, W. P. 5237  
Zeus, M. 5306  
Žežulka, J. 1910  
Zhigalev, V. I. 1201  
Zhuk, O. I. 584  
Zhukhovitskii, A. A. 30, 90, 1174, 4086, 4107, 5034  
Zhukova, I. G. 2803  
Zhukova, M. P. 4793  
Zhukovskaya, O. S. 3095  
Zhuravleva, I. L. 4611  
Zhurba, A. S. 47  
Ziegler, A. 1977  
Ziegler, M. 1568  
Zieliński, A. Z. 577  
Zieliński, E. 2596  
Zieve, F. J. 771  
Ziller, S. A. 5322  
Zilversmit, D. B. 1590  
Zimmer, T.-L. 4185  
Zimmerer, Jr., R. O. 344  
Zimmerli, B. 5102  
Zimmerman, E. F. 2408  
Zimmerman, J. K. 4695  
Zimmermann, B. K. 687, 989  
Zintel, J. A. 3080  
Ziska, P. 2023  
Zitko, V. 632, 1235  
Živković, N. 2066  
Zlatkis, A. 27, 1173, 1778  
Zlochevskii, V. A. 4514  
Znamenskaya, A. P. 124, 602  
Zolotarev, P. P. 10, 3528, 3529, 4163, 5036  
Zoltai Matolcsy, E. 2355  
Zorin, A. D. 5127  
Zorn, M. 2169  
Zorov, N. B. 3852  
Zowall, H. 2876  
Zschoche, W. C. 4531  
Zubatyi, R. L. 5077  
Zubchenko, A. V. 5246  
Zubkova, L. P. 3367  
Zühlke, H. 1568  
Zürcher, C. 4839  
Zuercher, K. 757, 796  
Zuidweg, M. H. J. 2405  
Zumft, W. G. 1011  
Zumwald, J.-B. 2781  
Zumwalt, R. W. 5165  
Zuspan, F. P. 2284  
Zvyagintsev, D. G. 4549  
Zwar, J. A. 198, 508  
Zweig, G. 808, 5133, 5239  
Zwiers, H. 1304, 1619  
Zyukova, L. A. 2560

## Subject Index

Please note that this index refers to the entry numbers in the Bibliography Section. The entries have been published according to the following schedule:

<i>Entries</i>	<i>Vol./No.</i>	<i>Entries</i>	<i>Vol./No.</i>
1-522	88/1	3005-3521	93/2
523-1071	89/1	3522-4064	95/1
1072-1724	90/1	4065-4551	96/2
1725-2503	92/1	4552-5031	97/1
2504-3004	92/2	5032-5483	97/2

## Gas Chromatography

Accuracy of peak moments, detector response, non-linearity effect 4562

## Adsorption

— activity of separation columns for fatty acid TMS derivatives 1738

—, adsorbate concentration at particle surface *vs.* kinetics 3528

— on binary phases, at finite solute dilutions, study 2507

— in chromatographic column, influence on retention data 1729

—, effects in GC column, isolation by deconvolution 2509

—, — on profile characteristics, kinetic model 4

—, — on reproducibility of specific retention volume 4086

— equilibrium of thermal graphitized carbon black, by GC 4554

— of gases, apparatus for studies, diagram, description 550

— heat, calculation from asymmetric peaks, discussion of equations 560

— — on Carbowax-treated Celites, *vs.* column temperature 5051

— — of gases, low-boiling, by GSC, *vs.* other methods 1828

— — of model compounds *vs.* phase concentration, diagram 3543

— — of organic compounds on different Chromosorbs, table 1740

— — of organic molecules on esterified silica gel by GC 565

— — *vs.* peak asymmetry and temperature 1760

— of insoluble vapours at finite surface coverage, GC study 3559

— isotherm, of binary-mixture components, by GSC 5063

— —, —, gas, by GSC 1132

— —, linear 5051

— —, —, peak broadening at 10

— — in liquid stationary phase-solid system, determination 3558

— — from molecular flow experiments, discussion 4105

— —, non-linearity effect on retention, study 4088

— — of xylene, static method *vs.* GC, graph 3558

— of organic molecules, on esterified silica gel, model 565

— —, on silica gel surface, model 564

— of polar compounds in GLSC system, phase concentration effect 1097

— on sorbents with heterogeneous surface, theory, calculation 5035

— on stationary phase interface, theory, equation 3016

— thermodynamics of polar compounds in GLSC systems 1097

Analysis, GC, of hydrocarbon raw materials, standardization methods 3050

Analyser, CHNO, based on reaction-GC, design, flow diagram 2545



- Anion-exchange-GC, apparatus for, design, description, diagram 1175  
 —, on column, metal halides solution, study by 1175
- Association, molecular, thermodynamics, calculation, two methods, comparison 3525
- Automated preparative GC, with cut and back-flush devices, economy 1119
- Backflushing  
 — coupled to PTGC, effect of experimental parameters 5517  
 — with reversed flow and temperature programming 5517
- Band, chromatographic  
 —, —, expansion and contraction in column, theory 3531  
 —, —, velocity and concentration in column, theory 3531
- Baseline  
 — irregularities origin, optimization of correlation 1091  
 — problems with in GC, book chapter 2505
- Bibliography and biography  
 — of M. S. Tsvet, general article 5484  
 — —, scientific activity and biography, book 4552
- Boiling point of sample, vs. column temperature in preparative GC 1760
- Book 1725, 1726, 2505, 3522, 3523, 4066, 4068, 4552, 4553, 4590, 4606, 5034, 5105, 5106
- Capacity factor  
 —, on columns of various shape, temperature gradient effect 1080  
 — of organic compounds, 21, on chemically modified silica 4576
- Capacity ratio, on cholesteryl carboxylates 1744
- Carrier gas  
 — air, catalytic purifier for, performance, design 4571  
 —, —, compressed, purification, discussion 1133  
 —, alcohol, C<sub>1</sub>, C<sub>2</sub> or C<sub>3</sub>, GSC on activated alumina 5131  
 —, alkanes in, effects on FID response to noble gases 22  
 —, ammonia, C<sub>5</sub>-C<sub>10</sub> hydrocarbons separation, column efficiency 1761  
 —, carbon dioxide, HETP vs. its flow-rate 1761  
 —, carbon tetrachloride 44  
 —, — vapour, ethane and butane diffusion coefficients in 4574  
 —, dichloromethane, ethane, butane diffusion coefficients in 4575  
 —, diffusion coefficients of solutes in, by GC 4575  
 —, dilution effect on FID response to fluoroalkanes 1085  
 —, effect of water content on retention, support aging 4086  
 —, ethanol, vs. nitrogen, retention vs. temperature 5050  
 —, —, GSC on activated alumina, performance 5050  
 —, flow-rate, effect on quantitative GC of fatty acid esters 3076  
 —, —, vs. HETP in preparative GC 1761  
 —, Freon-12, HETP vs. its flow-rate 1761  
 —, helium, saturated with low-boiling solvent vapours 544  
 —, mixture, ethanol, methanol, composition vs. retentions 5131  
 —, —, *n*-hexane, ethanol, composition vs. retention 5050  
 —, SF<sub>6</sub> vs. N<sub>2</sub>, gas density balance detection, comparison 5123  
 —, sulphur dioxide, HETP vs. its flow-rate 1761  
 —, trichloromethane, ethane, butane diffusion coefficients in 4575  
 — water vapour, vs. nitrogen, comparison of retentions 1742  
 —, —, in preparative GC 3042
- Catalysis, and catalysts, study by GC techniques, review, 209 references 1131
- Chromatograms, displacement of two compounds, theory of formation 5038
- Chromatograph  
 —, CHLP-1, preparative and analytical, automatic, laboratory 2523  
 —, gas, automatic, for analysis of sulphur pollutants 1830  
 —, —, continuous, two-stage, for admixtures analysis 3037  
 —, —, and equipment for, list of, review on 1753  
 —, —, PT precolumn, isothermal column, ECD designs 1765  
 —, —, trap for silylation-GC, two-column system 1768  
 —, —, users-manufacturers discussion, paper abstracts 4094  
 —, Model 1490 pollutant analyser, mobile monitoring by 1830  
 —, plasma, as detector in GC, design, construction 1735  
 —, —, —, LC, vs. FID, evaluation 3539  
 —, Prepachrom-2, for temperatures of 200-300°, construction 2529  
 —, total hydrocarbon analyser, flow diagrams, design 1133

- , Tswett-1, for physicochemical measurements, performance 5511
- Chromatography
- , without carrier gas, broadening of fronts, study 5037
- , circulating, continuous, theoretical plate number 34
- , continuous analysis of two-component mixture 4096
- , correlation technique, use of, critical examination 1091
- , displacement, dynamics in the presence of reaction 6
- , economy in instrumentation in industry, general article 3556
- , elution, principles, important parameters 4071
- , GC, LC, TLC, GPC, utilization in macromolecular chemistry 4629
- , LC, vs. CG, of vitamin A, as TMS derivatives 3100
- , plasma, high-speed, GC as sampling system in 1735
- , process, description by transport functions 4073
- , —, molecular diffusion in, models, discussion 4072
- , qualitative, use of empirical rules determining retention 4077
- , quantitative, detection in various techniques, principles 1088
- , reaction displacement, front length and shape 6
- , —, study of process dynamics 6
- , resolution vs. informing power, discussion 5041
- , retention of pure compounds, prediction 4077
- , TLC, of C<sub>17</sub>-oxygenated aliphatic compounds, vs. GC 3083
- , —, of sulphur coal extracts, qualitative GC of fractions 1086
- , —, paper, GC, effectivity of system, theory 5107
- , —, preparative, combined with qualitative and quantitative GC 3081
- , velocity-programmed, mathematical analysis, computer calculation 4098
- Column(s)
- with active support, heavily loaded, characteristics 1093
- , capacity factor, effect of temperature fluctuations, diagram 1080
- , capillary, direct coupling in GC-MS, description, design 3034
- , —, dynamically coated, phase film thickness 3542
- , —, glass, effects of modification on efficiency 5505
- , —, high-precision, preparation, quality control 5525
- , —, high-resolution, factors affecting operation 5500
- , —, —, glass, effluent stream-splitter 4577
- , —, glass, for pesticides, parameters, table 73
- , —, —, phase surface tension effect on its film 1098
- , —, —, preparation and trend of development, review 5503
- , —, —, selective monomolecular layers, wettability 2521
- , —, —, surface evaluation by wettability coefficient 1098
- , —, —, surface modification, better wettability 2521
- , —, —, —, vs. phase film in 1098
- , —, —, honeycomb spool, method for their winding 2532
- , —, injection system for flow control 5513
- , —, nickel, high-resolution, preparation, properties 5496
- , —, packed with Spherosil, preparation, applications 2541
- , —, vs. packed, time of chromatographic analysis, comparison 1095
- , —, soda glass, HCl-etched, polar phase coated 1792
- , —, vs. support-coated capillary, for drugs determination 1819
- , —, system for splitless injection on, design 5513
- , chromatographic process in, plate model, mathematical description 2531
- , clean-up, after GC analysis of pesticide residues 5506
- , composite, EGS and EGS-H<sub>3</sub>PO<sub>4</sub>, on Chromosorb W, preparation 1149
- , —, KOH on quartz powder, OV-1 on Shimalite W 1143
- , critical quality test for PTGC of fatty acid esters on 1738
- , device for subsequent and parallel flushing, design 4090
- diameter, vs. particle size and homogeneity, HETP 1123
- , dual-load, concentration, partition ratios effect on performance 1099
- , —, design, preparation, performance, vs. single-load 1099
- , —, effect of total load and load ratio on performance 1099

- , effect of shape on temperature gradient and GC characteristics 1080
- , effect of time-concentration distribution due to deconvolution 2509
- efficiency, of column with inner tube, study 2534
- —, vs. column length, temperature, carrier gas velocity 5075
- —, effect of support modification by phase coating 2540
- —, effect of treatments of wall capillary 5505
- —, vs. permissible sample size, optimization 1759
- —, in preparative GC, heating rate vs. diameter, equation for 1122
- —, —, rapid method for optimization 1124
- —, separation capacity vs. fraction purity in preparative GC 1111
- —, vs. stationary phase volume on Polysorb-1 3023
- filling, technology, optimal packing preventing adsorption 1830
- , GC and LC, relative efficiencies 1731
- , heavily loaded, speed of mass transfer, calculation 1093
- , high-resolution, discussion of properties 5500
- with inner tube, ratio of diameters vs. HETP, study 2534
- , micropacked, vs. capillary and common columns 3017
- , —, high-efficiency, preparation, separation properties 3017
- , modified, two auxiliary ports to purge sample components 1757
- and oven, review on, discussion 1753
- , oven and temperature controllers, problems, solution, book chapter 2505
- , packed, direct method for hold-up time determination 5494
- , —, filter disk for sealing ends, device for, diagram 5055
- , —, in GC, selection, preparation, evaluation, book on 4068
- , —, minimization of analysis time, discussion 3530
- , —, with open-pore polyurethane, *in situ* preparation, estimation 1106
- , —, vs. SCOT, retention index reproducibility 2589
- performance in preparative GLC, effects of experimental factors 1120
- —, study, methods for improvement 540
- , periodic, for frontal displacement and elution preparative GC 2539
- , PLOT, dual-loaded, performance, efficiency, effect of temperature 5048
- , —, —, vs. single-loaded 5048
- , —, dynamically coated, preparation, characteristics, use 3020
- and pre-column connection, determination of alkanes in diesel fuel 3569
- , preparative, construction, classification, comparison 1762
- , —, —, design, efficiency, vs. other columns 1762
- , —, load characteristics, maximum allowed, estimation 3043
- , —, of pilot plants, test bench for, description 2526
- , —, support coating by frontal method, design 2520
- , pressure drop, effect on mass transfer in, calculation 1075
- , priming with lecithin, sensitivity raise, performance 5493
- , in series, with junction pressure control, circuits 1102
- stripping, and analysis, air N<sub>2</sub>O traces determination, apparatus design 4144
- , support-coated open-tubular vs. packed, retention indices 2589
- , surface inertness, effect on peak shape, study 557
- switching, combined with flow-rate program, in preparative GC 3041
- temperature, vs. b.p. of sample in preparative GC 1760
- —, effect of changes on retention time, calculation 18
- —, reduced, in preparative GC, selection of conditions 1763
- , treatment of surface with organosilicon compounds, review 1727
- , two subsequent, preparative, GC of multi-component mixtures on 1117
- , type and material, effect on retention index precision 1741
- , velocity-programmed, spatial moments of sorbate in, calculation 4098
- Computer
- , algorithm for iterative curve fitting of peaks, scheme 2508
- , calculation of retention indices in multi-component mixtures by 2548
- , calculation of retention temperature in PTGC 2511
- , control of GC-MS apparatus, signal processing 537

- , data acquisition, control, for valve injection profiles 3031
  - , dedicated one-to-one system with GC, operation 2547
  - , display-oriented data system for GC-MS, performance 3557
  - , modelling of peak shape using plate model of column 2531
  - , off-line program for GC of biological fluid extracts 4585
  - , optimization of conditions in continuous-surface GC 5516
  - , phase selection based on relative retentions, method for 5501
  - program, selection of several-component liquid phases 4097
  - , simulation, study of correlation technique in chromatography 1091
  - , simulation of GC data acquisition process, study of errors 14
  - , statistical calculation of retention indices, program for 5489
- Concentration
- , head-space, of volatile organic metabolites from urine 1173
  - of impurity zone in pre-column, calculated vs. experimental 5059
  - of multiple organic solvent samples for GC and TLC 5056
- Condenser, thermo-electrical, for preparative GC, design, performance 2525
- Conference, Makrotest 1973, Pardubice, June 1973 4583, 4596, 4629, 4631, 4632, 4635
- Control
- of chromatographic operations, automatic sequencer for 5060
  - , quality, application of GC in, general article 3554
- Data acquisition
- , choice of parameters for system, error sources 13
  - , computer simulation, errors in moment calculations 14
- Data processing in chromatographic laboratories, recent trends in development 3555
- Dead time, determination at various column temperatures, evaluation of errors 1732
- Deconvolution, isolation of diffusion and adsorption effects 2509
- Desorption
- , dynamic, method for determination of specific surface areas, thesis 562
  - , thermal, combined with GC without carrier gas, design 30
- Detection
- , lower limit of, in various principles 1088
  - in various chromatographic techniques, excluding GC, principles 1089
  - —, principles, theory 1088
- Detector(s)
- , AFID, background current, effect of experimental conditions 21
  - , —, response to boronate derivatives vs. flow-rate 1736
  - , —, response to heteroatoms, effect of molecular composition 21
  - , —, response vs. retention time, sample concentration, scheme 21
  - , argon, electrode position vs. voltage current values 2516
  - , —, micro vs. triode, limits of detection 2516
  - , conductivity, Coulson, operating parameters vs. response 4566
  - , coulometric, micro, simple automatic venting valve for 2515
  - , ECD, capture rate constant vs. response factors, study 4570
  - , —, conditions influencing response, discussion 1083
  - , —, contamination with pesticides, study, prevention 5492
  - , —, in drug analysis, preparation of derivatives, general article 3602
  - , —, pulse period, electron concentration, coulometric response 1083
  - , —, response vs. chemical structure, temperature dependence 4081
  - , —, response factors to highly electrophilic compounds 4570
  - , —, sensitivity raise by column priming with lecithin 5493
  - , —, technology and operation, advances in 1083
  - , electroconductometric, admixtures in gases by, design 3541
  - , electrolytic conductivity, Coulson, automatic venting valve 2515
  - , —, —, sensitivity, selectivity 3012
  - , —, relative response to halogen compounds 3012
  - , element-selective, for organic compounds, quantitative GC, diagram 2517
  - , emission spectrometric, GC of metal chelates with 4133
  - , emissive, microwave-excited, design, performance 2514
  - , —, —, for metal chelates determination 2514
  - , FID, characteristics, principles, carrier gas effect 1084
  - , —, combined with scrubber, analysis of exhaust gases 5067

- , —, effects of noble gas samples on operation 22
- , —, element-specific, modifications, symposium paper abstract 4084
- , —, FPD, design, diagram, calibration, performance 5044
- , —, H concentration in flame, background current vs. responses 1737
- , —, high-frequency, high sensitivity to gases, design 19
- , —, high-pressure, performance, design 2513
- , —, ionic current vs. column temperature for five GLSC systems 1097
- , —, maximal response vs. pressure, diagram 2513
- , —, in quantitative GC of fatty acids, interlaboratory comparison 3079
- , —, sensitivity vs. H flow-rate under various conditions 2513
- , —, sensitivity vs. pressure, diagram 2513
- , —, signal noise vs. H flow-rate at various N rates 2513
- , —, sulphur compounds, use in analysis of, review in table 1799
- , —, TCD, in one unit for analysis of gas mixtures 5519
- , FPD, modified for hetero-organic compounds, design 4565
- , —, response to S-containing compounds, vs. their bond structure 5495
- , —, —, effect of other compounds 539
- , —, —, review in table 1799
- , —, sulphur compounds, use in analysis of 1799
- , gas density balance, response to gases 5123
- for GC, review on, discussion 1753
- , helium ionization, vs. pyroelectric TCD, determination of CO by 1174
- , ionization chamber, for radio-GC, design, description 1734
- , MS, specific 8-channel multiple, peak integrators, diagrams 4080
- , photoionization, comparison of parameters, table 3015
- , —, description, performance, block diagram 4568
- , —, design parameters of photon source for 3015
- , piezo-electric crystal, coated, design, performance 5045
- , plasma chromatograph, evaluation, low limit of detection 3539
- , —, vs. FID, sensitivity 1735
- , —, plasma, microwave, function, use in GC, performance 3538
- in quantitative GC, LC, response linearity, sensitivity 1088
- , radioisotope vs. FID, reproducibility, performance 1734
- , response non-linearity vs. peak moment accuracy 4562
- , selective, in GC, general article 4085
- , TCD, effect of cell volume and design on peak shape 4569
- , —, FID, in one GC unit for analysis of gas mixtures 5519
- , —, —, ECD, maintenance, problems, book chapter 2505
- , —, mathematical model, for estimation of peak distortion 4083
- , —, micro-, analysis of gas mixtures with, design 4587
- , —, reduced volume, application in capillary GC 4569
- , —, response factors, prediction, methods, discussion 1090
- , —, response linearity vs. carrier gas, cell temperature 1090
- , —, response prediction from kinetic theory, calculation 4567
- , —, in quantitative GC, of fatty acids, interlaboratory comparison 3078
- , —, —, sensitivity calculation, construction 1090
- , —, RMR, measured on equal-volume basis, rapid method 3562
- , —, sulphur compounds, use in analysis of, review in table 1799
- , —, thermal conductivity of gases in, effect on peak area 4567
- , —, volume, geometry, temperature control, electronics 1087
- , TID, four types, construction, design 1082
- , —, nitrogen-selective, detection limits 3013
- , —, with RbCl tip, N-selective, study of stability 3013
- , —, response to hetero-organic compounds, discussion 1082
- , UV fluorescence, block diagram 3540
- , —, for polynuclear aromatics, sensitivity 3540
- , UV, after small condenser, design 5050
- Diffusion
- coefficient, axial, in chromatography, equation for derivation 4555
- —, partial, vs. binary coefficients and concentration gradients 5

- — of solutes in carrier gases, by GC 4575
- effects in GC column, isolation by deconvolution 2509
- , molecular, role in chromatographic processes, models, discussion 4072
- , multi-component, derivation of differential equations 5
- in multi-component gaseous mixtures, mathematical solution 40
- Distribution
  - coefficient, in gas-solid-liquid systems, by GLC 531
  - —, identification of equilibrium mixture 4557
  - —, vs. solute concentration 5051
  - , concentration, in column, computer modelling 2531
  - , time-concentration, due to column effects, deconvolution 2509
- Economy of industrial preparative GC vs. rectification 2536
- Efficiency
  - of micropacked capillary columns, study, evaluation 5497
  - , relative, of gas and liquid chromatographic columns 1731
- Effluent, simple device for collection, recovery efficiency, table 5507
- Electronics, integral GC, book chapter 2505
- Elemental analysis
  - , analyser based on reaction-GC for, diagram 2545
  - of C, H and N by GC, accuracy and precision 1769
  - by GC, review with 175 references 1127
- Elution curves, in and out of column, total distribution, diagram 2509
- Energy
  - , electrostatic, of halogen compounds, interactions with phases 15
  - , free, of adsorption, for model mixture on four sorbents, by GSC 1722
  - , —, Gibbs', partial molecular excess, vs. phase polarity 7
  - , —, molecular excess vs. phase polarity, effect on retention 7
- Enrichment of ultratracés of pollutants for GC trace analysis 5033
- Enthalpy
  - , changes, for model mixture on four sorbents, by GSC 1772
  - , free, of separation of enantiomers on optically active phases 5046
- Entropy, changes, for model mixture on four sorbents, by GSC 1772
- Equation, Taft-like, based on retention data, discussion 5488
- Equilibrium, gas-liquid, at high pressures and temperatures, by GLC, apparatus 38
- Error(s)
  - in data acquisition systems, calculation of contributions 13
  - in data processing system, GC, operation due to temperature changes 18
  - in determination of dead time, evaluation 1732
  - in determination of hydrocarbon retention index using various standards 3009
  - , effect on retention times, computer simulation vs. experiment 12
  - , instrumental, effect on retention time, study, determination 1081
  - in laser-induced pyrolysis-GC, effects on reproducibility 4102
  - of peak area determination, as detector response function 4562
  - of peak first moment, use instead of peak maximum 4562
  - in plate number, due to relation between separation factors 3533
  - in quantitative GSC of polyols using internal standard method 2560
  - in retention data, static and dynamic effects on, study 531
  - , systematic and statistical, estimation 531
  - in retention determination, relative retention vs. retention indices 2552
  - , —, relative, theory, calculation, correlation 5040
  - in retention indices, calculated by different methods, table 3010
  - in time measurement, effect on retention time, determination, table 1081
- Film thickness
  - , direct experimental determination from GC data 1743
  - , effect on retention index precision, discussion 1741
- Flow
  - control, using splitless injection on capillary columns 5513
  - meter, capillary, with exchangeable capillaries, design 1132
  - process in columns, role in GC, discussion 4087
  - rate, program, combined with column switching, GC 3041
- Fraction, trapping from GC effluents, radio-GC vs. other methods 1831

- Front broadening, in chromatography without carrier gas, study 5037
- Gas chromatograph(s)
- , adapted for micro amounts, collection and transfer 5510
  - , CHL-4, adapted for physicochemical measurements 1746
  - combined to autoclave, for phase equilibrium determination 38
  - combined with MS, description, design 3536
  - , continuous-surface, 12-disc channel, design 5516
  - , cryogenic, design, construction 5054
  - with flow control using pneumatic switching 3551
  - for gaseous fuels, in annual review 4590
  - , modified for adsorption isotherm measurements 1132
  - in petroleum processing, annual review 4591
  - , preparative, flow-rate programming, column switching 3041
  - , —, modified for high-boiling compounds 1758
  - , system for isolating and determining petrol aromatics 3570
  - with three columns, FID and TCD, for gas mixtures, design 5519
- Gas chromatography
- , anion-exchange, study of elution properties of metal halides 1175
  - , capillary, application of reduced-volume TCD in 4569
  - , —, column coating with Dexsil 300 GC, apparatus for, design 5563
  - , —, vs. GC on packed column in circulating system 1095
  - , —, glass columns, monomolecular layers for, wettability 2521
  - , —, high-precision, of hydrocarbons, home-made system 5525
  - , —, high-resolution, factors affecting column operation 5500
  - , —, —, GC-MS, in pyrolysis naphtha analysis 4589
  - , —, —, nickel open-tubular columns for 5496
  - , —, history, development, efficiency, editorial 5485
  - , —, home-made system, design, experimental conditions 5525
  - , —, Honeycomb spool, method for winding column 2532
  - , —, modification of surfaces of glass columns, discussion 2521
  - , —, phase film thickness in dynamically coated columns 3542
  - , —, phase surface tension effect on film homogeneity 1098
  - , —, of pollutants, environmental, trace analysis, enrichment 5033
  - , —, of reaction products in large dilutions, precision 3547
  - , —, simple effluent stream-splitting device for, design 4577
  - , —, surface chemistry of glass open tubular columns for 5503
  - , —, of steroids, GC-MS, mass fragmentography, evaluation 4123
  - , circulating, on packed column, vs. capillary GC 1095
  - , —, review with 64 references 4065
  - , combined with computer, dedicated, one-to-one, operation, description 2547
  - , combined with infrared spectroscopy, liquid and vapour-phase spectra of model compounds, comparison 4093
  - , —, on-line, using grating RS-1 GC identifier, diagram, use 20
  - , —, sample cell of identifier, design, sensitivity, efficiency 4093
  - , —, simple direct combination, performance, design, diagram 3547
  - , elution, interrupted, one- and two-column systems, diagrams 3028
  - fractions, characterization by elemental analysis 1769
  - , head space, detection of functional groups of organic volatiles by 31
  - , —, gas-liquid partition coefficients of organic solutes by 1130
  - , —, solubilities of sparingly soluble organic compounds 3560
  - , isothermal, injection of large samples, vs. retention volumes 541
  - , mass chromatography, errors, precision, accuracy, study 4082
  - on mobile liquid phase, description of technique 544
  - , using permeation and exponential dilution, device, diagram 3032
  - , preparative, *see* Preparative gas chromatography
  - , process, on Spherosil, use in industrial routine control operations 2541
  - , production, large-scale, design requirements analysis 4095
  - , programmed flow and temperature, compressibility factor application 558
  - , programmed temperature, *see* Programmed temperature gas chromatography



- , qualitative, *see* Qualitative gas chromatography
- , quantitative, *see* Quantitative gas chromatography
- , radio, four-column, recycle arrangement, flow stream diagram 3619
- , —, ionization chamber for, construction, design 1734
- , —, using stepwise pressure and temperature programming 3619
- , reversed-phase, copolymers surface structure study by 4631
- , vacancy, of noble gases, FID response to, effects on 22
- Gas chromatography-computer system, dedicated, one-to-one, operation, description 2547
- Gas chromatography-mass spectroscopy
  - , 8-channel multiple detection, peak integration, diagrams 4080
  - , computer display-oriented data system for, circuit diagram 3557
  - , direct coupling of capillary columns in, description 3034
  - , interface, PT capillaries, evaluation, *vs.* other interfaces 1754
  - , molecular separator for, design, block diagram 538
  - , pressure programmed with peak cutting, block diagram 1148
  - as specific identification method of high sensitivity, discussion 5101
  - , techniques, application in organic analysis, book on 3522
  - , twin ion technique for detection of metabolites 594
  - , various connections of GC with MS, description, design 3536
- Gas chromatography-mass spectroscopy-computer, description of software and hardware 537
- Gas chromatography-plasma chromatography
  - , coupled detector system, block diagram 1735
  - of Freons, use as calibration standard 1735
  - , high-speed, *vs.* GC-MS, discussion 1735
- Gas chromatography-TGA, for study of C(s) + SO<sub>2</sub>(g) reaction system, apparatus, design 1128
- Gas chromatography-thin-layer chromatography, prospects for qualitative and quantitative analyses, book chapter 1
- Gas-liquid chromatography
  - , or GSC, system evaluation, Van Deemter plots 1822
  - , partition, adsorption isotherms, methods for calculation 3558
  - , review of history, with 26 references 1072
- Gas-liquid-solid chromatography
  - , effect of phase concentration on column performance 3543
  - , study of efficiency, selectivity, thermal stability 1097
- Gas-solid chromatography
  - on alkali-earth metal cations containing X-type zeolites 3022
  - , or GLC, system evaluation, Van Deemter plots 1822
  - , ion-exchange, on cationites, column efficiency and stability 3546
  - , —, evaluation of thermodynamic functions 3046
  - , pulsed, for adsorption isotherms, method for 566
  - , quantitative, frontal analysis adsorption-desorption study by 4143
  - with salt-modified adsorbents, principles and practice 524
  - , using ethanol as carrier gas, flow diagram 5050
- Gas-solid-liquid chromatography, capillary, micropacked columns, evaluation, applications 5497
- Hold-up time
  - , direct determination with FID, TID, *vs.* other methods, discussion 5494
  - of packed columns, direct automated method for determination 5494
- Identifier, RS-1, for on-line GC-IR, design, performance 4093
- Injection
  - , automatic, sequencer for, description, design 5060
  - , —, venting valve for electrolytical conductivity detector 2515
  - , direct, of derivatives of barbituric acids prepared for GC 1166
  - of large samples, effect on retention volumes, discussion 541
  - port, adsorbent, trap for concentration as insert to 1173
  - — for GC analysis of trimethylgallium, design 3591
  - — for glass capillary columns, description, diagram 73
  - —, modified, septum bleed reduction by, design 5514
  - —, Teflon, for corrosive liquids and gases, diagram 3033
  - of pressurized liquid samples, temperature-controlled sampler 5508



- profiles, valve, computer data acquisition and control 3031
- , solid, in capillary GC-MS, mass fragmentation system 4123
- , splitless, on capillary columns, system for, design 5513
- system, for GC of volatiles in excess of non-volatiles 3030
- —, manual capsule for liquid samples, reproducibility 1748
- —, solid, for GC, design, application, diagram 2528
- , submicro amounts, trapping and re-injection, design 5510
- , syringeless, using capsule, performance, use 4091
- Injector**
  - , automatic, solid, of capsules containing hormone Si derivatives 5545
  - , —, synchronized with temperature program, circuit for 5058
  - for reactive solid halides, description, diagram 5587
- Inlet system**
  - , modified, of Perkin-Elmer Model 900, design, diagram 3611
  - , precolumn, for GC of aliphatic amines, diagram 3588
- Integrator, digital, noise elimination, in GC, LC, method 5061**
- Interactions, phase-solutes, vs. retention data 5504**
- Intermolecular forces, relation to GC data, study 4076**
- Isotherm, partition, vs. adsorbate concentration, zone passage velocity 1116**
- Mass transfer**
  - coefficients, for micropacked and common columns 3017
  - in columns containing spherical sorbent, theory 1075
  - and distribution, in chromatographic processes, model 4073
  - , non-equilibrium effect, study by means of time constants 4556
- Meetings 3583, 3584, 3590, 3606, 3610, 3618, 4132**
- Moments, spatial, of sorbate in velocity-programmed chromatography 4098**
- Noise**
  - , elimination in digital integrator in GC, LC, method 5061
  - , random numbers and baseline records, statistical analysis 12
- Nomenclature of fatty acids and their esters, guide 4606**
- Optimization**
  - in continuous-surface GC, computer programme for 5516
  - in preparative GC, repetitive injection, cycle time 4095
- Packing, specific surface area vs. stationary phase volume 4561**
- Peak(s)**
  - area, effect of thermal conductivity and gas concentration in TCD on 4567
  - —, random noise effect on measurement precision, accuracy 1079
  - , asymmetric, approximate logarithmic normal distribution function 4078
  - , —, broadening, average time of appearance, calculation 9
  - , —, calculation of heat adsorption from 560
  - , —, empiric tailing factors, quantitative evaluation 530
  - , —, mathematical description vs. experiment 1113
  - , — and multiple, simple manual integration, method 4104
  - , —, in preparative GC, estimation of fraction purity 1113
  - , —, shape study at a linear isotherm 1114
  - , average time of appearance, broadening, asymmetry, calculation 9
  - broadening, at chromatography of multi-component gaseous mixtures 5
  - —, dynamics, study of, disregarding velocity profile 8
  - —, —, —, regarding velocity profile 9
  - — in heavily loaded column 1093
  - — at linear adsorption isotherms 10
  - , characterization by first three statistical moments 8
  - concentration profile calculation, in continuous circulating chromatography 34
  - cutting, connection of columns in GC apparatus, design 4621
  - —, for GC-MS, block diagram, description of function 1148
  - formation, in linear chromatographic system, mathematical expression 5039
  - , ghost, in temperature-programmed GC, origin and elimination 3552
  - , iterative curve fitting, new function, theory, calculation 2508
  - , mathematical description of katharometer for distortion estimation 4083
  - moments, detector response non-linearity effect on accuracy 4562
  - at non-linear isotherms, calculation, general aspects 525

- —, factors disturbing laminar stream 3
- —, formation and movement 2
- profiles, input, valve generated, statistical moments 3031
- in reaction displacement chromatography, length and shape calculation 6
- shape, vs. column temperature in preparative GC 1760
- , computer modelling using plate model of column 2531
- —, dependence on inertness of column surface, study 557
- —, distortion, ghost peaks, book chapter 2505
- —, effect of sample size due to adsorption, diagram 4
- —, effect of sorption isotherm and plate number on 2531
- —, experimental vs. computer model, diagram 2531
- —, vs. rate of mass transport between phases 5487
- —, vs. sorption rate constant, calculation, diagrams 5487
- —, vs. velocity and diffusion constants along column 5487
- , tailing and shift, study of finite rate of mass transport 4556
- , throughput, vs. column length, feed band width, volatility 4095
- , —, vs. fraction impurity, recovery ratio 4095
- , velocity profile calculation, discussion of dispersion term 9
- , visual fitting of tracings, least squares analysis for 529
- width, at base-line, theory of calculation 11
- —, evaluation by Fortran computer program, graph 4097
- , —, vs. gas inlet velocity, vs. Van Deemter equation 5487
- — of impurity zone in precolumn, calculated vs. experimental 5059
- —, vs. sample size, experimental and calculated profile, diagram 4
- Pharmacokinetic study by head-space GC 5110
- Phase(s)
  - , aminoalkyl polysiloxanes, viscosity, McReynolds' constants 1092
  - , aminoalkyl siloxanes, on column reaction with carbonyls 1092
  - , —, reaction with halogen compounds 1092
  - , —, reaction with oxygen compounds 1092
- — for analysis of fatty acids and esters, guide 4606
- — of sulphur compounds, 25, review in table 1799
- , Apiezon L, characteristics 543
- , —, M and N, thermal stability 3549
- , —, thin non-extractable layer on support 4578
- , aromatic hydrocarbons, temperature stability, separation properties 3024
- , asphaltenes, for reversed-phase GC, interaction coefficients 3063
- , azoxyphenetole, factors affecting selectivity 3018
- , Bentone 34, on glass beads, separation properties, evaluation 1739
- , Bentone gel, on glass beads, efficiency study 540
- , Bentone, on glass beads, efficiency study 540
- , bis-2,6-dinaphthyl-*p*-anisate liquid crystals 4588
- , bis-2,6-dinaphthyl-*p*-N-heptyloxybenzoate liquid crystals 4588
- , bis-2,6-dinaphthyl-*p*-N-pentyloxybenzoate liquid crystals 4588
- , bis-2,6-dinaphthyl-*p*-N-nonyloxybenzoate liquid crystals 4588
- , bis-2,6-dinaphthyl-*p*-toluate liquid crystals 4588
- , carbonyl-bis-(*D*-leucine isopropyl ester) 5046
- , carbonyl-bis-(*L*-valine ethylester) 5046
- , carbonyl-bis-(*L*-valine isopropyl ester) 5046
- , carbonyl-bis-(*L*-valine methyl ester) 5046
- , carbonyl-bis-(*L*-valine *tert.*-butyl ester) 5046
- , Carbowaxes, effect of molecular weight, properties, evaluation 5498
- , Carbowax 20M, heat-treated, modified, characteristics 5051
- , —, thin non-extractable layer on support 4578
- , characterization by retention index system 4558, 4559
- , —, summary of attitudes 552
- , chlorophenyl silicones, discussion of their chemistry 549
- , classification of 226 phases by principal-components analysis 536
- , coated volume, effect on specific surface area of column packing 4561
- , coating on support, effect on column efficiency, HETP 2540

- , —, in vapour phase, apparatus for, design 5049
- , —, computer method for selection, based on relative retention 5501
- , —, criteria for selection for preparative GLC 1120
- , —, cyanoalkylsilicones, discussion of their chemistry 549
- , —, 2-cyanoethyl(methyl)polysiloxane, non-extractable layer 4578
- , —, DEGS, thin non-extractable layer on support 4578
- , —, dependence of specific surface area on phase amount in support 4574
- , —, Dexsil 300, characteristics 543
- , —, diethylene glycol succinate, characteristics 543
- , —, dinonyl phthalate, characteristics 543
- , —, distribution on supports, effect of moisture on 4986
- , —, effect on molecular weight on chromatographic behaviour of paraffins 1103
- , —, —, on thermodynamics of solutes 1103
- , —, *p*-(*p*-ethoxyphenylazo)phenyl heptanoate liquid crystal 4595
- , —, *p*-(*p*-ethoxyphenylazo)phenyl undecylate liquid crystal 4595
- , —, ethylene glycol adipate, characteristics 543
- , —, film thickness, dependence of retention volume on 1743
- , —, in dynamically coated capillary columns 3542
- , —, effect on retention volumes, equation for 526
- , —, fluoroalkyl silicones, discussion of their chemistry 549
- , —, gas, compressibility effect on retention times in GC 1728
- , —, gas chromatography, correlation by nearest neighbour technique, set of 12 532
- , —, —, selection, classification, preparation of packing, book 4068
- , —, —, set of 12 preferred, correlation in tabulated data 532
- , —, geometric similarity with geometry of solute, vs. retention 4564
- , —, heat-treated, non-extractable layers on supports, preparation 4578
- , —, heptylphosphinic acid, high-boiling, characteristics, use 28
- , —, inorganic halides, preparation for anion-exchange-GC, evaluation 1175
- , —, linear alkanes, oxygen-substituted, preparation for GLC, properties 3563
- , —, liquid, coating on support in vapour phase, method for 549
- , —, —, gas chromatography, comparison, selection of preferred ones 543
- , —, —, standardization, discussion, letter to editor 542
- , —, liquid crystals, azoxyethers, structural selectivity 3018
- , —, —, carboxylic acid esters of cholesterol 1744
- , —, —, methoxyethoxyazoxybenzene, properties 3025
- , —, —, separation of isomeric phenols as ether derivatives 4595
- , —, —, of substituted benzoic acid dinaphthyl esters 4588
- , —, loading, specific, preparative vs. analytical, GC of high-boiling compounds 1763
- , —, —, McReynolds' constants for, tables 4068
- , —, manganese oxide, supported on Celite, for oxygen removal 5057
- , —, mesomorphic chiral carbonyl-bis-(amino acid esters) 5046
- , —, —, methoxyethoxyazoxybenzene, factors affecting selectivity 3018
- , —, —, liquid crystals, properties 3025
- , —, —, *p*-[(*p*-methoxybenzylidene)amino]-phenyl acetate, liquid crystal 4595
- , —, —, *p*-[(*p*-methoxybenzylidene)amino]-phenyl benzoate, liquid crystal 4595
- , —, —, methylphenylsilicone polymer, characteristics 543
- , —, —, methylsilicones, for GLC, their chemistry and use 555
- , —, —, polymers, characteristics 543
- , —, —, mixed, AgBr, KBr, for anion-exchange-GC 1175
- , —, —, AgCl, KCl, for anion-exchange-GC 1175
- , —, —, Bentone 34, OV-17, separation properties, evaluation 1739
- , —, —, polyphenyl ether, separation properties 1739
- , —, —, thermally treated, squalane 5499
- , —, —, calculation of optimum composition, methods for 24
- , —, —, composition selection with Fortran computer program 4097
- , —, —, DNP, trinitrobenzene, hydrocarbons complexing equilibrium on 36
- , —, —, Eu(FOD)<sub>3</sub>, squalane, interactions with nucleophiles 1094
- , —, —, graphic method for optimal selectivity 4089
- , —, —, calculation 5047

- , —, KALI4, preparation for anion-exchange-GC 1175
- , —, KI, AgI, for anion-exchange-GC 1175
- , —, N-methylacetamide, AgNO<sub>3</sub>, interactions with hexenes 3047
- , —, —, PdCl<sub>2</sub>, interactions with hexenes 3047
- , —, retention mechanism at finite solute dilutions 2507
- , —, ter- and tetra-component, optimum selectivity selection 5047
- , —, mobile, liquid, for GC, preparation by saturation with solvent vapours 544
- , —, non-equilibrium effect on retention times in GC 1728
- , MPCEP, evaluation of GC separation properties 1751
- , non-extractable coating on support, evaluation 4578
- , non-polar and polar, suitable pair for analysis of mixtures 1781
- , *n*-octadecane and derivatives, interactions with solutes 5504
- , optically active, direct separation of enantiomers on, performance 4573
- , —, mesophases, structure *vs.* selectivity 5046
- , organopolysiloxane, separation properties 1727
- , organosilicon compounds, treatment of supports with 1727
- , organosilicon liquids, chromatographic properties, physical constant 2538
- , —, for preparative GC, possible bleeding 2538
- , OV-17, on glass beads, efficiency study 540
- , PAA, in capillary GC, effect of temperature on HETP, retention 3545
- , —, —, efficiency, mass transfer, study 3545
- , paraffin, molecular weight, effect on retention data, study 1108
- , —, —, *vs.* temperature, diagram 1108
- , PEG, specific interaction with aromatic hydrocarbons during GC 1096
- , PEG 1500, effect of concentration on adsorption in GLSC systems 1097
- , PEGA, in CHCl<sub>3</sub>, support coating on pilot plant scale 2520
- , —, effect of oxygen in carrier gas on thermal stability 3021
- , phenylsilicones, discussion of their chemistry 549
- , —, phenylsilyl bonded on silica, properties 4576
- , —, polar, and non-polar, suitable pair for analysis of mixtures 1781
- , —, retention, additivity for ethylenic functions 3008
- , —, soda glass capillary columns coated with, preparation 1792
- , —, polarity, classification by Rohrschneider's terms, study 2518
- , —, determination from thermodynamics of solutes, theory 2506
- , —, *vs.* molecular excess free energy, effect on retention 7
- , poly(amine acetals) of formylstearic acid, chemically bonded 3550
- , poly-( $\alpha$ -benzyl), new, non-polar, evaluation 3024
- , poly(ester acetals) of formylstearic acid, chemically bound 3550
- , polyester liquids, for GC, description and properties 547
- , polyethylene, thin non-extractable layer on support 4578
- , polyethylene glycols, used in GC, discussion of their chemistry 553
- , polyethylene glycol 20M, characteristics 543
- , polyethylene glycol succinate, thermal stability increase 3021
- , polymetaphenoxylene, on carbon black, micropacked columns 5497
- , polyorganosiloxanes, linear, discussion of their chemistry 549
- , polyphenyl ethers, characteristics 543
- , polysiloxane, temperature effect on polarity, and retention on 2518
- , SE-30, thermostabilized by Silanox 101, for capillary GC 1139
- , —, thin non-extractable layer on support 4578
- , selectivity to saturated aliphatic ethers, evaluation 5488
- , selectivity for separation of sugars 5079
- , silanes, chemically bonded on porous spherical siliceous beads 3035
- , silica gel, esterified, preparation, physical constants, properties 565
- , silicone rubber, separation properties 1727
- , specific surface area *vs.* its amount in support, calculation *vs.* experiment 4574
- , squalane, characteristics 543
- , stationary, applications in GLC, proceeding containing six papers 4069

- , —, mixed, to control GC selectivity, review 545
- , standards, recommendations concerning use of their limited number 552
- , surface tension, effect on phase film homogeneity in capillary 1098
- , temperature dependence of branched paraffin retention indexes on 1077
- , thermal stability, method for increase 3021
- , —, thermogravimetric analysis, study by 3549
- , thin-film, specific properties expressed as disjoining pressure 526
- , tricresyl phosphate, characteristics 543
- , trifluoropropyl silicone polymer, characteristics 543
- , trimethylsilyl bonded on silica, properties 4576
- , triphenylmethylsilyl bonded on silica, properties 4576
- , triphenylsilyl bonded on silica, properties 4576
- , urea inclusion compounds with paraffins, interaction 3548
- , volume vs. pore diameters, for six packings, graphs 4561
- , —, reciprocal, vs. retention volume, indexes, graph 1729
- , —, vs. relative retention of model mixture 3023
- Physicochemical measurements**
- , CHL-4 gas chromatograph, adaptation 1746
- , chromatograph Tswett-I for, design 5511
- , by GC 15, 35-44, 52, 531, 548, 556, 561, 563, 565, 567, 568, 580, 599, 612, 1076, 1093, 1094, 1097, 1129-1131, 1138, 1175, 1180, 1740, 1741, 1743, 1771, 1774-1776, 1802, 1807, 2507, 2555, 3016, 3023, 3044, 3047-3049, 3109, 3525, 3543, 3558-3560, 4070, 4076, 4082, 4088, 4105-4107, 4110, 4555, 4574, 4575, 4586, 4631, 5064, 5070, 5490, 5504, 5552, 5578, 5579
- , —, microreactor, design, diagram 1747
- , by GSC 26, 550, 562, 579, 612, 1132, 1772, 1828, 3046, 4554, 5063, 5586
- Physicochemical properties of compounds, by chromatography, review 4106**
- Plate**
- , height calculation by modified random walk method 527
- , HETP, for aromatic hydrocarbon phases, temperature dependence 3024
- , —, vs. carrier gas flow-rate, GLC or GSC 1822
- , —, in preparative GC 1761
- , —, vs. column diameter and carrier gas flow-rate, preparative GC 1112
- , —, of column with inner tube, compared to single column 2534
- , —, of dual-load plot columns, tables 5048
- , —, effect of carrier gas flow-rate on, in preparative GC 1123
- , —, effect of gaseous diffusion coefficient on, discussion 4575
- , —, experimental estimation by Van Deemter's equation 1112
- , —, vs. linear gas velocities, for micropacked columns 5497
- , —, of micropacked columns vs. carrier gas velocity 3017
- , —, in preparative GC with phase concentration gradient on support 5486
- , —, —, with programmed temperature 1122
- , —, vs. sample loop pressure, study 5515
- , —, vs. specific load, in preparative GC, semiempirical equation for 3043
- , —, —, and temperature in preparative GC 1760
- , —, Van Deemter equation, experimental determination of coefficients 1123
- model, of chromatographic column, mathematical description 2531
- number, errors due to relation between separation number factors 3533
- , theoretical, number of, use in concentration profile calculation 34
- , —, vs. stop time, in interrupted elution GC 3028
- Polarity of phases, determination from thermodynamic solute behaviour 2506**
- Polarizability of molecules, electron, vs. retention volume, graph 37**
- Porous polymers, branched-chain peak broadening, discussion 2510**
- , Chromosorb 101, 102, 104, properties comparison 1740
- , use in GC and LC, preparation, properties, list 1750
- , preparation, GSC study of chromatographic properties 1107
- , properties by differential scanning calorimetry 1772
- Precision of qualitative and quantitative analyses, vs. experimental facilities 13**

## Precolumn

- , concentration of heavy impurities, eluent-heat displacement 5059
- , PT, pressure-controlled isothermal column for ECGC 1765

## Preparative gas chromatography

- , inlet gas pressure *vs.* separation efficiency 5486
- on industrial scale, *vs.* rectification, economy 2536
- and large-scale GC, design requirements analysis 4095
- , application of easily condensable gases in 1761
- , applications to oil products, survey 3005
- , asymmetric peaks, mathematical description 1113
- , —, —, equation 1114
- , automated, using cut and back-flush devices, design 1119
- , chromatograph for, description, applicability 2523
- , circulating, pulse-hot-wire zone reduction, design 1764
- , column classification, construction, peculiarity 1762
- , — efficiency increase by temperature programming 1122
- , — load characteristics, equation, evaluation 3043
- , — —, specific, maximum allowed, equation for 3043
- , — switching, block diagram 3041
- , — with inner tube, study of column efficiency 2534
- , concentration of trace impurities by trapping 1770
- , concepts, classification, problem, general article 1118
- , distribution of admixtures concentrations, for purity determination 1110
- , effluents collection, simple device for, design 5507
- , engineering-economic evaluation of columns 2526
- , equation for admissible sample size calculation 1759
- , followed by quantitative and qualitative GC on pair of phases 1781
- , formula for fraction purity calculation, applicability 1111
- , gas-liquid, stationary phase selection, criteria for 1120
- , HETP, *vs.* column diameter, carrier gas flow-rate 1112

- with linear phase concentration gradient on support 5486
- , optimization by coating support with phase 2540
- , optimization of column efficiency and capacity 1124
- , optimum temperature difference at column centre and wall 1122
- , organosilicon phases, physical, chromatographic properties 2438
- , particle diameter and homogeneity *vs.* column diameter 1123
- , performance improvement, by column switching 3041
- , —, by flow-rate programming 3041
- , periodic, for large-scale separations, apparatus design 2539
- , —, frontal, displacement, elution variants 2539
- , phase concentration gradient on support *vs.* efficiency 5486
- , potential uses of heavily loaded columns in 1093
- , Prepachrom-2, for high-boiling compounds 2529
- in pure chemical reagents production, evaluation 2537
- rectification, of multi-component mixtures, apparatus 4592
- , repetitive injection, throughput and band overlapping 4095
- , sample injector for large-diameter columns 2527
- , selection of optimum column temperature for 1760
- , separation of coking by-products, basic parameters, table 2535
- , sorbate concentration effect on zone parameters 1116
- , thermo-electrical condensers for, design 2525
- , velocity profile in columns with large diameter 1121
- with water vapour as carrier gas 3042
- , zone dispersion *vs.* carrier gas flow-rate 1115
- , zone parameters *vs.* partition isotherm 1116

## Pressure

- , disjoining, direct experimental determination from GC data 1743
- drop in column, effect on mass transfer, calculation 1075
- programming, in GC-MS, block diagram, description 1148

## Proceedings

- application of stationary phases in GLC, six papers 4069
- of seminar on GC theory and practice 2504
- of symposium on preparative GC, Khar'kov, October 1971 1074
- Process control, optimized correlation chromatography for, discussion 1091
- Program, flow-rate, combined with column switching, in preparative GC 3041
- Programmed temperature gas chromatography
  - with backflushing and temperature programming, evaluation 5517
  - , calculation of retention temperature, equation for 2511
  - , circuit for temperature program and injector synchronization 5058
  - , coupled to backflushing, as two-stage operation 5517
  - , cryogenic gas chromatograph for, temperature range 100–300° 5054
  - with ECD, PT precolumn and isothermal column, connection 1765
  - , effect of programming on reduced volume TCD stability 4569
  - , ghost peaks in, discussion of origin and elimination 3552
  - , influence on ECD response 1083
  - , injection of large samples, effect on retention volumes 541
  - and isothermal, septum bleed studies 5514
  - , prediction and optimization of separation, mathematical model 1125
  - , preparative, heating rate, for optimum column efficiency 1122
  - , program selection with Fortran computer program 4097
  - and programmed-flow, compressibility factor application 558
  - , retention data, vs. isothermal retention data, study 5043
- Purifier, catalytic, for purification of air, design, operation 4571
- Pyrolysis, vacuum ampoule method, for pyrolysis-GC-TLC 1164
- Pyrolysis-gas chromatography
  - , Curie point, with ferromagnetic tube sample support 4580
  - , —, for precise control of experimental parameter 4633
  - , degree of cross-linking of ion exchangers, determination of 2583
  - , equipment for pyrolysis time regulation, design 4092
  - , inlets, trouble-shooting, book chapter 2505
  - , interlaboratory comparison of results, experimental conditions 1817
  - , laser, effects of power density, sample thickness 4102
  - , —, pulsed, performance, device, applications 4103
  - , as method for investigation of polymers, discussion 551
  - , of polymers, reproducibility, third correlation trial 4630
  - , —, specification of experimental conditions 4630
- Pyrolyser
  - , ferromagnetic tubes, for Curie point pyrolysis, design 4580
  - , with controllable conditions, experimental parameters study 3040
- Qualitative gas chromatography
  - , additive group retention indices, prediction 533
  - , column temperature changes, effect on identification 18
  - , isothermal, retention as alternative to temperature scale 1730
  - by means of Kovats' retention index system 4074
  - after preparative GC, suitable pair of phases for 1781
  - , relative retentions, use in precision of identification 5040
  - , retention data, vs. PTGC retention data, study 5043
  - , retention index system, use of 4558
  - , standard mixtures preparation, use of chemical methods, review 5520
- Quantitative gas chromatography
  - , back-flushing method, design 576
  - , efficient trapping of effluents, design 3036
  - , effluents collection, simple device for, design 5507
  - , integration system, programmed calculation 3555
  - , liquid samples, capsule injection system for 1748
  - , peak area vs. sample loop pressure, study 5515
  - , peak integration, simple manual method 4104
  - , peak width evaluation by computer program 4097
  - after preparative GC, suitable pair of phases for 1781
  - on Spherosil columns, evaluation of accuracy 2541



## Reaction-gas chromatography

- , CHNO analyzer based on, design, flow diagram 2545
- , dynamic sampling system for subambient pressure, apparatus 5515
- , efficiency vs. column reactive length 1149
- , fluoride preparation of S, Se, Te, with XeF<sub>2</sub>, method 4655
- , hydrogenation, preparation of standard mixtures for qualitative GC by 5520
- , on-column, anion exchange 1175
- , —, derivatization 1176
- , pyrolysis, laser-induced, reproducibility, evaluation 4102
- , radio, of fruit aroma volatiles, study of biogenesis 79

## Reactor

- , micro, for physicochemical measurements by GC, design 1747
- , packing evaluation for pyrolysis at various temperatures 4099
- , pyrolysis block, for pyrolysis-GC, design 3059

## Rectification-gas chromatography, preparative, device, diagram 4592

## Resolution

- in chromatography, relation to informing power 5041
- , criterion considering relative retentions, computer calculation 5501
- in interrupted elution GC 3028
- , method for evaluation in GC of multi-component mixtures 3026
- in PTGC, vs. analysis time, prediction, model 1125

## Retention

- as alternative to temperature scale in isothermal GC 1730
- on binary phases, at finite solute dilution, mechanism 2507
- data, *see* Retention data
- , dead time, determination at various column temperatures, error in 1732
- , ECL, calculation from fractional chain length values (FCL) 3007
- , effect of phase and solute structures on 5504
- , empirical rules for determination, use in column selection 4077
- in GC with backflushing and temperature programming 5517
- increments, homologues, effect of free energy changes on 7
- index, *see* Retention index (indices)
- on mixed stationary phases, prediction, discussion 545

- and molecular structure, extensions of James-Martin's rule 4560
- , vs. molecular structure, review of correlations, in thesis 4560
- in preparative GC with phase concentration gradient on support 5486
- of pure compounds, prediction from physical data 4077
- , relation to thermodynamic data, mathematical description 4106
- relative, adsorption isotherm non-linearity effect on 4088
- —, on Carbowax-treated Celites, vs. column load 5051
- —, effect of adsorption on phase interface 3016
- —, errors of determination, theory, calculation, correlation 5040
- —, role in retention data precalculation, disc. 534
- —, vs. sample size, graph 4088
- —, vs. stationary phase reciprocal volume, graph 3016
- —, on various phases, for mixed phase selection 4089
- sequence effect of relative volatility and solubility 528
- temperature, in PTGC, calculation, equation for 2511
- time, *see* Retention time
- volume, *see* Retention volume(s)

## Retention data

- , obtained with automatic sequencer, reproducibility 5060
- , correlation for phase and solutes structures 5504
- , deviations, effect of operating parameters 5040
- , precalculation for temperature range of stationary phase 534
- , reproducibility, static and dynamic effects on 531

## Retention index (indices)

- , calculation of dependence on temperature, phase polarity 1077
- on chemically bonded MFSPEA vs. those on squalane 3550
- , column temperature effect on, theory, impact in GC 17
- , vs. column temperature, sorption thermodynamics from 1076
- , effect of instrumentation precision on 1741
- increments, prediction of retention indices from 2554
- on packed vs. SCOT columns 2589



- , principal-components analysis, factor model 536
  - , role in retention data precalculation, discussion 534
  - system, correlation to analytical characteristics 4559
  - —, correlation to structure of compounds 4559
  - —, Kováts', increments, more precise rules for 4074
  - —, phase characterization, use for 4559
  - —, principles, discussion 4558
  - —, qualitative GC, phase characterization, use for 4558
- Retention time (s)**
- , column parameters and temperature gradient effects on 1080
  - , effect of asymmetry of distribution on bias 12
  - , effect of column temperature changes, calculation, diagrams 18
  - , effect of errors, computer simulation vs. experimental 12
  - , effect of signal-to-noise ratio on bias 12
  - , minimization for given separation conditions 3530
  - in PTGC, prediction, mathematical model for 1125
  - , random noise effect on measurement 1079
  - , reproducibility, sensitivity, book chapter 2505
  - , vs. sample size, experimental and calculated, diagram 4
  - , sorption effect on, in non-linear chromatography 1728
  - , systematic errors in determination, theory, study 1081
  - on two columns in series, calculation 1102
- Retention volume(s)**
- , effect of carrier gas on, discussion 4575
  - , effect of standard peak location on precision 2552
  - , vs. electron polarizability of molecules, graph 37
  - , vs. liquid phase quantity, graph 1135
  - , net, role in retention data precalculation 534
  - , phase film thickness effect on, equations for 526
  - , specific, changes in, vs. zeolite form and type 3029
  - , —, concentration effects on, study 4070
  - , —, effect of Mn content in zeolite on 3038
  - , —, effect of moisture on reproducibility 4086
  - , —, vs. saccharose amount in support 25
  - , —, vs. specific surface areas of supports 25
  - , —, on supports with small specific surface areas 25
  - , —, vs. thickness of phase film 1743
- Sample**
- for GC, TLC, rapid drying case, 36 samples, construction 5056
  - loop, modified, dynamic subambient pressure sampling system 5515
  - size, admissible, experimental estimation vs. empirical equation 1759
  - —, effect on fraction purity in preparative GC 1111
  - —, effect on trace impurities trapping by preparative GC 1770
  - , solid vs. liquid, evaluation, study 5512
- Sampler**
- , MS-41, for capsule insertion into chromatograph, photo 4091
  - , pressurized liquid samples, temperature control, construction 5508
- Sampling**
- , choice of conditions, theoretical and experimental study 13
  - device for gases from molds, performance, design 4142
  - — for trace volatiles, using trapping chamber 27
  - , dynamic system for subambient pressure, performance 5515
  - , large samples, effect on retention volumes, discussion 541
  - , metal boat in injection port, involatile residues separation 4108
  - , repetitive bath injection, cycle time vs. retention time 4095
  - , solid, evaporation time, effect of probe material on 5512
  - system(s) for GC of gaseous fuels, in annual review 4590
  - — for preparation and dosage of volatile derivatives, design 66
  - —, review on, discussion 1753
  - —, solid, for pharmaceutical analysis, thesis chapter 4642
  - techniques, in GC, thesis chapter 4642
  - valve(s), characteristics, design, circuit, performance 3031

- —, high-pressure, performance, design, diagram 3031
- —, hybrid-fluidic, performance, design, diagram 3031
- — for minimal gas volume, design, diagram 5052
- of volatiles-containing solutions, syringe as shrinking bottle 4581
- Selectivity, dependence on solvents and structure of separated components 563
- Seminar, GC, theory and practice, Kazan 1973 2504, 3009–3011, 3018, 3021, 3025–3027, 3037, 3044, 3050–3052, 3056, 3059, 3061, 3063, 3098, 3107
- Separation
  - efficiency in preparative GC with phase concentration gradient 5486
  - factor, different expressions, validity, comparison 3533
  - —, vs. specific load and temperature in preparative GC 1760
  - of multi-component mixtures, method for evaluation 3026
- Septum bleed reduction by modification of injection port, study 5514
- Solute–solvent steric effect on retention data, study 4564
- Sorbate, effect of concentration on zone parameters in preparative GC 1116
- Sorbent(s)
  - , airborne particulate matter, interaction with SO<sub>2</sub>, study 4143
  - , alumina, modified with KF–HF mixed solution, study 5502
  - , —, modification conditions vs. elution on 3019
  - , barium dichloride, adsorptive properties 4572
  - , cellulose acetate fibres 2509
  - , chlorides of bivalent metals, chromatographic properties 4572
  - , classification by using Rohrschneider's graph 3027
  - , cobalt dichloride, adsorptive properties 4572
  - , deactivation with organosilicon compounds, review 1727
  - , effect of size on standard deviation of HETP, skewness, kurtosis 1075
  - , evaluation by differential scanning calorimetry 1772
  - for GC packed columns, selection, preparation, estimation, book 4068
  - for GSC with salt-modified sorbents, general article 524
  - , heterogeneous surface, adsorption on, theory, calculation 5035
  - , macroreticular cation-exchange resins, use in GSC 3546
  - , mica, modified, acid, base or silylated, application in GC 1755
  - , mixed, optimal selectivity, method for selection 4089
  - , modification by frontal method, industrial production 2524
  - , molecular sieve 5A, in stripping and analytical columns 4144
  - , mountain cork, separation of paraffins on, physical constants 3053
  - , nickel dichloride, adsorptive properties 4572
  - , polymer(s), deactivated, use as GC supports 5509
  - , —, porous, application in GC and LC, discussion 1750
  - , —, —, GSC adsorption study on 1772
  - , —, —, list of, preparation, separation properties 1750
  - , —, —, polyimide, characteristics, properties 2530
  - , —, silica-containing, preparation, properties 1101
  - , polyphenylsiloxane, evaluation of column efficiency 1749
  - , polysorbimide, structural, adsorption characteristics 2530
  - , Porapak Q, reproducibility of retention vs. conditioning 2510
  - , silica gel(s), characterization by pore systems, activity 1104
  - , —, effect of particle size on separation 1105
  - , —, esterified, surface model for adsorption on 564
  - , —, hydrothermal treatment vs. surface area 4579
  - , —, modified with alcohols, pore structure, study 2522
  - , —, —, study of adsorption properties 26
  - , —, surface model for organic molecules adsorption on 564
  - , —, surface-modified, GC properties, study 4579
  - , Silochrom, modified with bivalent metal chlorides, study 4572
  - , spherical, mass transfer in, moment analysis, calculation 1075
  - , Spheron type, determination of Rohrschneider's constants, table 1107
  - , Spherosil, optimization of GC conditions, examples analysis 2541

- , statistical effects of uneven porosity on zone shape 3
- , Sterling FT, coated, separation of isomers and isotopes on 3543
- , supports, with small specific surfaces, saccharose-modified 25
- , Synachrom R, determination of Rohrschneider's constants, table 1107
- , Tenax-GC, for trapping and sampling of trace volatiles 27
- , zeolites, properties and applications, book on 3006
- , —, X-type, containing alkali-earth metal cations 3022
- , —, —, containing Li, Na, K, Rb, Cs and Ag cations 3046
- Sorption**
- in adsorbates-sorbent systems, thermodynamics study 3526
- , effect on retention times in non-linear chromatography 1728
- Spectrometry, mass, connection with GC, description, design 3536**
- Standard mixtures for qualitative GC, preparation, chemical methods, review 5520**
- Statistical moments, total, calculated by various methods, errors 2508**
- for valve generated input peak profiles, table 3031
- Subtraction, by combining FID with scrubber, apparatus diagram, discussion 5067**
- Support(s)**
- , amount of phase coating vs. phase specific surface area 4574
- for analysis of sulphur compounds, 13, review in table 1799
- , Celite 545, deactivated with Carbowax 20M, use in GC 5509
- , Chromosorb W, non-extractable phase layer coated, preparation 4578
- , —, silylated, adsorption effects on 4
- , coating with phase, effect on selectivity and resolution 2540
- , —, on pilot plant scale, description 2520
- , cotton fibres 29
- , deactivation with organosilicon compounds, review 1727
- , diatomite earths, chromatographic properties evaluation 1756
- , distribution of pore volumes according to diameter, calculation 23
- , effect of ageing on reproducibility of retention data 4086
- , fibres, textile, used for GC separation of alcohols 29
- for GC packed columns, selection, preparation, estimation, book 4068
- , glass beads, Bentone-coated, efficiency study 540
- , —, Bentone gel-coated, efficiency study 540
- , —, microspherical, gel-coated, for isomers separation 540
- with large pore volumes, loading effect on adsorption 1093
- , open-pore polyurethane, permeability, porosity 1106
- , orlon fibres 29
- , particle homogeneity vs. velocity profile in preparative GC 1121
- , particle size and homogeneity, vs. HETP in preparative GC 1123
- , —, vs. velocity profile in preparative columns 1121
- , Polsorb, basic physicochemical properties, in table 556
- , — B, C, adsorptive and chromatographic properties, study 2533
- , — C, silanization effect on retention on 546
- , polymer-deactivated sorbents, use in GC 5509
- , Polysorb-I, GC study of properties, specific surface area by GC 3023
- , Porasil, modified, effect of dehydration on modification 2519
- , —, modified with chlorosilanes, characteristics 2519
- , porous spherical siliceous beads, chemically bonded phases on 3035
- , Rysorb-type, saccharose-modified, adsorption properties 25
- , silica, chemically modified, of Si-R type, properties study 4576
- , solid, for analysis of fatty acids and esters, guide 4606
- , spherical, attrition-resistant, properties, GLC uses 1109
- , Spherosil, optimization of GC conditions, examples of analysis 2541
- , Teflon T6, column filling, discussion 1830
- , wool fibres 29
- Surface**
- areas, specific, of flat materials, by dynamic desorption 562
- chemistry of glass open-tubular columns, review on 5503
- , specific, of modified silica gel, vs. pore size, graph 2522
- structure of copolymers, study by reversed-phase GC 4631

- Symposium 1073, 1074, 1104, 1105, 1126, 1140, 1161, 3035, 3100, 3599, 4067, 4071-4077, 4079, 4081, 4084, 4087, 4094, 4105, 4106, 4124, 4644, 4646, 4649, 4650, 5553  
—, preparative GC, Khar'kov, October 1971 1110-1118, 1120-1124, 1758-1760, 1762-1764, 1767, 1770, 1779, 1782, 1783, 1790, 1803, 1815, 1833, 2520, 2523-2527, 2529, 2534-2540
- Syringe, hypodermic, for extraction and concentration of dicyclomine 3608  
— as shrinking bottle, for volatile containing solutions, design 4581
- Tailing, due to aluminium tubing, TFAA treatment vs. peak symmetry 557  
— factors, empiric, for quantitative analysis of asymmetric peaks 530  
— in GC of phenols, inhibition with  $H_3PO_4$  5529
- Temperature  
—, column, vs. retention index, sorption thermodynamics 1076  
— programme for preparative GC, heating rate vs. column diameter 1122  
— programmers, review on, discussion 1753  
—, scale of, retention as alternative in isothermal GC 1730
- Theory  
— of adsorption 4, 564, 1728, 3524, 3529, 5035, 5063  
— of chromatographic peak 10, 11, 525, 529, 2508, 3531, 3534, 5037, 5038  
— of chromatographic process 6, 14, 23, 526, 527, 536, 1075, 2506, 4072, 4073, 4087, 4098, 4555, 5039  
— of retention 17, 531, 533, 1079, 3530, 5040, 5517
- Thermal analysis, application for determination of temperature in GC 1800
- Thermal conductivity, of gases and liquids, methods of determination, book 1726
- Thermodynamics  
— of chromatographic sorption at higher pressures, study 3044  
—, determination of parameters by chromatographic methods 4076  
— of liquids, at finite surface coverages, GC study 3559  
— of metals, IV group, ethyl derivatives, by GLC and GSC 612  
— of molecular association, two methods of calculation, comparison 3525  
—, relation to retention, mathematical description 4106  
— of sorption in stationary phase, equation for 1076
- Thesis  
—, determination of specific surface areas by dynamic desorption method 562  
—, dissertation, GC characterization of hydrocarbons 3532  
—, GC retention and molecular structure extensions 4560  
— on pharmacological aspects of solid sampling in GC 4642
- Trace analysis  
—, analyzer based on reaction-GC, use of 2545  
—, chromatograph for, PT precolumn, ECD detection 1765  
—, dual-load columns, application, advantages 1099  
—, dual-load PLOT columns vs. single-load, use of 5048  
— by GC, with monitored pneumatic switching 3551  
— —, using permeation and exponential dilution 3052  
— by GC-MS, 8-channel multiple detection, system for 4080  
— of organic volatiles, trapping chamber for GC 27  
— of pollutants, air, standard methods, discussion 5524  
— —, high-resolution MS applications 4149  
— —, in water, also GC, annual review 4660  
—, sensitivity raise by GC column priming with lecithin 5493  
—, ultra, GC, enrichment, elution, separation, detection 5033  
— of volatiles in non-volatiles excess, GC injection 3030
- Trace impurities, concentration by trapping by preparative GC 1770
- Transport function for chromatographic process description, discussion 4073
- Trap  
—, efficient, for GC effluents, design, diagram, performance 3036  
— fractionation, cold, combined with MS, principle, operation 5053  
— fractionation-MS, cold, also for carrier gas separation in GC 5053  
— as insert for modified GC injection port adsorbent 1173
- Trapping  
—, GC and column system, for silylation-GC 1768  
— of GC effluents from small-bore packed columns, apparatus 5507

- of organic compounds, traces separated by GC, for reaction-GC 4582
- of radioactive compounds, from GC effluents, method for 1831
- and reinjection system, for submicro amounts, design 5510
- of trace impurities, by preparative GC, sample size effect 1770
- Trapping chamber for sampling trace volatiles, using Tenax-GC 27
- Valve, sampling, for minimal volume gas, design, diagram 5052
- Velocity profile, *vs.* effect of particle size and homogeneity 1121
- Volatility, relative, *vs.* solubility, *vs.* elution sequence 528
- Zone(s)
  - , chromatographic broadening, dynamics, at non-linear isotherms 5036
  - — in preparative large-diameter columns, study 1121
  - dispersion, experimental parameters effect, *vs.* analytical columns 1115
  - in preparative GC, parameters *vs.* partition isotherm 1116

## Column Chromatography

- Adogen 1340  
 Adsorbosil CABN 1990  
 Affinase 2638  
 Affinity chromatography 112, 137, 138, 154, 158, 189–191, 643, 655, 658, 666, 1247, 1332, 1925–1932, 1934–1945, 2209, 2629, 2636–2647, 2690, 2693, 2697, 3129–3131, 3166, 3646–3658, 3726, 4165, 4175, 4176, 4178–4186, 4188, 4190–4193, 4704–4717, 5147–5152, 5154, 5199  
 —, packings for 137, 190, 666, 3124, 3166, 3644, 5153  
 Agar, granulated 225  
 Anakron AB 5237  
 Barium sulphate 2719  
 Bentonites 1212  
 Bibliography 4665  
 Bio-Beads 2164  
 Bondapak 3192  
 Books on liquid column chromatography 4677, 4682, 4684  
 Broadening effect 4690  
 Brushite 3738  
 Cadmium (as sorbent) 1391  
 Carbon, activated 5156  
 Carbowax 400, 1279, 1996  
 Cellulose, uncommon derivatives 4702  
 Centrifugal column chromatography 85, 1919, 1993  
 Charcoal–Celite 3672  
 Chelex 100, 2005, 2013  
 Chemical kinetics solved by chromatography 1865  
 Chitin 1210  
 Chitosan 1210  
 Chromatographic data, computer evaluation, *see* Computerization  
 Chromatographic peaks, statistical evaluation 1841  
 Chromatographs  
 —, optimum design criteria 105, 4173  
 —, set-ups 95, 101, 105, 646, 1218, 1220–1222, 1224, 1230, 1873, 1914, 1920, 1923, 2630, 2632, 3126, 3645, 4160, 4202, 4698, 4725  
 Chromatography  
 —, affinity, *see* Affinity chromatography  
 —, automation 1948  
 —, bioaffinity, *see* Affinity chromatography  
 —, centrifugal, column 85, 1919, 1993  
 —, continuous 1221, 2634  
 —, covalent 4167  
 —, differential 1227  
 —, dilution 4161  
 —, extraction, *see* Extraction chromatography  
 —, high-resolution, *see* High-resolution chromatography  
 —, high-speed, *see* High-resolution chromatography  
 —, ion-exclusion 2698  
 —, liquid, theory 89, 1186, 1188–1190, 1196, 1199, 1849–1853, 3627  
 —, of macromolecules, theory of 1849–1852  
 —, precipitation 1232, 1835, 1844  
 —, reaction 4695  
 —, with recycling 664, 2177, 4152  
 —, reversed-phase 1199, 1276, 3192  
 —, salting-out 804, 3203  
 —, sievortptive 3205  
 —, on thread 4277  
 Chromobead P 2031, 2042  
 Chromosorb W-HP 2161  
 Clathrates (S) 1886  
 Collagen (as sorbent) 4199  
 Colloidal particles (as sorbent) 1209  
 Column(s)  
 —, coiled 1917  
 —, combined 1193, 3199  
 —, efficiency 1189, 1197, 1371, 1855, 1857, 1899, 2173, 3633, 4160, 5135  
 —, hydrodynamic processes 2606  
 —, miniaturization 4173  
 —, new constructions 98, 100, 1219, 1223, 1228, 1229, 1917, 3766, 4173  
 —, operational parameters 1862  
 —, overloading 4160  
 —, packed with small particles 1208  
 —, parameters 4688  
 —, prepacked 2648  
 —, sequential arrangement 1905  
 Combined columns 1193, 3199  
 Computerization 2195, 2649, 3152, 5146  
 Concentration effects in LC 2621  
 Continuous liquid chromatography, equipment for 1221, 2634  
 Corasil 1266, 1279, 1353, 1354, 1376, 1907, 1955, 1958, 1988, 1989, 2151, 3134, 3192, 3630, 3700  
 Countercurrent chromatography, *see* Countercurrent extraction  
 Countercurrent extraction 1912, 1919, 2634, 4676, 4767, 4768, 5231  
 —, degree of resolution 1912  
 Covalent chromatography 4167

- Cromax LKB 2137  
Daiflon 1378, 1408  
Data processing 4159  
De Acidite FF 1334  
— of sorbents 1910  
— of supports 1910  
Detection  
— procedures, new principles 1871, 1875, 1914, 3691, 4172, 4674  
— reagents, new types 1202  
—, thermal 3200  
Detectors  
—, new constructions 96, 103, 104, 1201, 1202, 1867, 1870, 1872–1877, 1879–1881, 1914, 2625, 2626, 3121, 3200, 3640, 3642, 4698, 5141  
—, theory of 1859, 1878, 3120  
Diaion  
— SA 3199  
— SK 3199  
Diatomite 2182  
Differential chromatography 1227  
Digital integration for LC 5146  
Dilution chromatography 4161  
Displacement ion-exchange chromatography, theory of 1840  
Distribution coefficients 1191, 1861, 3635, 4788  
Dry column chromatography 1274, 1883, 3128, 4169  
—, preparative 3128  
Durapak OPN 1279, 1996  
Efficiency, *see* Column efficiency  
Elution  
— coefficient 3633  
— profiles 4694  
Extraction chromatography 217, 218, 1384, 1401, 1406, 4151, 4156, 4168, 4790, 4794  
Feed concentration 1231  
Ferric oxide (as sorbent) 2189  
Filter paper 2137  
Florisil 2165, 2705, 4255, 4769  
—, activity examination 648  
Flow-controlling device (LC) 1916  
Fluid grading method 3630  
Fluoroplast 4 1384, 2188, 4203, 4786  
Flusin T 3201  
Foam chromatography 645, 798, 1884, 2186, 2187, 4166  
Fraction collector, control system for 1946  
Frontal elution liquid chromatography 1256  
Gain amplifier 1950  
Gel permeation chromatography  
—, adsorption effects 4697  
—, comparison of gels 1889  
—, practice 1220, 1887, 1889, 1894, 2173, 4690, 4691, 4697  
—, preparative 1932  
—, theory of 1196, 1842, 1861, 1864, 1887, 3116, 3627, 5134, 5136  
Gels, unusual types 93, 1206, 1207, 1215, 1890, 1892, 1902, 1909, 2627, 3122  
Glass  
— beads 3630, 3633, 3813, 4744  
—, porous 4778  
—, powdered 2178  
— wool (as sorbent) 2709  
Gradient-forming devices 99, 102, 649, 1226, 1839, 5145  
— under pressure 5145  
Gradients  
—, choice of solvents 1216  
—, continuous and discontinuous, a comparison 670, 1859, 1860  
—, theory 1198, 1859, 1860, 1922  
High-flow-rate chromatography 1192  
High-resolution chromatography 122, 221, 650, 651, 791, 793, 1192, 1195, 1220, 1222, 1239, 1266, 1273, 1279, 1340, 1342, 1376, 1847, 1873, 1899, 1918, 1920, 2136, 2151, 2161–2163, 2205, 2608, 2633, 2713, 3149, 3153, 3187, 3192, 3643, 3659, 3660, 3685, 3763, 3772, 3773, 4244, 4726, 4732, 4734, 4760, 4770, 4771, 4779, 4781  
—, automated 3659  
—, computerization 1947  
—, equipment for 1222, 1225, 1228, 1229, 1920, 1924, 2633, 3125, 3126, 4173  
—, preparative 1229, 1911, 1913, 2611  
—, solvents for 1895  
—, sorbents for 1205, 1209, 1213, 1214, 1279, 3643  
—, stationary phases (*see also* individual sorbents) 1900  
—, theory 1847, 1848  
History 1184, 1845, 3628, 4678, 4679, 4689  
Hydrodynamic processes in columns 2606  
Hydrophobic interaction chromatography 4168, 4170  
Instrumentation, general 3113, 3624, 3625, 4685  
Interfacial tension 1844  
Ion-exchange chromatography  
—, in non-aqueous media 801, 802, 1390  
—, practice 4686, 4688  
—, *see also* individual types of ion exchange  
—, theory 1388, 1864, 3638, 4686, 5215  
Ion-exchange resins  
—, common types, *see* under specific names  
—, unusual types 92, 1212, 1217, 1903  
Ion-exclusion chromatography 2698  
Ion-pair chromatography 1843  
Kel F 1410  
Lanthanum oxalate 3801  
Lewatit S-100 3777

- Liquid chromatography  
—, comparison of different techniques 2698, 3136  
—, comparison to other chromatographic techniques 83, 1189, 1838, 1856, 1858  
—, theory 89, 1186, 1188–1190, 1196, 1199, 1849–1853, 3627  
Macromolecules, theory of chromatography 1849–1852  
Mass transfer 1188, 2620  
Merckogel 1366, 1917, 1977  
Merckosorb 1979, 5169  
Micropak Si 60 2661  
Mixed columns, ion-exchange chromatography 2196  
Mobile-phase mass transfer 1188, 2620  
Molecular diffusion 2622  
Molecular shape estimation by column chromatography 1853, 3637, 5137  
Molecular weight estimation by column chromatography 211, 699, 1365, 1369, 1372, 1863, 1866–1869, 1906, 2623, 2624, 3118, 3119, 3632–3634, 3636, 3637, 3639, 4164, 4696, 4722, 5137, 5138  
Monitors for column operation 647  
Motion of chromatographic bands 1186, 4690  
Optimum resolution 1848  
Oxides, porous (as sorbents) 3123  
Parametric pumping 4273  
Peaks  
—, curve fitting 3626, 4693, 4718  
—, polynomial representation 4692  
Pellionex AS 1905  
Pellisieve 4700  
Perisorb A 1907, 2162  
Permaphase  
— AAX 2133, 4774  
— ETH 1899, 1987, 2179  
— ODS 1229, 1899, 1956, 1987, 2179  
Pertitanic acid 2200  
Perturbing factors 1187  
Phase selectivity 1194  
Phloretin 4176  
Physicochemical data of solutes, estimation by chromatography 115, 120, 206, 210, 214  
Plaskon 1340  
Polyclar 1976  
Polynomial representation of peaks 4692  
Poly(trifluoromonoethylenylene), *see* Daiflon  
Poly(vinylpyrrolidone) 2131  
Porapak Q 1412, 2202  
Porasil 1402, 1888, 1904, 1988, 3630, 3700  
Pore glass chromatography 1863, 3630, 3633, 3813, 4744, 4778  
Pore  
— distribution 2173  
— size 3633  
Precipitation chromatography 1232, 1835, 1844  
Prepacked columns 2648  
Pressure, influence upon retention 4687  
Pulse circulation chromatography 91  
Pumps, *see* Chromatographs, set-ups  
Reaction chromatography 4695  
Recycling chromatography 664, 2177, 4152  
Resins  
—, commercially available, *see* under trade names  
—, pellicular 4701  
— for separation of optical isomers 1284, 1846, 2007  
Resolution of incompletely resolved peaks 1949, 4718  
Retention 1858, 2616, 4284, 4687  
Reversed-phase chromatography, theory of 1199, 1276  
Reviews  
— on affinity chromatography 643, 2604, 4155, 4666  
—, applications to diverse fields of science 80, 81, 87, 2618, 4663, 4670–4672, 4681  
— on gel permeation chromatography 2605, 2610, 3112, 3114, 3623, 4664, 4673, 4675, 4683  
—, general 82–84, 86, 644, 1183, 1184, 1921, 2605, 2606, 2609, 2613–2618, 2622, 3113, 3115, 3624, 3625, 4151–4154, 4156, 4662, 4667–4669, 4674, 4676, 4678, 4680, 4685, 4686, 4691, 5132, 5133  
— on high-resolution liquid chromatography 1185, 1901, 2608, 2611–2613, 3125, 3622, 4157  
Salting-out chromatography 804, 3203  
Sample loader, automatic 3127  
Sampling techniques 4669  
Sand 3206  
Separation of optical isomers 127, 1284, 1296, 1297, 1846  
Sievorptive chromatography, gradient arrangement 3205  
Silica gel  
—, silylated 4796  
—, spherical, preparation of 2628  
Silica spheres, porous 1898, 1908  
Silochroms 1891, 1893  
Silpearl UV 254, 4730  
Sil X 1354  
Sil-X-RP 3695, 4781  
Solvent evaporator for LC 1915, 2631  
Sorbents  
—, commercially available, *see* trade names  
—, deactivation 1910  
—, unusual types 97, 1836, 1886, 1888, 1891, 1893, 1896, 1897, 1910  
Spherosil XOA-400 1233, 1991



- Spinel 1215  
Stationary phases  
—, chemically bonded, general considerations 1211, 1901, 1904  
—, theory 1885, 1900, 1901, 1955, 4794  
Supercritical fluid chromatography 1882  
Supports, deactivation 1910  
Temperature, influence upon chromatographic separations 1231, 1275, 3117  
Thermodynamics of the chromatographic process 1864  
Thread chromatography 4277  
Titanium oxide 5142  
Votalef  
— 300 PL 2197  
— 300 UF 2197  
Zeolite(s)  
— A 5144  
—, synthetic 1389  
Zerolit 1275, 1994, 3659  
Zipax 1239, 1907, 1956, 2130, 2151, 2152, 3660, 5226  
—, ion-exchange resin coated 1413, 3134, 3187, 3681, 4774  
— SAX, *see* Zipax ion-exchange resin coated  
— SCX, *see* Zipax ion-exchange resin coated  
Zirconium  
— ferrocyanide 2199, 4782  
— phosphate 1380, 1381, 1383, 1388, 2185

## Paper and Thin-Layer Chromatography

- Activity coefficients, calculation from TLC data 293 T
- Adsorption  
 —, effect of temperature 3861 T  
 —, heat measuring 2766 T  
 —, theory of 837 T
- Alginic acid 4398 T
- Aluminium oxide  
 —  $\alpha$  842 T  
 — impregnated with AgNO<sub>3</sub> 2819 T  
 — sintered glass 2265 T, 3259 T
- Applications of spots 844 TP, 1454 T, 1456 T, 2213 P, 2251 T, 4289 PT, 4322 T, 4835 T, 5241 P, 5270 T  
 —, antidiagonal 4327 T  
 —, automatic apparatus 4289 PT, 4322 T
- Barium sulphate 1537 T
- Bentonite clay 4837 T
- Binders for TLC 280 T, 3865 T, 4824 T, 4830 T, 5275 T, 5278 T, 5281 T, 5282 T
- Bioassay, *see* Detection, bioassay
- Bioautography, *see* Detection, bioautography
- Books  
 — on chromatography 4800 PT  
 — on PC + TLC 2755 PT  
 — on TLC 2758 T, 3253 T, 3860 T
- Calcium sulphate 857 T
- Cellulose (in TLC)  
 — acetate 2769 T, 3960 T  
 —, *p*-aminobenzyl 951 T  
 —, carboxymethyl 316 T, 357 T, 2364 T, 5330 T  
 —, copper(II)-modified 2829 T  
 —, DEAE- 358 T, 958 T, 1510 T, 2839 T, 3234 PT, 3323 T, 3327 T, 3329 TP, 3373 T, 3850 PT, 4398 T, 4453 T, 4874 T, 4879 T, 5330 T  
 —, ECTEOLA- 292 T  
 —, mixture with DEAE-cellulose 2839 T, 3912 T  
 —, mixture with resins 361 T  
 —, PEI- 302 T, 305 T, 1511 T, 1512 T, 2319 T, 2837 T, 2838 T, 3326 T, 3832 PT, 4873 T, 4877 T, 4879 T, 4880 T, 4882 T, 4944 T, 5348 T, 5349 T  
 —, reactivity with separated compounds 3942 T  
 — triacetate 2244 T
- Centrifugal chromatography 2239 P
- Chamber  
 — for PC 5251 P  
 — for TLC 265 T, 1454 T, 4828 T, 4829 T, 5270 T, 5272 T  
 — for TLC on molecular sieves 2255 T
- Charge transfer 4325 T
- Conductivity detector 2722 PT
- Conical chromatography 226 P
- Data processing 882 T, 4448 T
- Desalting 3316 T
- Detection  
 — apparatus 2267 T  
 —, bioassay 905 T, 3353 T, 3354 T, 3830 P  
 —, bioautography 1435 P, 1524 TP, 4405 T  
 — by charring 2260 T  
 — by electrical conductivity 2722 PT  
 —, enzymatic 1420 PT, 2868 T, 3337 T, 4420 T  
 — after enzymatic hydrolysis 232 P  
 — by flame ionization 2263 T, 2265 T, 3256 T  
 —, fluorescence 331 T, 909 T, 2268 T, 5283 T  
 —, general reagents 841 T, 4291 PT  
 —, impregnation with reagent 264 T, 2268 T, 4356 T  
 —, phosphorescence 5346 T  
 — by plants 3242 P  
 —, review 843 TP  
 —, specificity 4290 P  
 —, studies on reaction products 4866 T
- Development  
 —, adsorption and partition on one layer 4323 T  
 —, centrifugal 2239 P  
 —, conical 226 P  
 —, humidity effect 2323 T  
 —, multiple 1455 T, 2266 T  
 —, over-run 313 T, 4302 PT, 4833 T, 5349 T  
 — phenomena 260 T, 827 P, 2720 P  
 —, radial 3261 T, 3287 T  
 — under red light 5360 T  
 —, temperature effect 883 T, 1425 P, 1455 T, 1500 T, 1502 T, 2323 T, 2754 P, 3301 T, 3861 T, 5360 T  
 —, three-dimensional 3309 T  
 —, vapour-programmed 1546 T, 2305 T
- Diastereoisomers, separation 888 T
- Distortion of spots, prevention 238 P
- Documentation of chromatograms 3255 T, 4832 T, 5273 T, 5277 T, 5337 T
- Drying of chromatograms 2267 T, 3866 T, 5280 T
- Dual-bed layers 951 T
- Elution of spots 957 T, 2763 T, 2764 T

- Equilibration of layers 840 T, 2253 T  
 Experiments for students and teaching  
 — in PC 807 P  
 — in TLC 830 T, 2284 T, 3257 T, 3959 T, 4326 T, 4885 T  
 "Finger printing" 239 P, 5245 P  
 Fixation of layers 2319 T  
 Flame-ionization detector 2263 T, 2265 T, 3256 T  
 Florisil 3891 T  
 Fluorogenic labelling 275 T, 300 T, 301 T, 1507 T, 2270 T, 2299 T, 2309 T, 3958 T, 4446 T, 4886 T, 5274 T, 5326 T, 5328 T, 5329 T  
 Glass-fibre paper 821 P, 1431 P, 1511 T, 2220 P, 2730 P, 2746 P, 3243 P  
 Glass as sorbent 2252 T  
 Gradients  
 — of AgNO<sub>3</sub> 3862 T  
 — of mobile phase 260 T, 835 T, 836 T, 2243 T  
 — of pH 3260 T, 3862 T  
 — of sorbents 3260 T  
 — of temperature 883 T, 1425 P, 1455 T, 1500 T, 1502 T  
 — of vapour 1546 T, 2305 T  
 Hansch's  $\pi$  values 831 T  
 History of PC and TLC 257 T, 808 P  
 Humidity effect in TLC 2323 T  
 Identification procedures 3222 P, 3223 P, 3859 T, 4288 PT  
 Impregnation  
 — with alanine 336-S 959 T  
 — with alanine oxide 959 T  
 — with *n*-alkanols 2323 T  
 — with amalgams 5266 P  
 — with ascorbic acid 4302 PT  
 — with benzoquinone 4325 T  
 — with boric acid 2296 T, 3299 T, 4342 T  
 — with copper sulphate 4356 T  
 — with 1,1'-diazido-4,4'-disulphostilbene 879 T  
 — with digitonin 1488 T  
 — with dimethylformamide (in TLC) 850 T  
 — with EDTA 1415 PT, 1487 TP  
 — with ferric chloride 3303 T  
 — with formamide (in TLC) 4391 T, 4927 T  
 — with formic acid 2305 T  
 — with indicators 2282 T  
 — with KHSO<sub>4</sub> 4346 T  
 — with manganese salts 4380 T  
 — with N-methylformamide 2721 P  
 — with oxalic acid 873 T  
 — with paraffin oil 2813 T, 3938 T  
 — with petroleum jelly 2777 T  
 — with polyethylene glycol 261 T  
 — with reagents 264 T, 2268 T  
 — with resins 4304 P  
 — with silica gel 1421 P; *see also* Paper with silica gel  
 — with silver nitrate 267 T, 320 T (only basic papers are referred to here)  
 — with stannic arsenate 252 P  
 — with stannous ferrocyanide 1449 P  
 — with titanium(IV) arsenate 2237 P  
 — with tri-*n*-octylamine thiocyanate 4815 P  
 — with tri-*n*-octylarsine oxide 959 T  
 — with tri-*n*-octylphosphine oxide 959 T  
 — with undecane 865 T  
 — with water 244 PT  
 — with water glass 5305 T  
 Information theory, use in TLC 258 T  
 Ion exchange  
 — layers 292 T, 293 T, 316 T, 361 T, 880 T, 886 T, 2276 T, 2318 T, 2364 T, 4398 T, 4941 T, 5330 T  
 — papers 249 P, 251 P, 252 P, 1449 P, 2738 P, 4304 P, 4315 P, 4388 TP  
 Ion-exchangers  
 —, cellulosic, *see* Cellulose  
 —, liquid 959 T, 1448 P, 4807 P  
 Kieselguhr  
 —, impregnation with dimethylformamide 850 T  
 —, impregnation with paraffin oil 2813 T  
 —, impregnation with undecane 865 T  
 —, sintered plate 1458 T, 2264 T  
 Layers  
 —, dual-bed (twin layers) 951 T  
 —, effect of channels 3287 T  
 —, etching 3313 T  
 —, luminescent 3864 T, 3865 T  
 —, precooling 4322 T  
 —, preparation 261 T, 268 T, 3258 T, 5275 T, 5278 T-5282 T  
 —, saturation with vapour 1546 T, 2305 T, 5272 T  
 —, self-supporting 1457 T  
 —, support, HF-etched glass 262 T  
 —, very thin 262 T  
 Magnesium oxide 2258 T, 2885 T  
 Mass spectroscopy, combination with TLC 275 T, 2299 T, 2309 T  
 Mechanism  
 — of development in TLC 258 T, 260 T, 261 T, 293 T, 827 T, 835 T, 836 T, 850 T, 959 T, 1453 T  
 — of sorption in PC 227 P  
 Micro plates and foils 891 T, 3283 T, 4909 T, 4917 T, 5251 P, 5305 T  
 Mixed-bed layers, *see* Sorbents, mixed-bed  
 Mobile phase, *see* Solvent systems and Gradient of mobile phase  
 Molecular sieves in TLC 1475 T, 1539 T, 2255 T, 2314 T, 2343 T

- Molecular weight  
 —, estimation by TLC 337 T, 2284 T, 2314 T, 5342 T  
 —, separation according to 4430 T  
 Multiple development 1455 T, 2266 T  
 Multiple spot formation 347 T, 1444 P, 3855 P, 4343 T  
 Optical antipodes 2244 T  
 Over-run development 313 T, 4302 PT, 4833 T, 5349 T  
 Paper  
 —, Chelex 4315 P  
 —, glass-fibre 821 P, 1431 P, 1511 T, 2220 P, 2730 P, 2746 P, 3243 P, 4299 P, 4820 P, 4922 T, 5251 P  
 —, ion-exchange, carboxymethyl cellulose 249 P  
 —, —, DEAE 1429 P, 2738 P, 3238 P, 3240 P, 4388 TP  
 —, —, ECTEOLA 249 P  
 —, —, resin 251 P, 4304 P, 4315 P  
 —, modification by heat 4805 P  
 —, silanization 2746 P  
 — with silica gel 1421 P, 3243 P, 4299 P, 4820 P, 5251 P  
 Paper chromatography  
 —, combination with ELFO 239 P, 2221 P  
 —, comparison with TLC 808 P, 4896 TP, 5240 PT  
 Particle size of sorbents 4827 T, 5280 T  
 Partition coefficient, calculation from  $R_F$  values 831 T  
 PEI-cellulose, *see* Cellulose, PEI  
 Perspectives of PC and TLC 257 T, 808 P  
 pH chromatography, *see* Solvent systems, pH effect  
 Photography of chromatograms 3255 T, 4826 T, 5273 T, 5277 T  
 Polarography  
 — without elution 4825 T  
 — after PC 245 P  
 — after TLC 3870 T, 3918 T, 4862 T  
 Polyacrylamide gel for TLC 2314 T  
 Polyamide 270 T, 853 T, 915 T, 924 T, 1453 T, 1461 T, 1506 T, 1507 T, 2304 T, 2323 T, 2769 T, 2771 T, 2773 T, 2786 T, 2852 T, 2882 T, 3268 TP, 3275 T, 3317 TP, 3335 T, 4347 T, 4383 T, 4823 T, 4842 T, 4851 T, 4872 T, 4937 T, 5329 T, 5338 T, 5361 T  
 Polymers, organic, as sorbent 838 T, 4824 T  
 Precipitation chromatography 2212 P  
 Precoated plates and foils 266 T, 268 T, 840 T  
 Preparation of layers, *see* Layers, preparation  
 Preparation of sample  
 — prior to PC 4319 P, 5266 P  
 — prior to TLC 951 T, 2251 T, 2765 T, 3316 T, 5385 T, 5390 T, 5391 T, 5396 T  
 Preparative-layer chromatography 3261 T, 4381 T, 4835 T, 4878 T, 5296 T  
 Profiles, chromatographic 251 P  
 Publication of chromatographic data 2246 TP, 2249 TP  
 Punched-out areas on start 1456 T  
 Quantitative analysis  
 —, adsorption heat, measurement of 2766 T  
 — after ashing 1436 P  
 —, elution of reaction products 2275 T  
 —, enzyme inhibition technique 332 T  
 —, fluorescence disappearance 2274 T  
 —, fluorimetry *in situ* 277 T, 289 T, 318 T, 909 T, 955 T, 1493 T, 1507 T, 2268 T, 3338 T, 3863 T, 3927 T  
 —, general papers 2262 T, 2286 T  
 — after hydrolysis 3357 T, 3940 T  
 — after oxidation to CO<sub>2</sub> 3256 T  
 —, polarography *in situ* 4825 T  
 —, review 2257 T, 3253 T, 3863 T  
 —, spectrophotometry *in situ*, apparatus 269 T, 839 T, 1459 T, 2259 T, 2768 T, 4324 T, 4831 T, 4834 T  
 —, —, various factors 262 T, 263 T, 269 T, 329 T, 1416 P, 2212 P, 2256 T, 2257 T, 2259 T, 2286 T, 2863 T, 3863 T, 4322 T, 4324 T, 5271 T, 5347 T  
 Radial development 3261 T, 3287 T  
 Radioactive-labelled compounds  
 —, activation analysis 964 T, 1450 P, 2894 T, 4943 T  
 —, autoradiography 2241 PT, 3828 P, 4872 T  
 —, estimation of errors during radiometry 4819 P  
 —, fluorography 2317 T  
 —, isotope dilution method 1522 T  
 —, liquid scintillation counting 3856 P, 5267 P, 5399 T  
 — after pyrolysis 2368 T  
 —, radioactive reagent 4872 T  
 —, review 3378 TP, 5268 PT  
 —, spark chamber 2369 T  
 —, stripping of the layer 4454 T  
 —, techniques for <sup>14</sup>C 828 P, 2241 PT, 2368 T, 4821 P  
 —, techniques for <sup>3</sup>H 2317 T, 2893 T, 4820 PT  
 Reaction chromatography 948 T, 2261 T, 2351 T, 3222 P, 3223 P, 3948 T, 3950 T, 4913 T  
 —, reaction between two runs 345 T, 2271 T, 5245 P  
 —, reactions on the start 1442 P, 1443 P, 3949 T  
 Ready-for-use plates and foils 266 T  
 Relationship between  $R_F$   
 — and biological activity 3247 P, 3842 P, 4822 T  
 — and chain length 3374 T, 5245 P

- and ionic radius 252 P  
 — and  $K_{sp}$  252 P  
 — and structure in PC 227 P, 1433 PT, 2215 P, 3222 P, 3223 P, 3245 P, 4314 P, 4801 P  
 — and structure in TLC 261 T, 293 T, 312 T, 833 T, 893 T, 940 T, 1433 TP, 2272 T, 2762 T, 2766 T, 3374 T, 3894 T, 4346 T, 4401 T, 4838 T, 4860 T, 4868 T, 5296 T
- Reviews  
 —, application of TLC and PC in various fields 2759 T, 2760 T, 3208 P, 3252 T, 3858 T, 4321 T  
 — on TLC 256 T, 2242 T, 2245 T, 2254 T, 3857 T, 3859 T  
 — on various types of chromatography 3816 PT, 3837 PT, 4799 PT, 5239 PT
- $R_F$  values  
 —, factors influencing 2245 T, 5240 PT  
 —, multiple 4288 PT  
 —, nomogram 5276 T  
 —, reproducibility 2246 TP, 2249 TP, 2721 P, 3254 T
- Ring colorimetry of TLC 1562 T  
 Rods as support in TLC 2263 T, 2265 T  
 Salting-out chromatography 4451 T, 5262 PT  
 Scraper for TLC 1460 T, 4908 T  
 Sephadex in TLC 1475 T, 1539 T, 2314 T, 2836 T, 4894 T, 5342 T  
 Silanization of paper or sorbent 2746 P, 4323 T  
 Silica gel 5280 T  
 — impregnated with formamide 4391 T, 4927 T  
 — impregnated with petroleum jelly 2777 T  
 — impregnated with pyrazole derivatives 2890 T  
 — impregnated with sodium silicate 5305 T  
 —, impurities 2295 T, 5310 T, 5319 T
- Sintered-glass plates 261 T, 268 T, 832 T, 1458 T, 2263 T-2265 T, 3259 T, 3285 T, 3864 T, 3865 T
- Solvent systems  
 —, correlated 4288 PT  
 —, gradients in TLC 260 T, 835 T, 836 T, 2243 T  
 — with liquid ion exchangers, *see* Ion exchangers, liquid  
 —, optimization of conditions 258 T, 834 T, 1513 T, 2214 PT, 2215 P, 2279 T, 2767 T, 4288 PT, 5269 TP, 5382 TP  
 —, pH effect 2214 PT, 3247 P, 4801 P, 4913 T  
 —, solid 846 T
- Sorbents  
 —, controlled particle size 4827 T  
 —, impurities 2295 T, 2823 TP  
 —, mixed-bed, alumina + Bentonite clay 4837 T  
 —, —, alumina + cellulose 2326  
 —, —, alumina + glass 1457 T  
 —, —, alumina + kieselguhr 4837 T  
 —, —, alumina + silica gel 910 T, 917 T, 1466 T, 1561 T, 4884 T  
 —, —, Celite + MgO 3873 T, 5292 T  
 —, —, cellulose + DEAE-cellulose 3912 T  
 —, —, cellulose + polyamide 3275 T  
 —, —, cellulose + silica gel 278 T, 4454 T  
 —, —, silica gel + cellulose acetate 2269 T, 4836 T  
 —, —, silica gel + glass 1457 T  
 —, —, silica gel + kieselguhr 2336 T, 3260 T, 3267 T, 3342 T  
 —, —, silica gel + Mg silicate 4353 T, 4360 TP  
 —, —, silica gel + MgSO<sub>4</sub> + Na<sub>2</sub>CO<sub>3</sub> 3274 T  
 —, —, silica gel normal + silanized 4323 T  
 —, —, silica gel + starch 1560 T  
 —, reaction with chromatographed compounds 870 T  
 Spectra, direct recording 4292 P  
 Spot(s)  
 —, application 844 TP, 1454 T, 1456 T, 2213 P, 2251 T, 4289 PT, 4322 T, 5241 P  
 —, —, antidiagonal 4327 T  
 —, distortion 238 P  
 —, elution from layers 957 T, 2763 T, 2764 T, 4908 T  
 —, multiple, formation 347 T, 1444 P, 3855 P  
 —, scraping from layer 1460 T, 4908 T  
 —, transfer 2223 P, 4887 T  
 Starch (sorbent) 849 T, 2248 T, 4452 T  
 Stationary phase in TLC 261 T, 271 T; *see also* Sorbents and Layers  
 Storing of plates 267 T, 840 T  
 Sucrose 937 T  
 Support for TLC 262 T, 2258 T, 2263 T, 2265 T, 3258 T  
 Systematic analysis 1528 T, 4290 P, 5269 TP  
 Talc 3913 T, 4369 T, 4864 T  
 TAS and thermofractography 845 T, 2775 T, 4433 T, 5290 T, 5396 T  
 Teaching, *see* Experiments for students and teaching  
 Temperature gradient 883 T, 1425 P, 1455 T, 1500 T, 1502 T  
 Thermochromatography 883 T, 1425 P, 1455 T, 1500 T, 1502 T  
 Thin-layer chromatography  
 —, combination with ELFO 884 T, 889 T, 890 T, 1462 T, 5348 T; *see also* "Fingerprinting"  
 —, combination with GC 336 T, 2764 T, 2788 T, 2794 T, 2848 T, 2857 T, 3273 T,

- 3319 T, 3337 T, 3867 T, 3928 T, 4345 T,  
4367 T, 4908 T, 5293 T, 5355 T
- , combination with LCC 2822 T, 4416 T
- , combination with mass spectrometry  
2299 T, 2309 T
- , combination with polarography 917 T,  
918 T
- , comparison with GC 312 T, 3938 T
- , comparison with immunoassay techniques  
5392 T
- , comparison with LCC 259 T, 1451 T,  
1452 T, 2253 T, 2761 T, 4824 T
- , comparison with PC, *see* Paper chromatography, comparison with TLC
- Transfer of spots 2223 PT, 4887 T
- Twin layers 951 T
- Vapour
  - pre-adsorption 5272 T
  - -programmed TLC 1546 T, 2305 T
- Washing the plate between two runs 3280 T
- Zirconium oxide 2258 T

## Electrophoretic Techniques

- Acrylamide, non-polymerized, as support 2956
- Affinity electrophoresis 4953
- Agar gel electrophoresis  
—, instrumentation 2385  
—, theory 415
- Agarose gels, endosmosis-free 3435
- Ampholytes 3403
- Apparent diffusion in isoelectric focusing 1576
- Artefacts in cellulose acetate electrophoresis 4484
- Books on electrophoresis 4457
- Buffer systems, multiphasic 368, 1566, 1567
- Chromatoelectrophoresis 4488
- Cellogel 448, 4048, 4530, 5029
- Cellulose thin layers 397
- Comparison of different electrophoretic techniques 2378, 2431, 2946, 2970
- Complex stability data from electrophoresis 2999
- Continuous electrophoresis 522, 2379, 3979, 4546  
—, equipment for 2404  
— in polyacrylamide gel 379, 4480
- Counterelectrophoresis 4027
- Crossed immunoelectrophoresis 3435, 3972, 4998, 5021, 5023
- Decoloration of polyacrylamide gels, instrumentation for 372
- Detection methods  
—, general 2373, 2376, 2377  
—, for paper electrophoresis 380  
—, for polyacrylamide gel electrophoresis 1592, 2991, 3385
- Detectors for immunoelectrophoresis 370
- Disposable equipment for electrophoresis 2911
- Electrical potential 1067
- Electroendosmosis 4484
- Electrophoresis  
— in cellulose acetate membranes, standardization 385  
— with flow gradient 5031  
— with a fluid belt 2380, 4957  
—, forced-flow 371  
— of free-stained substances 1592, 3386  
—, instrumentation, general 2901, 2902, 4460, 4957, 4958, 4960, 4977  
—, miniaturization 2492, 2908, 2909, 3965, 4960  
— in non-aqueous media 5028  
— in stabilized media, theory 385, 966  
— in starch gel, equipment 2903  
— without support, general consideration 2379, 2380, 5027  
—, two-dimensional, general considerations 2907, 2964
- Electrophoretic desalting 3422
- Electrophoretic mobility 4541
- Elution system for gel electrophoresis 4972
- Endosmosis, *see* Electroendosmosis
- Equipment, disposable 2911
- Fibrin-agarose gel as support 464
- Fibrinogen-polyacrylamide gel as support 464
- Forced-flow electrophoresis 371
- Glass fibre(s)  
— powder 5411  
— as support 3434
- Gradient(s)  
—, density, in polyacrylamide gels 2412, 4480, 4535  
—, pH 1574
- Gradient gel electrophoresis, practice 2412
- High-resolution electrophoresis 968
- High-voltage electrophoresis, new instrumentation for 3993
- Immunocore electrophoresis 2960, 4511
- Immunoelectrophoresis 402, 406, 433, 434, 454, 479, 484, 488, 984, 1014, 1023, 1042, 1570, 1604, 1643, 1656, 2409, 2413, 2427, 2451, 2900, 2951, 2952, 2955, 3416, 3418, 3430, 3972, 3997, 3999, 4005, 4019, 4028, 4029, 4038, 4471, 4530, 4534, 4987, 4992, 5002, 5007, 5017, 5020, 5402, 5414, 5430, 5468  
—, quantification 1569  
—, two-dimensional 3983
- Isoelectric focusing 390, 393, 402, 417, 427, 445, 475, 481, 482, 487, 491, 492, 514, 991, 1008, 1019, 1022, 1568, 1574-1576, 1606, 1632, 1650, 1652, 1657, 2388-2390, 2392, 2394, 2398, 2912-2914, 2916-2918, 2920-2923, 2925-2928, 2936, 3380, 3395, 3398, 3401, 3404, 3405, 3433, 3966, 3968-3978, 4464-4467, 4469, 4471, 4473-4475, 4477, 4478, 4961-4974, 5002, 5007, 5027, 5401-5406, 5408, 5409, 5455, 5458, 5459, 5465, 5468  
—, artefact formation 3406  
—, development in time 1574  
—, immunoassay 1568  
— in polyacrylamide gel 465, 1605, 1631, 2391, 2393, 2395-2397, 2400, 2401, 2910, 2924, 3397, 3399, 4468, 4470, 4472  
—, preparative 3402
- Isoelectric point 1574
- Isotachopheresis 373, 1713, 1714, 2402, 2403

- Large-scale electrophoresis 4479  
Magnetophoresis 2379  
Mobility determination 4541  
Molecular weight estimation by electrophoresis  
  969, 1055, 2375, 2898, 2899, 3381-3384,  
  3963, 3964, 4955  
Moving boundary 1565  
Nucleotide maps 1054, 2489  
Peptide maps 413, 475, 490, 1599, 1600, 1607,  
  1611, 1625, 3391, 3968, 4019, 4495, 5007  
Periodate buffers 387  
Pevicon 496, 1612, 1627, 5411  
pH gradient, segmental 1574  
Phoroslid electrophoresis 417  
Polyacrylamide-agarose gels 514, 4459  
Polyacrylamide gel(s)  
  —, autoradiography of 1572  
  —, combined with agarose 514, 4459  
  —, comparison with other electrophoretic  
  techniques 2378, 2431, 2946, 2970  
  —, core electrophoresis 3394  
  —, decoloration 372  
  —, device for photopolymerization 1571  
  —, electrophoresis, instrumentation 374, 382,  
  970, 2386, 2904, 4461, 4463  
  —, —, miniaturization 398, 4956  
  —, —, practice 345, 383, 1571, 1572, 2905,  
  2906, 4952  
  —, —, redox state of solutes 369  
  —, —, theory 366  
  —, —, two-dimensional 4062  
  —, fluorescence properties 3392  
  —, slab electrophoresis 374, 2387, 4463  
Polyacrylamide gradient gels 4480, 4535  
Polyacrylamide slicing device 4462  
Preparative electrophoresis  
  — in agarose 3390  
  —, apparatus 386, 3409, 3410  
  —, instrumentation 384, 2405, 2406  
  — in polyacrylamide-agarose gels 4975  
  — in polyacrylamide gel, general 2946, 3407,  
  3408, 4492, 4982  
  — in Sephadex 4482  
  — in starch gel 4976, 4978  
  — in immunoelectrophoresis 2900  
  — in polyacrylamide gels 377, 2979, 3386,  
  3388, 3389, 4458, 4956  
Resolution, theoretical considerations 1576  
Resolving power in isoelectric focusing 1576  
Reviews  
  —, application to clinical biochemistry 367,  
  2371, 4455, 4456  
  —, applications to various fields of science  
  and technology 2372, 2373, 2499, 4950  
  —, general 1564, 2373, 5400  
  — on isoelectric focusing 2897  
  — on isotachophoresis 365, 2897  
  — on polyacrylamide gel electrophoresis 364,  
  366  
Sample applicators 2381  
Scanning devices, new constructions 3387  
Separation of optical isomers by electrophoresis  
  3421  
Sephacel 2414, 4989  
Simultaneous analysis of large number of sam-  
  ples 2382, 2383  
Simultaneous chromatography and electro-  
  phoresis, device for 1573  
Slab electrophoresis in polyacrylamide gel 374,  
  2387, 4463  
Slicing 4462  
Sucrose density gradient 1702  
Safety system for high-voltage electrophoresis  
  2384  
Supports for electrophoresis, comparison 2385  
Tellurate buffers 387  
Temperature gradient, longitudinal, in iso-  
  tachophoresis 4951  
Transient-state isoelectric focusing 1575, 1576  
Vertical descending paper electrophoresis 389  
Zone  
  — area in isoelectric focusing 1574  
  — electrophoresis, multiphasic 1565-1567  
  — movement in electrophoresis 4954  
  — position in isoelectric focusing, comput-  
  erization 1574



## Index of Types of Compounds Chromatographed

In this index identical rules as in the Bibliography books (Supplementary volumes of the *Journal of Chromatography*) were used, e.g., references of general interest and techniques are listed first, followed by applications and finally by papers limited to a certain area of applications only.

Please note that this index refers to the entry numbers in the Bibliography Section. The entries have been published according to the following schedule:

<i>Entries</i>	<i>Vol./No.</i>	<i>Entries</i>	<i>Vol./No.</i>
1-522	88/1	3005-3521	93/2
523-1071	89/1	3522-4064	95/1
1072-1724	90/1	4065-4551	96/2
1725-2503	92/1	4552-5031	97/1
2504-3004	92/2	5032-5483	97/2

- A**
- 3561, 4141, 4143, 4144, 4150, 5067, 5098, 5102
- Accelerators**  
T: 1541, 3360, 5377
- Acids, see Carboxylic acids**
- Acrylic resins**  
C: 213, 1369, 2179  
E: 4541  
G: 633, 1163, 1814, 1815, 2568, 2582, 4631  
T: 2874, 2875, 3942, 4430
- Actinides and uranium**  
C: 220-222, 1409-1412, 2198, 2202, 3803, 3805, 3808, 3810, 3811, 4286, 4782, 4790, 4791, 4794  
E: 519, 1710, 3001  
G: 2573, 4656  
P: 251, 252  
T: 958, 959, 3373, 4453
- Actinomycins**  
C: 3192  
E: 1064, 2992  
P: 820
- Adrenergic substances, see Sympathomimetics**
- Aflatoxins**  
C: 1957, 3135, 3666  
T: 852, 854, 855, 1467, 1471, 2774, 3270, 4327, 4329, 4332, 4334, 4336, 4337, 4339, 4843, 5288, 5289
- Agrochemicals (other than pesticides)**  
C: 2704, 4775  
T: 352, 935, 3934, 5374
- Air pollution**  
G: 48, 571, 639, 1133, 1158, 1177, 1799, 1810, 1830, 2553, 2559, 2576, 3054, 3062, 3110,
- 5241  
T: 1463, 1464, 2269, 2848, 3262, 3264, 3939, 4836
- Alcohols**  
—, aliphatic  
G: 62, 577, 579, 3066, 3083, 3572, 3573, 3604, 3609, 4120, 4121, 4122, 4597, 4645, 4659, 5074  
T: 273, 848-850, 2279, 3266, 4326  
—, cyclic  
C: 1898  
G: 3570, 3574, 4643
- Aldehydes, see Oxo compounds**
- Alkali metals**  
C: 1380, 2194, 3809, 4285  
P: 252, 2239  
T: 4941
- Alkaline earths**  
C: 1382, 3198, 3803, 3809, 4782, 4791, 5143, 5231  
P: 252, 1449  
T: 958, 959, 963, 2364, 2889, 4941
- Alkaloids**  
C: 790-793, 1352-1355, 2160, 2161, 3187, 3770-3773, 4767, 4768  
G: 67, 2569, 4128, 4617  
P: 242, 1431, 2744  
T: 306-311, 893-899, 1513-1517, 2320-2322, 2842-2847, 3330-3333, 3913-3921, 4389-4393, 4883-4889  
—, general techniques  
C: 1353, 1354

- P: 1431  
T: 307, 1513, 3862, 3865, 4886  
—, complex mixtures  
C: 3187  
P: 2744  
T: 5279  
Aluminium, *see* Cations, inorganic, analytical group III  
Amides  
G: 1149, 1825  
P: 3223, 4290  
T: 2762, 3902, 4450, 4930, 4931, 4935  
Amidines  
G: 3807  
T: 3922  
Amines  
C: 123, 124, 664–666, 1276–1279, 2000–2003, 2663–2665, 3700, 3701, 4210, 4611–4613, 5165, 5166  
E: 4995, 5417  
G: 62, 63, 602, 2568, 3085–3088, 3588, 3589, 4611–4613, 5086–5090  
P: 815, 2219, 3222–3224, 4304, 5253  
T: 876–879, 2299–2303, 2828, 4379, 4380, 4867–4869, 5326–5330  
—, general techniques and theory  
C: 133, 2003, 3700, 3701  
G: 62, 63, 3085, 3088, 3588, 3589, 4611, 5086  
P: 3224, 4304  
T: 293, 833, 2299, 2302, 2309, 5326, 5328  
—, aliphatic amino alcohols  
C: 666, 4266  
P: 3845, 3846  
T: 2337  
—, aliphatic polyamines and derivatives  
C: 1277, 2002, 2003, 3701, 4210, 4737, 5165, 5166  
G: 602, 3589, 5087, 5088  
P: 3224  
T: 1500, 3958  
—, alkyl  
C: 3640, 5139  
G: 1796, 3588, 4611  
T: 293–295, 2279, 2337, 2850, 5328  
—, cyclic, techniques and theory  
C: 1279, 1845, 3134, 3660, 3700  
G: 50, 1795, 3085, 4612, 5090  
P: 4290, 4304  
T: 293, 833, 878, 879, 2299–2301, 2369, 2764, 3903, 4379, 4380, 4398, 4868, 5326, 5330  
—, —, applications  
C: 124  
T: 877, 965, 2303, 2759, 2828, 2851, 3901, 4867, 5376, 5384  
Amino acids  
C: 125–131, 667–670, 1280–1288, 2004–2012, 2666–2669, 3152–3154, 3702–3705, 4211–4217, 4738–4741, 5167–5172  
E: 397, 398, 976–978, 1596, 2424, 2935, 3421, 3422, 4488, 4996  
G: 64–66, 603, 604, 1151, 1798, 3089, 4126, 4614  
P: 237, 238, 816, 1423–1425, 2220, 2734, 2735, 3225, 4305–4307, 4806, 5254, 5255  
T: 296, 297, 880–887, 1502–1507, 2304–2309, 2829, 2830, 3310–3318, 3904–3907, 4381, 4870, 5331–5333  
—, techniques  
C: 125–131, 668, 670, 1280, 1282, 1284–1286, 1288, 1330, 1914, 2007, 2009–2011, 2013, 2668, 3152, 3156, 3642, 3702, 3704, 4212–4215, 4217, 4218, 4738–4740, 5167, 5171  
E: 397, 976, 978, 2424, 3393, 3421, 3422, 4995  
G: 50, 64–66, 603, 1151, 1181, 4126, 4127, 4614, 4615  
P: 238, 816, 1425, 2221, 2735, 4806, 4807, 5267  
T: 846, 883, 884, 886, 890, 1502, 2276, 2304–2306, 2764, 2829, 2849, 3310, 3312, 3316, 3905, 3906, 4381, 4944, 5274, 5298  
—, applications, non-biological  
C: 667  
G: 604, 1798  
P: 237, 1424  
T: 1503–1505, 2830  
—, —, enzymatic reactions  
T: 3904, 3907, 4870  
—, —, microorganisms and plants  
C: 126, 1281, 2006, 4741  
P: 3225, 5255  
T: 3315, 5332  
—, —, blood  
C: 2004, 2005  
E: 4996  
P: 5254, 5331  
T: 880, 882, 3905  
—, —, urine  
E: 4996  
G: 1178  
P: 1423, 5331  
T: 3314, 3316  
—, —, other biological material  
C: 1283, 1285, 1287, 2012, 3155, 3157, 4189, 5172  
E: 977, 4488  
G: 3089  
P: 2220, 3850, 4808  
T: 881, 882, 2307, 2834, 3850  
—, derivatives  
C: 127, 128, 2000, 2666, 2667, 3153, 3154, 3703, 3705, 5168–5170  
E: 398, 405, 2493, 2935  
G: 3089, 3090, 4615, 4616

- P: 1427, 2220, 2734, 4306, 4809, 5255  
 T: 296, 297, 887, 891, 1506, 1507, 2304, 2305, 2308, 2309, 2833, 3835, 3311, 3313, 3317, 4872, 5333, 5337-5341
- , iodinated  
 C: 92, 160, 169, 2008, 2648, 2669, 4211  
 P: 4305, 4307  
 T: 838, 885, 1559
- , metal complexes  
 C: 1392, 1396, 1397, 3198, 4272, 4280, 5176, 5230, 5235, 5236  
 E: 1596
- Amphetamines  
 G: 50, 1819, 2590, 3103  
 P: 247, 248  
 T: 341, 347, 350, 1556, 2350, 4441, 4446, 5386, 5387, 5389-5393
- Anaesthetics, local, *see* Local anaesthetics
- Analeptics, *see* Psychotropic drugs
- Analgesics, *see* Antipyretics, etc.
- Androstane derivatives  
 —, techniques  
 G: 595, 599, 600, 5084  
 T: 1491, 2823, 4364, 4861
- , applications, non-biological  
 C: 1271, 1272, 3635
- , —, biological  
 C: 661, 3145, 3147, 3691, 4207, 4731  
 G: 595  
 T: 831, 2817, 2818, 2824, 3293, 3297, 3300, 3304, 4362, 4370, 5315
- Anions, inorganic, techniques  
 C: 3640, 3642  
 E: 2403, 2499, 2500, 2501  
 P: 2234, 4818  
 T: 2891, 2892
- See also* Halides and other inorganic halogen compounds; Nitrogen-containing inorganic anions; Phosphorus compounds, inorganic; Sulphur compounds, inorganic.
- Anthocyanins  
 C: 4681  
 P: 3819, 4292, 4294  
 T: 3819, 4294, 4333
- Anthraquinones  
 T: 277, 856, 1473, 3872, 4340
- Antibiotics  
 C: 795, 3192, 3193, 3776, 5226  
 E: 517, 1063-1066, 2500, 2992, 2993, 3519, 4540  
 G: 1806, 3598  
 P: 820, 1435, 2230, 3243, 3838, 3839, 4316, 4317, 4814, 5260-5262  
 T: 323-328, 903, 1524-1527, 2332, 2861-2866, 3342-3345, 3929, 4405-4415, 4901, 5363-5371
- , general techniques
- C: 3193  
 E: 1065, 2993, 3519, 4540  
 T: 903, 1527, 2332, 4405
- Antidepressants, *see* Psychotropic drugs
- Antidiabetics, oral  
 G: 4139  
 T: 954, 1550
- Antifungal antibiotics  
 PT: 5260
- Antihistamines  
 P: 249, 5382  
 T: 4921, 5382
- Antiinflammatory agents, *see* Antipyretics, etc.
- Antimalarial drugs  
 T: 4918
- Antimony, *see* Cations, inorganic, analytical group IIb
- Antioxidants  
 C: 2205, 4797  
 G: 641  
 T: 2761, 2855, 2882, 2895, 3961, 3962, 4947, 4948, 5377
- Antiparasitic drugs  
 G: 4653  
 T: 3363, 3365
- Antipyretics, analgesics, antiinflammatory agents and antitussives  
 C: 1237, 2180, 2181, 3777-3779, 4267, 4779-4781  
 G: 75, 76, 1169, 4641, 5117  
 P: 1441, 3844  
 T: 841, 946, 948, 949, 1459, 1549, 1551, 2349, 3361, 3362, 3949, 4440, 4444, 4921, 4925, 4928, 5277, 5380, 5384, 5390
- Antiseptics and desinfectants  
 G: 5114  
 T: 3254, 4926
- Antitumour antibiotics  
 T: 4409, 5366
- Antitussives, *see* Antipyretics, etc.
- Appetite depressants  
 P: 1440  
 T: 4446
- Arsenic, *see* Cations, inorganic, analytical group IIb
- Aza heterocyclics  
 G: 2570
- Azides  
 G: 3092
- Azulenes  
 T: 872, 873
- B**
- Barbiturates  
 G: 74, 1161, 3104, 4647, 5108, 5111

- P: 3247  
 T: 350, 950, 1546, 1549, 2350, 2351, 3865, 3946, 4436, 4822, 4927, 4929, 5271, 5391-5393
- Barium, *see* Alkaline earths
- Beryllium, *see* Cations, inorganic, analytical group III
- Bile acids  
 C: 2662, 3690, 4208  
 E: 2423  
 T: 291, 869, 1489, 1490, 1492, 1494, 3297, 3302, 4366, 5322
- Bile pigments  
 T: 4894
- Biotin group  
 C: 1361
- Biphenyl and derivatives  
 T: 275, 926, 1458, 1535, 3938
- Bismuth, *see* Cations, inorganic, analytical groups I and IIa
- Bitter substances  
 C: 1994, 3149, 3150, 4736  
 G: 2567, 4610  
 T: 4939
- Boranes  
 C: 4770, 4771  
 G: 4625  
 P: 2746  
 T: 2828
- C**
- Cadmium, *see* Cations, inorganic, analytical groups I and IIa
- Caesium, *see* Alkali metals
- Calciferols, *see* Vitamins, D
- Calcium, *see* Alkaline earths
- Cannabis constituents, *see* Hallucinogenic drugs
- Capsaicinoide  
 T: 355, 2360
- Carbazoles  
 G: 1134, 2553  
 T: 5356, 5357
- Carbohydrates  
 C: 106-117, 653-655, 1240-1249, 1969-1984, 2653-2656, 3137-3139, 3668-3680, 4196-4200, 4721-4724, 5155-5161  
 E: 387-392, 971, 972, 1577-1588, 2416-2418, 2929, 2930, 3411-3419, 3980-3984, 4979-4987, 5407-5411  
 G: 54, 55, 589, 590, 1139, 2562-2564, 3068-3072, 3577-3579, 4115, 4598-4600, 5078, 5079  
 P: 229-233, 809-814, 1416-1418, 2216, 2217, 2725-2727, 3212-3217, 3823-3827, 4295-4297, 4802, 4803, 5242-5248  
 T: 857, 1475, 2274-2278, 2779-2783, 3272, 3273, 3875, 3876, 4342-4344, 4848-4850, 5296-5299
- , reviews  
 G: 4661
- , theory  
 G: 5079  
 P: 5245  
 T: 5296
- , general techniques  
 C: 1242, 1960, 2654, 2655, 2717, 3117, 3137, 3138, 3642, 4197, 5156  
 E: 387, 2929, 4979  
 G: 1139, 3071, 3072, 4598, 5079  
 P: 231, 232, 1416, 2216, 2217, 3826, 5245  
 T: 2275, 3272, 4343, 4833, 5296
- , —, applications, non-biological  
 C: 110, 1240, 5155, 5157  
 G: 2562  
 P: 809, 810, 812, 3827, 5246  
 T: 2277, 4850
- , —, microorganisms  
 P: 813, 4803, 5243  
 T: 2278
- , —, plants  
 C: 106  
 P: 1417, 2274, 3827, 4340  
 T: 2274, 3272, 4340
- , —, animal material  
 C: 1245  
 G: 2564  
 P: 233, 1416, 2779, 3217, 5244, 5247  
 T: 2779, 3875, 4342, 5247
- , derivatives, acids and lactones  
 C: 1966, 1967, 4723  
 E: 4979  
 G: 4599, 5082
- , —, alcohols  
 C: 3117, 3671, 5157  
 G: 1139, 2563, 3069, 4599  
 P: 2726, 4813  
 T: 857, 1465, 1466, 4344, 4813, 4837
- , —, aminosugars  
 C: 1241, 3677, 3678  
 E: 3980  
 P: 2725, 3212, 3213, 3216, 4821, 5248  
 T: 2276, 3212, 3216, 4342, 4848, 4881, 5297, 5298
- See also* Glycosaminoglycans
- , —, anhydrosugars  
 P: 2726, 4813  
 T: 2783, 4813, 4849
- , —, deoxysugars  
 C: 3668, 3670  
 G: 3579  
 P: 809, 3214, 3856  
 T: 4881

- , —, methylated sugars  
 C: 107, 3668, 3670  
 E: 4979  
 G: 3070, 4599  
 P: 813, 5244
- , —, phosphates, *see* Phosphorus compounds, organic
- , —, sulphur-containing  
 C: 1249, 2653, 3668, 3676  
 E: 3980, 5408  
 P: 230, 3824, 4802  
 T: 230, 2782, 2783  
*See also* Glycosaminoglycans
- , —, other  
 C: 3139, 3672  
 G: 3072, 3587  
 P: 4296  
 T: 2780, 2781, 3273, 3876
- Carbon oxides  
 G: 1174, 1827, 1828, 2595–2598, 3107, 4142, 4145, 4587, 4654, 5123, 5126
- Carboranes  
 G: 615, 1803, 4625
- Carboxylic acids  
 C: 1250–1254, 1976–1978, 2657, 3681–3686, 4201, 4202, 4725, 5162  
 E: 1589  
 G: 56, 591, 1786–1790, 2563, 3580, 4116, 4117, 4601–4604, 5080–5082  
 P: 234, 2218, 2728, 2729, 3218, 3219, 4298, 4804, 5249, 5250  
 T: 278–281, 858, 859, 1476, 1477, 2279–2285, 2784–2795, 3274–3278, 3877–3882, 4345–4351, 4851–4853, 5300–5304
- , reviews  
 C: 3624, 4667, 4668  
 G: 4606
- , general techniques  
 C: 1899, 3120, 4201  
 G: 579, 1786, 3580, 4602, 5081  
 P: 5250
- , higher fatty acids  
 C: 1252  
 G: 50, 57, 1791, 3073, 3075, 3076, 3078, 3079, 3583–3585, 4117, 4119–4121, 4605, 5081, 5083, 5121  
 P: 2728, 2729  
 T: 1476, 2279, 2280, 2284, 2728, 2729, 2785, 2787, 2788, 2794, 2795, 2821, 3276, 3277, 3878, 3880, 4345, 4348, 4824, 4859, 5301, 5306
- , lower fatty acids  
 C: 1250, 3638, 3640, 3642, 4202  
 E: 1589  
 G: 79, 570, 1181, 1788, 1822, 2600, 3106, 3111, 3583, 3611, 4119, 4140, 4603, 5080  
 P: 2720, 4298
- T: 2283, 2795, 4298, 5304
- , non-volatile (aliphatic hydroxy acids, di- and tricarboxylic acids)
- , —, techniques  
 C: 1242, 1978  
 E: 2402  
 G: 56, 591, 1789, 1790, 1825, 3611, 4601, 4604  
 P: 2218, 2720, 3219  
 T: 278, 2789, 2795, 2892, 3219, 3274, 3276, 4346, 4350, 4853
- , —, applications  
 C: 2657, 3682, 4202, 4725, 4727, 4728  
 G: 1178  
 P: 322, 1419, 4298  
 T: 278, 322, 1419, 2787, 2788, 2791, 3878, 4298, 5300
- , oxo acids  
 C: 1254, 1978  
 E: 2402, 4995  
 G: 606, 2565  
 P: 5249  
 T: 2281, 3372, 5300
- , cyclic acids, techniques  
 C: 1253, 1843, 1899, 1976, 1977, 3663, 3681, 3683, 3684, 3686, 4257, 4270, 5162  
 G: 56, 1787  
 P: 1441, 2720, 3209, 3218, 3222, 3933, 4294, 4804  
 T: 274, 858, 2282, 2285, 2764, 2790, 2794, 2795, 3218, 3933, 4294, 4347, 4851
- , —, non-biological applications  
 G: 1832, 3620, 3621  
 T: 281, 1476, 1477, 3881, 3902, 4852, 5302
- , —, biological applications  
 G: 1178  
 P: 238, 2724, 2888  
 T: 279, 859, 2888, 3370, 3371, 3882
- Cardiac glycosides  
 C: 3148, 4734  
 G: 3082  
 P: 1422  
 T: 1498, 2825, 3306–3308, 3893–3895, 4373, 4374, 4864
- , techniques  
 C: 3148, 4734  
 P: 3829  
 T: 3306, 3865, 3893, 3894, 4373, 4864
- , applications  
 P: 1411, 2721  
 T: 1548, 2825, 3895
- Catechins  
 P: 227, 2724, 4290  
 T: 276, 4330
- Catecholamines  
 C: 665, 1278, 1843, 2001, 4216, 4737  
 G: 1181

- T: 293, 1548, 2361, 2884, 3865, 4869, 5326  
—, metabolites  
G: 62, 67, 2594, 4643  
P: 234, 5303  
T: 2285, 2361, 2784, 2786, 3368, 5303
- Cations, inorganic  
C: 215–219, 798–803, 1378–1408, 2185–2196, 2714, 2715, 3198–3202, 3801–3809, 4268–4285, 4782–4793, 5230–5237  
E: 518, 1068–1070, 1709–1714, 2499–2502, 2999–3001, 4543, 4544, 5031, 5481–5483  
G: 4656  
P: 251–253, 825–827, 1442–1449, 2232–2239, 2754, 2755, 3250, 3851–3855, 4320, 4815–4818, 5265, 5266  
T: 357–361, 957–963, 1560–1563, 2362–2365, 2889–2892, 3373–3375, 3959, 3960, 4451–4453, 4940–4943, 5397, 5398  
—, —, techniques  
C: 215, 218, 798, 800, 803, 1378, 1381, 1383, 1388–1392, 1406, 1948, 2190, 2191, 2195, 2715, 3640, 3642, 3802, 3803, 4268, 4273, 4277, 4783, 4788, 5233  
E: 1068, 1069, 2499–2501  
G: 1154, 2574, 3590, 4131, 4133  
P: 251, 252, 825, 1449, 2237, 2753, 2754, 5266  
T: 359, 957–960, 1560, 1561, 2363, 2364, 2890, 3853, 3959, 3960, 4452, 4911, 4940  
—, —, analytical groups I and IIa (Ag, Bi, Cd, Cu, Hg, Pb, Pd, Tl)  
C: 219, 1384, 1387, 1407, 2186, 2188, 2196, 3806, 3807, 4166, 4276, 4282, 4782, 4784, 4785, 4791, 4795, 5143, 5237  
E: 1711–1714, 2502, 4544, 5031  
G: 2574, 3590, 4132, 4623  
P: 251, 252, 1443, 1446, 1449, 2232, 2235, 2754, 3854, 3855, 4315, 4815, 4817, 5266  
T: 357, 359, 958, 959, 962, 1476, 1560, 2364, 2830, 2889, 3250, 3960, 4452, 4941  
—, —, analytical group IIb (As, Mo, Sb, Se, Sn, Tc, Te, V, W)  
C: 217, 1386, 2185, 2193, 2200, 2718, 3201, 3803, 3805, 3806, 4276, 4284, 4784, 5234  
E: 4543  
G: 1135, 2574, 4655  
P: 251, 252, 1442, 1449, 2236, 2238, 2240  
T: 958, 959, 1561, 2240, 2252, 2367, 2889, 3373, 4941  
—, —, analytical group III (Al, Be, Co, Cr, Fe, Ga, Mn, Nb, Ni, Ta, Th, Ti, Zn, Zr)  
C: 219, 799, 801, 802, 1379, 1384, 1385, 1394, 1396–1399, 1401, 1403, 1408, 2185, 2186, 2188, 2196, 2197, 2199, 2702, 2714, 3803, 3805, 3806, 3809, 4166, 4270, 4271, 4275, 4276, 4278, 4279, 4282, 4782, 4784, 4787, 4791–4793, 4795, 5143  
E: 518, 519, 1070, 1709, 2502, 3001, 4543, 4545, 5031  
G: 2573, 3590, 4131, 4133, 4656  
P: 251–253, 1444–1446, 1449, 1455, 2235, 2238, 2722, 2753, 2754, 3851, 3852, 3854, 4320, 4817, 5266  
T: 359, 958, 959, 962, 1455, 1560, 1563, 2364, 2722, 2830, 2889, 3373, 4940–4942, 5398  
*See also* Alkali metals; Alkaline earths; Actinides and uranium; Platinum metals and gold; Rare earths  
—, —, complex mixtures  
C: 3803–3806, 3809, 4268  
P: 825, 1449, 2237  
T: 958, 2363, 2890, 3853, 3959
- Cells and viruses  
C: 225, 2209, 2719, 3813, 4287, 5238  
E: 393, 1715–1717, 2503, 3520, 3521, 4548, 4550, 5482, 5483
- Cellulose acetate  
T: 4428
- Ceramides, *see* Glycolipids
- Cerebrosides  
T: 2803, 2811  
E: 2999, 3000
- Chelates  
C: 2702, 3202  
G: 614, 1106, 1154, 2514, 3590, 3601, 4133  
*See also* Amino acids, metal complexes; Cations, inorganic
- Chemotherapeutics  
C: 3195  
T: 346, 955, 3363
- Chloramphenicol and related antibiotics  
G: 636, 1806  
T: 1527, 5363
- Chloroplast pigments  
P: 3246  
T: 258, 269, 830, 937, 938, 1538, 2342, 2809, 3255, 4427, 4910, 4912
- Choline and related compounds  
C: 4729  
E: 4988, 5417  
G: 5120  
P: 815, 4820, 5253  
T: 1548
- Cholinergic substances  
G: 3608, 5120  
T: 942
- Chromium, *see* Cations, inorganic, analytical group III
- Chromones  
T: 5291
- Chromoproteins and metalloproteins  
C: 442–450, 991, 1008–1011, 1633, 1635, 1636, 2426, 2444–2450, 2496, 2927, 2953, 2965, 3394, 3402, 3432, 3436, 3458, 3987, 3991,

- 4017-4020, 4032, 4456, 4478, 4505, 4509, 4512, 5442-5444  
 E: 146-151, 688, 702-704, 707, 1313, 1314, 2066, 2067, 2679, 2682, 3167, 3168-3170, 3715, 3731, 4228, 5187-5189, 5223  
 —, structural studies  
 C: 443, 982, 2937, 3991, 4017, 4468, 4495, 4496  
 E: 135, 1295, 2026, 4743, 5179
- Cinchona alkaloids  
 C: 793  
 E: 4483  
 T: 307, 898, 951, 1517, 2320, 2844, 3259, 3330, 3362, 3865, 3921, 4885, 5279, 5382
- Clinico-chemical applications  
 G: 595, 600, 637, 1143, 1146, 1171-1173, 1797, 1804, 1821, 1822, 1826, 2594, 3104, 3105, 4140, 5119-5121  
 P: 233, 234, 1416, 1423, 2888, 3249, 3824, 3850, 4299, 4301, 5244, 5254, 5331  
 T: 279, 285, 286, 294, 349, 846, 859, 860, 871, 880, 882, 1483, 1493, 1559, 2285, 2286, 2361, 2369, 2784, 2814, 2888, 3282, 3283, 3296, 3298, 3299, 3301, 3304, 3368, 3369-3372, 3850, 3886, 3891, 3905, 3958, 4299, 4301, 4358, 4367, 4372, 4859, 4890, 5297, 5317, 5327
- Coal tar hydrocarbons  
 C: 4195, 4798  
 G: 573, 1134, 3059, 3061, 3063, 3564-3568, 4592, 5094
- Cobalamins, *see* Vitamins, B<sub>12</sub>
- Cobalt, *see* Cations, inorganic, analytical group III
- Colchicum alkaloids  
 C: 792  
 T: 834, 4389
- Copper, *see* Cations, inorganic, analytical groups I and IIa
- Coumarins  
 C: 651, 1958  
 P: 3210  
 T: 4331, 5286, 5290
- Curare alkaloids  
 T: 2321
- Cytostatics  
 G: 2588  
 T: 4924
- D**
- Desinfiens, *see* Antiseptics and desinfiens
- Detergents, *see* Surfactants and detergents
- Dithiocarbamates  
 P: 2750  
 T: 2324
- Diuretics  
 G: 4639  
 P: 2231  
 T: 4442, 4922
- DNA  
 —, reviews  
 E: 1051  
 —, techniques  
 C: 1345, 1350, 1355, 1925, 2144, 2701, 4248, 4766  
 E: 1059, 1060, 1693, 1694, 2991  
 —, applications  
 C: 784, 1346-1349, 2145, 3767, 4248, 4765  
 E: 1692, 1695, 1696  
 —, complex mixtures of DNA, RNA and DNA-RNA hybrids  
 C: 2701, 3769  
 E: 1703  
 —, structural studies  
 C: 1351, 2149  
 E: 1059, 1061, 2486-2488, 3509
- Drugs, synthetic, *see* Pharmaceutical applications, and individual types of drugs
- Dyes  
 —, natural, *see* Pigments, natural  
 —, synthetic, reviews  
 C: 1364  
 —, —, theory and techniques  
 P: 3245, 4319  
 T: 1458, 1536, 1537, 2869, 3259, 4913, 5272  
 —, —, applications  
 C: 2168, 4258  
 P: 1438, 1439  
 T: 335, 349, 2872, 3861, 4826  
*See also* Food dyes; Inks; Pharmaceutical dyes; Textile dyes
- E**
- Ecdysones  
 G: 1144  
 P: 3220
- Enzymes  
 C: 163-194, 715-771, 1320-1326, 2072-2128, 2682-2696, 3169-3182, 3728-3762, 4232-4243, 4750-4759, 5194-5217  
 E: 468-499, 1022-1050, 1645-1671, 2463-2480, 2974-2988, 3465-3507, 4034-4053, 4526-4537, 5010-5024, 5449-5471  
 T: 1508, 2314  
 —, reviews  
 C: 643, 2109  
 —, techniques  
 C: 137, 4241, 4717  
 E: 2988, 4959

- T: 1508  
—, complex mixtures and incompletely defined enzymes  
C: 770, 2048, 2128, 2684, 2685, 2691, 2694, 2695, 3178, 3180, 3181, 3669, 3682, 3739, 3744, 3761, 3762, 4185, 4240, 4242, 5201, 5205, 5216  
E: 498, 499, 1669, 1698, 2478–2480, 3380, 3491, 3506, 3507, 4047, 5467  
See also Hydrolases; Isomerases; Ligases; Lyases; Oxidoreductases; Transferases
- Epoxy compounds  
E: 2392  
G: 5077
- Ergot alkaloids  
C: 791, 1354, 2151, 4767  
G: 2593  
T: 3259, 4391, 5271, 5354, 5382
- Essential oils  
C: 1274, 4203, 4219  
G: 60, 79, 597, 598, 1147, 1182, 4125, 4608, 4609  
P: 3210  
T: 872, 875, 2358, 2826, 2827, 3309, 3867, 4376, 4377, 4865
- Ethers  
C: 3660  
G: 577, 4113, 4141, 4147, 4596  
T: 2833
- Excipients of drug forms  
C: 3141  
T: 2354, 2355, 2882, 3884, 3962
- F**
- Ferrocenes  
C: 2155, 4253
- Flavins, *see* Vitamins, B<sub>2</sub>
- Flavonoids and other  $\gamma$ -pyrone derivatives  
C: 3667, 4681  
G: 1137  
P: 228, 242, 3818–3820, 4290, 4294, 4335  
T: 838, 853, 1557, 2771, 2775, 2884, 3268, 3819, 4294, 4335, 4347, 4811, 4824, 4840, 5290
- Folic acid and other pteridine derivatives  
C: 4774, 5225  
P: 1433, 1434, 3241  
T: 316, 318, 321, 1433, 2854, 2860, 3241, 4899, 4900
- Food dyes  
C: 2167, 2706, 4777  
P: 4319, 5263  
T: 2341, 2873, 4911, 4914, 5376
- Fungicides  
G: 616
- P: 1436  
T: 275, 910, 923, 1528–1530, 2335, 2337, 4418, 4426
- Furans  
C: 2652, 5139  
G: 2561, 3074  
T: 3871
- G**
- Gangliosides  
C: 1982  
E: 2928  
P: 5248  
T: 2797, 2803, 3290, 4355, 4833, 4858
- Gases, inorganic  
G: 640, 1830, 3615, 4142, 4143, 4655, 5123, 5127  
See also Carbon oxides; Hydrogen, nitrogen, oxygen; Nitrogen oxides; Noble gases
- Glycerides, simple  
C: 661  
G: 592, 1140, 3585, 4120  
T: 285, 287, 288, 860, 2813
- Glycolipids (including sphingolipids)  
C: 657, 1257, 1261, 1981, 3687, 3688  
E: 1591  
P: 2730, 2802, 4299, 5251  
T: 283, 861, 866, 1482, 2287, 2797, 2801–2803, 2810–2812, 3279, 3281, 3289, 3291, 3292, 3879, 3888, 4354, 4361, 4858, 5307
- Glycols  
C: 652  
G: 577, 580, 2560, 3101, 3581  
T: 286, 1465, 1466, 3266, 3869, 3879, 4837, 4916
- Glycoproteins  
—, techniques  
C: 1965  
E: 3388  
—, applications  
C: 115, 654, 1243–1245, 1248, 1963, 1964, 1968, 2656, 3674, 4193, 4198, 5158–5160  
E: 391, 392, 971, 972, 995, 1014, 1577, 1578, 1581, 1582, 1584, 1585, 1588, 2407–2409, 2920, 2930, 3411, 3413, 3416, 3418, 3419, 3463, 3982, 3983, 4983, 4984, 4987, 5409, 5410  
PT: 811, 3216  
—, structure investigation  
C: 653, 1245  
E: 1587  
P: 229, 811  
T: 811
- Glycosaminoglycans (including proteoglycans from connective tissue)



- C: 113, 116, 117, 1249, 1962, 1971, 1972, 3669, 3673, 3675, 3678-3680, 4199, 4200, 4721  
 E: 388, 1579, 1580, 1586, 1588, 3412, 3414, 3415, 3417, 4982, 4985, 5405, 5407  
 P: 3215, 3824  
 T: 5299  
*See also* Carbohydrates, derivatives, amino sugars
- N-Glycosidic antibiotics**  
 E: 2491, 3519  
 P: 2865, 3839, 4316, 4317  
 T: 328, 906, 1525-1527, 2865, 3342, 3343, 3839, 4316, 4407, 4411, 4415, 5365, 5368
- Gold, *see* Platinum metals and gold**
- Growth factors**  
 C: 2703, 3191  
 G: 4134  
 P: 3242
- Guanidine and guanidine derivatives**  
 C: 2664  
 P: 3224, 3249  
 T: 315
- H**
- Haemagglutinins and blood group determining substances**  
 C: 111, 112, 114, 655, 1247, 1969, 1970, 1974, 1975, 2639, 3652, 4190, 4707-4710  
 E: 389, 1583, 2923, 3419, 3981, 3984, 4953, 4981  
 —, structural studies  
 C: 3709  
 E: 4499
- Halides and other inorganic halogen compounds**  
 C: 1400, 2189, 3640, 4269  
 G: 640, 1135, 1175, 1176, 3615, 4655, 5125  
 T: 358, 4945
- Hallucinogenic drugs**  
 C: 1238  
 G: 635, 1170, 1819, 2591, 2593, 3607, 4138, 4637, 4642  
 T: 350, 353, 944, 2348, 2352, 2356, 2772, 2879-2881, 3334, 4432, 4433, 4435, 4438, 4439, 4445, 4929, 5383, 5386
- Halogen derivatives of hydrocarbons, *see* Hydrocarbons**
- Harman alkaloids**  
 P: 242
- Herbicides**  
 G: 628, 1812, 4627, 5100  
 P: 1437, 3244, 3933  
 T: 907, 913, 914, 936, 1531, 1534, 2334, 2337, 2339, 3347, 3352, 3356, 3840, 3930, 3931, 3933, 3936, 3937, 4420, 4423, 4425
- Histamine and related compounds**  
 T: 3338, 4890
- Hormones, peptidic and proteinous**  
 C: 2019, 2021, 4747, 5174  
 E: 984, 3423, 3986, 4490, 5403  
*See also* Insulin; Pituitary hormones; Thyroglobulins
- Humic acids**  
 C: 2707, 5228  
 E: 1067, 1707  
 P: 255  
 T: 3275
- Hydrazides**  
 C: 1589  
 P: 5249  
 T: 4933
- Hydrocarbons**  
 —, reviews  
 C: 2618, 4663  
 —, aliphatic  
 C: 1955, 3132, 3643  
 G: 560, 572, 575, 576, 1133, 1777, 1778, 1780, 1781, 1828, 2549, 2550, 2553, 2555, 2595, 2597, 2598, 3051-3054, 3056, 3058-3061, 3063, 3074, 3107, 3108, 3561, 3564, 3565, 3569-3571, 3619, 4109, 4142, 4145, 4587, 4589, 4592, 4632, 4654, 5066, 5067, 5070-5072, 5124, 5125, 5129  
 T: 3262, 5293  
 —, cyclic  
 C: 650, 1233, 1873, 1899, 1951-1953, 1956, 2651, 3133, 3134, 3635, 3643, 3645, 3662, 3663, 4194, 5140  
 G: 45, 46, 560, 570, 571, 573-575, 579, 1134, 1135, 1779, 1781, 1782, 2551, 2553, 2554, 3051, 3052, 3056-3058, 3061, 3064, 3106, 3561, 3563, 3564, 3567, 3568, 3570, 3619, 4589, 4632, 5066, 5068, 5071, 5094, 5128, 5129, 5131  
 P: 5241  
 T: 847, 1463, 1464, 2269, 2767, 2769, 2848, 3264, 3265, 3868, 4325, 4836, 5283, 5293  
 —, complex mixtures  
 C: 81, 88, 2650  
 G: 1781, 4108, 4145, 4590  
 —, halogen derivatives  
 C: 1235, 1899, 2650, 3660, 3661, 3663  
 G: 48, 574, 577-579, 1133, 1135, 1136, 1176, 1783-1785, 2556-2559, 3065, 3572, 4111, 4593, 5073, 5125
- Hydrogen, nitrogen, oxygen**  
 G: 639, 1827, 1828, 2596, 3106, 3613, 4142, 4587, 4654, 5123, 5124
- Hydrolases**  
 —, acting on ester bonds (E.C. 3.1.-.-)  
 C: 173, 179, 185, 189, 744, 745, 755, 757, 771,

1937, 2100, 2105, 2108, 2638, 3182, 3632, 3740, 3741, 3754, 3761, 4230, 4237, 4239, 4242, 4714, 4754, 4755, 4757, 5152, 5154, 5208, 5212

E: 480, 483, 485, 492, 1043, 1655, 1660, 1667, 2382, 2473-2475, 2495, 2979, 2981, 2983-2985, 3389, 3396, 3487, 3494, 3498, 3500, 3506, 3972, 3974, 4048, 4474, 4535, 4966, 4973, 5406, 5464, 5467

—, acting on glycosyl compounds (E.C. 3.2.--)

C: 176, 178, 181, 186-188, 743, 747, 749-752, 754, 756, 1928, 1929, 1931, 2101-2103, 2110, 2111, 2114, 2115, 2643, 2693, 3129, 3175, 3634, 3646, 3649, 3742, 3752, 3753, 3762, 4164, 4184, 4706, 4714, 5216

E: 482, 487, 489-491, 493, 1044, 1046, 1657, 2395, 2398, 2915, 2918, 3382, 3391, 3398, 3488, 3489, 3493, 3495-3497, 3979, 4048, 4050, 4533, 4534, 5467

T: 2836

—, —, structural studies

C: 2041

E: 3391

—, acting on peptide bonds (E.C. 3.4.--)

C: 175, 177, 180, 184, 738-741, 746, 748, 753, 1323, 1324, 1897, 1930, 1936, 1944, 2097-2099, 2104, 2107, 2112, 2113, 2647, 3174, 3177, 3651, 3653, 3743, 3746, 3748-3751, 3755, 3756, 4167, 4186, 4187, 4236, 4238, 4715, 4756, 4758, 5206, 5207, 5209-5211, 5217

E: 481, 484, 1039-1042, 1045, 1656, 1659, 1661, 1664-1666, 1668, 2388, 2471, 2472, 2912, 2916, 2980, 2982, 3391, 3443, 3490, 3492, 3499, 3977, 3997, 4047, 5019, 5020-5023, 5457, 5458, 5460, 5463, 5468, 5470, 5471

TP: 2314

—, —, structural studies

C: 1300, 1303, 2031

E: 1607, 3391, 3997

T: 4384

—, acting on C-N bonds other than peptide bonds (E.C. 3.5.--)

C: 174, 742, 1325, 3176, 3648, 3650

E: 459, 494, 1658, 2476, 2922, 4046, 4049, 4465, 4532, 5459, 5461

—, acting on anhydride bonds (E.C. 3.6.--)

C: 183, 737, 1943, 2096, 2106, 3632

E: 486, 488, 1663

—, —, structural studies

E: 4491, 5421

Hypnotics, *see* Barbiturates; Sedatives, hypnotics and narcotics

Hypotensives

G: 4640

T: 4919, 4922

## I

### Imidazoles

C: 516

G: 68, 309, 4618

T: 312, 4394, 4890

### Indoles

#### —, reviews

G: 4134

PT: 3837

#### —, techniques

E: 794, 2153

P: 4290

T: 2848, 3334

#### —, applications

G: 573, 605, 607-609, 1134, 5113

T: 3237, 3337, 5327

### Inks

T: 939

### Inorganic compounds

#### —, reviews and books

E: 644, 1835, 3114, 4156, 4673

G: 77, 4622

P: 1447, 2212, 2755

T: 2755

#### —, theory

P: 252, 827, 4818

T: 2243, 2890

*See also* Cations, inorganic; Anions, inorganic; individual types of cations and anions

### Insulin

C: 1568

E: 702, 2017, 2018, 4742

—, structural studies

C: 684, 1296

E: 411, 980, 986

### Iron, *see* Cations, inorganic, analytical group III

### Isoalloxazines

G: 4129

T: 4891

### Isomerases (E.C. 5.--.--)

C: 496, 3504, 3505, 4051, 5466

E: 761, 3759, 4712, 5213

## K

### Ketones, *see* Oxo compounds

## L

### Lactames

T: 3922

## Laxatives

T: 277

Lead, *see* Cations, inorganic, analytical groups I and IIa

## Lichen acids

T: 3877

## Ligases

—, forming C–O bonds (E.C. 6.1.–.–)

C: 191, 762, 763, 765, 2126, 3179, 3760, 4178, 5137

E: 1049, 2391, 3405, 4968

—, —, structural studies

E: 542

—, forming C–S bonds (E.C. 6.2.–.–)

C: 2696, 3118

E: 2389, 4962

—, forming C–N bonds (E.C. 6.3.–.–)

E: 1048, 3395

—, other (including E.C. 6.5.–.–)

C: 764, 1326, 2127, 5214

## Lignin compounds

C: 4196

G: 52, 54, 4116

T: 362

## Lipids

C: 118–121, 656–660, 1255–1267, 1979–1982, 2658, 3140–3144, 3687–3689, 4203, 4729

E: 393, 1590, 1591, 2410, 4988, 5412

G: 57–59, 592, 593, 1140, 1791, 3581–3585, 4118–4120

P: 235, 1419–1421, 2730, 4299, 4300, 4805, 5251, 5252

T: 282–288, 860–867, 1478–1487, 2286–2291, 2796–2814, 3279–3292, 3883–3888, 4352–4361, 4854–4859, 5305–5313

—, reviews

G: 593, 3082, 4118, 4661

P: 287, 4300, 5252

T: 287, 2805, 4300, 5252

—, general techniques

C: 1255, 1256, 1263, 1266, 1979, 2206, 3142, 3685, 3812

E: 2494

G: 3618

T: 264, 862, 2263, 2286, 2290, 2796, 3256, 3283, 3285, 3287, 4356, 4359, 5305, 5308

—, applications, non-biological

C: 120, 121, 1979

G: 59, 3581, 3582

T: 282, 288, 363, 864, 2355, 2807, 3286, 3288, 3379, 3884, 3887, 4402, 4403, 5306

—, —, microorganisms

C: 1262, 3688

E: 373

P: 1420, 1421, 1487, 2799, 3883, 4352, 4803

T: 283, 1420, 1480, 1487, 2291, 2799, 3883, 4352, 4803, 4855

—, —, plants

C: 1258

T: 2288, 2809, 3279, 3288, 3319

—, —, blood

C: 658

G: 1140

T: 285, 286, 860, 867, 1478, 1483, 2286, 2814, 3282, 3283, 3292, 3886, 4358, 4859

—, —, nerve tissue

T: 1479, 2804, 2810, 3277

—, —, other animal material

C: 3144

E: 5412

T: 1481, 1482, 1484, 1486, 2796, 2806, 3280–3282, 3369, 4357, 4857, 5309, 5311, 5313

*See also* Cerebrosides; Gangliosides; Glycerides, simple; Glycolipids; Phospholipids

## Lipopolysaccharides

C: 4205

## Lipoproteins

—, techniques

C: 1939

E: 973, 975, 2414, 2416, 2422, 3385, 4485, 4486, 4972, 4989

—, applications

C: 1268, 1939, 1983, 4204, 5163

E: 394–396, 974, 1592–1595, 1613, 2411–2413, 2415, 2417–2421, 2497, 2931–2934, 3420, 3982, 3985, 4006, 4487, 4990–4994, 5413–5416

## Local anaesthetics

T: 3364, 3842, 3865, 4432, 4437, 4923, 5382

## Lyases

—, carbon–carbon (E.C. 4.1.–.–)

C: 2116–2118, 2121, 2122, 2124, 2125, 5138

E: 495, 1047, 2987, 4536, 5024, 5465

—, —, structural studies

C: 2033

E: 3426

—, carbon–oxygen (E.C. 4.2.–.–)

C: 758–760, 1945, 2119, 2120, 2123, 2645, 3757

E: 2477, 3501, 3503, 3506, 4963

—, —, structural studies

C: 2034, 2035, 2039, 2672

—, carbon–nitrogen (E.C. 4.3.–.–)

C: 3758

E: 3502

—, other (E.C. 4.4.–.–, E.C. 4.5.–.– and E.C. 4.99.–.–)

C: 3172

## M

Macrocyclic antibiotics (including erythromycin and macrolide antibiotics)

C: 3776

T: 1527, 2681, 2862, 2864, 4405, 4414, 5367

Magnesium, *see* Alkaline earths

Manganese, *see* Cations, inorganic, analytical group III

Mercapturic acids

G: 3089

Mercury

—, inorganic, *see* Cations, inorganic, analytical groups I and IIa

—, organic

G: 613, 4132

P: 4315

T: 4404

Metal carbonyls

C: 4250, 4251, 4252, 4769, 5224

Metalloenes (excluding ferrocenes)

C: 1360

Mineral oils, hydrocarbons

C: 81, 88, 121, 1232, 1234, 1954, 3662

G: 47, 1779, 1781, 2552, 3050–3052, 3055, 3056, 3059, 3063, 3569–3571, 4108, 4589, 4591, 5069, 5071

T: 272, 363, 3263, 3379

Molybdenum, *see* Cations, inorganic, analytical group IIb

Mycotoxins

G: 638

T: 1468–1472, 3269, 4328

*See also* Aflatoxins

## N

Narcotic antagonists

C: 3187

G: 1820

T: 1556, 3951, 5391–5393

Narcotics, *see* Sedatives, hypnotics and narcotics

Nicotinic acid and derivatives

C: 4774

G: 4617

P: 3238

T: 2859, 3865

*See also* Pyridine derivatives

Nickel, *see* Cations, inorganic, analytical group III

Niobium, *see* Cations, inorganic, analytical group III

Nitriles

G: 1149, 1150, 4146

P: 3222

T: 4867

Nitro compounds

C: 1843, 1995, 1998, 2623, 2624, 3635, 3663

G: 61, 601, 1794, 1795, 3587, 5131

P: 243, 3248, 4304

T: 243, 833, 876, 1499, 2298, 2766, 2795, 4378, 4866, 4923, 5330

Nitrogen, *see* Hydrogen, nitrogen, oxygen

Nitrogen-containing inorganic anions

C: 3200, 3638, 3701

G: 1829, 2599, 3614

Nitrogen heterocyclic compounds, *see* Aza heterocyclics; Bile pigments; Carbazoles; Histamine and related compounds; Imidazoles; Indoles; Isoalloxazines; Oxadiazines; Oxazines; Porphyrins and metalloporphyrins; Pyridine derivatives; Pyrroles; Quinazolines; Quinoline derivatives

Nitrogen oxides

G: 640, 1177, 1828, 2595, 4144

Nitrosamines

C: 1996, 1997, 1999, 2663, 2665

G: 61, 1148, 5122

T: 3899, 3900, 5329

Nitroso compounds

P: 4290

Noble gases

G: 639, 1827, 1828, 2595, 5123, 5124

Noble metals, *see* Platinum metals and gold

Nucleosides, *see* Purines, pyrimidines, nucleosides, nucleotides

Nucleotides, *see* Purines, pyrimidines, nucleosides, nucleotides

## O

Oestrogens

—, techniques

G: 594, 600

T: 3892, 4861, 5319, 5320

—, applications

C: 1989, 1992, 2659, 3146, 3635, 4207, 4731

G: 1146

P: 1497, 2732, 3828, 4302

T: 1497, 2292, 2294, 2820, 3298, 3890, 4302, 4363, 4371, 5318

Oligo- and polynucleotides

C: 1336, 1345, 2130, 2138

E: 1683, 1688, 5479

P: 3235, 3236, 3329, 3831, 3911, 4308, 4310–4312, 4388

T: 2839, 2840, 3329, 3831, 3911, 4308, 4312, 4388, 4875, 4879

Opium alkaloids

C: 890, 2152, 3187, 3773

E: 4483

G: 67, 5092

- P: 5257, 5382  
 T: 307, 311, 350, 899, 951, 1514, 1515, 2350, 2843, 2845, 3259, 3333, 3914-3917, 4390, 4393, 4432, 4447, 4883, 4884, 4888, 4889, 4919, 5353, 5382, 5390, 5393
- Organometallic compounds, *see* Chelates; Ferrocenes; Mercury, organic; Metal carbonyls; Metallocenes; Porphyrins and metalloporphyrins; and references 3591, 3593, 4624
- Organosilicon compounds, *see* Silicon organic compounds
- Oxadiazines  
 T: 4892, 4893
- Oxazines  
 G: 584  
 T: 4932
- Oxidoreductases  
 —, acting on the C-OH group of donors (E.C. 1.1.-.-)  
 C: 163, 715, 2072, 2073, 2075-2077, 2080, 4180-4183, 4750, 4752, 5147, 5195, 5196, 5200  
 E: 469, 472, 1022, 1024, 1029, 1645-1648, 1651, 1652, 2400, 2464, 2465, 2921, 2926, 2975, 3465, 3468, 3470, 3471, 3969, 4466, 4526, 4530, 4531, 5011-5013, 5015, 5401, 5450, 5451, 5454  
 —, —, structural studies  
 C: 2038, 4180  
 E: 402  
 —, acting on the aldehyde or keto group of donors (E.C. 1.2.-.-)  
 C: 724, 2683, 3641, 3728, 4183, 4751  
 E: 471, 1649, 2393, 2563, 3467, 4480  
 —, —, structural studies  
 E: 412, 988  
 —, acting on the CH-CH group of donors (E.C. 1.3.-.-)  
 C: 5194  
 E: 5449  
 —, acting on the C-NH<sub>2</sub> group of donors (E.C. 1.4.-.-)  
 C: 3729, 3730, 5150, 5197  
 E: 470, 1650, 3466, 3473, 4034, 4528, 5010, 5452, 5453  
 —, —, structural studies  
 C: 2040  
 —, acting on the C-NH group of donors (E.C. 1.5.-.-)  
 C: 721  
 E: 1026  
 —, acting on reduced NAD or NADP as donor (E.C. 1.6.-.-)  
 C: 165, 166, 719, 1938, 4183  
 E: 2401, 3964, 4967, 5014  
 —, acting on the sulphur group of donors (E.C. 1.8.-.-)
- E: 2919, 4037, 4527  
 —, acting on hem groups as donors (E.C. 1.9.-.-)  
 E: 468  
 —, acting on diphenols and related donors (E.C. 1.10.-.-)  
 C: 4177, 5198  
 E: 3472, 4529  
 —, acting on H<sub>2</sub>O<sub>2</sub> as acceptor (E.C. 1.11.-.-)  
 C: 2078  
 E: 2974  
 —, acting on single donors with incorporation of oxygen (oxygenases) (E.C. 1.13.-.-)  
 C: 717, 4232  
 E: 3975, 4961  
 —, acting on paired donors with incorporation of oxygen into one donor (hydrolases) (E.C. 1.14.-.-)  
 C: 722, 1926, 2079, 4704, 5199  
 E: 1027, 3469, 4035, 4036
- Oximes  
 P: 4290, 4295
- Oxo compounds  
 C: 1239, 3663  
 G: 1138, 5076  
 —, aliphatic  
 C: 652, 3204  
 G: 53, 577, 578, 585, 586, 588, 1180, 3062, 3074, 3083, 3111, 4114, 4122, 4597, 4659, 5076  
 P: 3822  
 T: 2273, 2366, 3266, 3271, 4343, 4844, 4846, 5292, 5293, 5295  
 —, cyclic  
 C: 1899, 1959, 3136  
 G: 3570, 4112  
 P: 3209, 3211, 3821  
 T: 261, 847, 1474, 1558, 2815, 3821, 3873, 3874, 4341, 4845, 4847, 5325
- Oxygen, *see* Hydrogen, nitrogen, oxygen
- Oxygen-containing heterocycles, *see* Aflatoxins; Anthocyanins; Catechins; Chromones; Coumarins; Flavonoids and other  $\gamma$ -pyrone derivatives; Furans; Mycotoxins;  $\gamma$ -Pyrone derivatives
- P**
- Panthenic acid and coenzyme A  
 C: 4711  
 T: 317, 322, 2853
- Papaveraceae alkaloids (excluding opium alkaloids)  
 T: 3913
- Penicillins and cephalosporins  
 E: 517, 3519  
 P: 244, 2748, 4814

- T: 244, 324, 831, 1527, 2863, 3929, 4405, 4411, 4814, 4901, 5370
- Peptide (and amino acid) antibiotics  
E: 3519  
P: 5261, 5262  
T: 325, 2866, 4412, 5262, 5364, 5369
- Peptides  
C: 132, 671, 672, 1289–1292, 2013–2023, 2670, 2671, 3158, 3706, 3707, 4218, 4219, 4742, 5173–5176  
E: 979, 980, 1597–1619, 2425, 2936, 3423–3425, 3986–3988, 4489, 4490, 5418, 5419  
G: 4615  
P: 239, 817, 1426, 2221, 2736, 3830  
T: 298–301, 888–890, 2310–2313, 2831, 2832, 3908, 3909, 4382, 4871, 4872, 5334–5336
- , techniques  
C: 1919, 2013, 2014, 2671, 3156, 4171, 4214, 4215, 4218, 5176  
E: 1599, 1600, 1603, 5419  
P: 2221  
T: 299–301, 888–890, 2309, 2835
- , —, applications, non-biological  
C: 672, 2022, 2023, 5173  
E: 976, 979, 3428  
T: 1505, 2831, 2832, 3318, 3908
- , —, microorganisms and plants  
C: 1281, 2015  
P: 817  
T: 298
- , —, animal material  
C: 671, 1289–1291, 2670, 3158  
E: 1597, 1598, 3427, 3966  
P: 1426, 2736, 3226  
T: 2312, 2313, 3909
- See also* Insulin; Pituitary hormones; Thyroglobulins
- Peroxides  
G: 4122, 4659  
T: 1485, 2815, 3889, 4860
- Pesticides  
—, reviews  
C: 4153  
G: 4628  
T: 3350
- , general techniques  
C: 2162–2165, 3635, 3643, 3645, 4776  
E: 1708, 4542  
G: 73, 626, 1161, 3599, 4109, 4111, 5101, 5102  
T: 329, 331, 905, 928, 2868, 3353, 3354, 3357
- , carbamate  
C: 4256  
G: 1162, 1810, 5100  
P: 821, 3244  
T: 332, 915, 931, 933, 2337, 2340, 3955, 4902
- See also* Biphenyl and derivatives; Fungicides; Herbicides
- , chlorinated  
C: 204, 796, 2705, 4255, 5227  
G: 72, 587, 617–622, 624, 625, 627, 629, 630, 632, 1156–1161, 1807–1809, 1811, 1813, 2577, 2580, 2581, 3600, 4626, 5099, 5101  
P: 823, 4419  
T: 258, 330, 334, 908, 911, 917, 919, 920, 925, 926, 928–930, 932, 2868, 3346, 3349, 3355, 3357, 3865, 3938, 3940, 4419, 4424, 4905, 4908, 4909, 5372, 5373
- , phosphorus  
C: 205, 3194, 4254, 4256  
G: 623, 631, 1158, 2578, 3606, 4135, 5098  
P: 245, 822, 4318  
T: 333, 841, 904, 905, 909, 911, 912, 916, 918, 921, 922, 924, 928, 956, 1532, 2333, 2338, 2867, 3348, 3351, 3353, 3354, 3358, 3932, 3935, 4416, 4417, 4421, 4422, 4904, 4906, 4907, 5372, 5375
- , pyrethrins  
G: 2579  
T: 927, 934, 1533
- Pharmaceutical applications  
C: 797–803, 1373–1376, 2179–2183, 2711–2713, 3197, 3777–3800, 4266, 4267, 4779–4781  
E: 2493, 2994  
G: 74–76, 635–638, 1165–1170, 1819, 1820, 2588–2593, 3102, 3103, 3602–3609, 4137–4139, 4637–4651, 5105–5118  
P: 246–250, 1440, 1441, 2231, 2750, 3247, 3248, 3842–3847, 5264  
T: 340–354, 942–956, 1543–1556, 2348–2357, 2877–2883, 3361–3366, 3943–3955, 4432–4450, 4917–4935, 5378–5394
- , reviews and books  
C: 4662  
E: 4457  
G: 4638, 5105, 5106  
P: 246, 5264  
T: 246, 2353, 2758, 3860, 3947, 4436, 5264
- , synthetic drugs, general techniques  
C: 1373, 1375, 2179, 2712  
G: 2589, 3602, 4642, 4651, 5107  
P: 5269, 5382  
T: 344, 950, 1548, 2350, 2357, 3865, 3948, 3949, 4322, 5269, 5271, 5381, 5382
- , —, systematic analysis  
G: 3602  
PT: 5382
- , —, complex mixtures  
C: 2711  
T: 1556, 3362, 3947, 3951, 4444, 4921, 5379
- See also* Alkaloids; Excipients of drug form; Plant extracts; individual groups of drugs; and references 1165, 1543, 1545, 2750, 3366, 3943, 4933, 4935

## Pharmaceutical dyes

T: 3359, 3941

## Phenols

—, theory

T: 833, 1453, 2272, 4838

—, techniques

C: 664, 1236, 1237, 1279, 1898, 1899, 3134, 3204, 3642, 3663–3665, 3700, 4719

E: 5028

G: 51, 579, 581, 583, 4594, 4595, 5075

P: 1415, 2215, 3209, 4293

T: 274, 275, 336, 845, 851, 1415, 1453, 2270, 2271, 2761, 2790, 4293, 4341, 4363

—, applications

C: 3667, 5162

G: 582, 3057, 3067, 3575, 3576, 4658

P: 1419, 2723, 3248, 3817, 3849

T: 1419, 2723, 2770, 2773, 3267, 3849, 3870, 4839, 4902, 4937, 5284, 5285

## Phenothiazines

T: 952, 1547, 2878, 3924, 4447, 5280, 5382

## Phenylhydantoin derivatives

G: 1797

Phenylthiohydantoin derivatives, *see* Amino acids, derivatives

## Phospholipids

C: 659, 1259, 1264, 1265, 1267, 1358, 2658, 3140, 3143, 4729, 5233

E: 1590, 2410, 3985

P: 235, 815, 2730, 2799, 2800, 4299, 4360, 4805, 4854

T: 235, 284, 860, 863, 865, 2289, 2290, 2798–2800, 2808, 3256, 3284, 3885, 3887, 4353, 4360, 4366, 4854, 4856, 5305, 5310, 5312

## Phosphorus compounds

—, inorganic

C: 4281

G: 3108

P: 2236, 2756, 4816

T: 360, 363, 961, 2892, 3374

—, organic, techniques

C: 1359

G: 70, 1153, 1179, 1801, 1802, 4621

P: 4306

T: 2852, 4401

—, —, applications

C: 1358, 3188, 3189, 4729

E: 3417, 3518

G: 4130, 4620

P: 235, 243, 1420, 2274, 3240, 4813, 4821

T: 235, 243, 1420, 2274, 2326, 2327, 4402, 4403, 4813, 4897

## Pigments, natural

C: 1363, 2166, 2169, 3131, 3190

T: 1539, 2970, 4914

*See also* Anthocyanins; Chloroplast pigments; Flavonoids and other  $\gamma$ -pyrone derivatives

## Pituitary hormones

C: 667, 1246, 1292, 2016, 3647, 3706, 3707, 5148

E: 979, 1601, 1608, 2425, 2936, 4489, 5418

P: 3830

T: 4382, 5334, 5336

—, structural studies

C: 2332

E: 3424, 3992, 3993

T: 4871

## Plant extracts

—, techniques

G: 4642

T: 2884, 3258, 3860, 4938, 5396

—, applications

G: 2602, 2603

P: 2751, 2752, 3251, 3848, 3849, 4335

T: 355, 356, 1557, 2358–2360, 2752, 2826, 2885–2887, 3367, 3849, 3956, 3957, 4335, 4377, 4435, 4438, 4439, 4445, 4936, 4937, 5395

## Plasticizers and stabilizers

T: 338, 3360, 4429, 4431

## Plastics

C: 206–214, 1365–1372, 2170–2178, 2708–2710, 3196, 4259–4265, 4778, 5229

E: 1708, 2492, 4541, 4542

G: 633, 634, 1163, 1164, 1814–1818, 2582–2587, 3101, 3601, 4136, 4629–4636, 5103, 5104

P: 824, 2749

T: 336–339, 940, 941, 1540–1542, 2343–2347, 2874–2876, 3360, 3942, 4428–4431, 4915, 4916, 5377

—, reviews

C: 2605, 3623, 4683

G: 4629, 4634, 4636

T: 3360

—, techniques

C: 94, 207, 208, 210, 1365, 1368, 1370, 1371, 2172, 2173, 2177, 2178, 4263, 4264, 4778

E: 1708, 4542

G: 1817, 4630, 4632, 4633, 5103

T: 336, 337, 2343, 2876

*See also* individual types of polymers and resins and references

C: 206, 209, 212, 1367, 2171, 2708, 3196

G: 1816, 1834

## Platinum metals and gold

C: 216, 1402, 2187, 4283, 4786

P: 251, 252, 826, 1448, 1449, 5265

T: 958, 1462, 2252, 3373, 3375, 4941, 4943

## Polyamides and their intermediates

C: 208

G: 634

## Polyethylene and polyoxyethylene

C: 1372, 2176, 2709

- G: 3601  
T: 4915
- Polyethylene glycols  
G: 3109
- Polynucleotides, *see* Oligo- and polynucleotides
- Polysaccharides  
C: 4724, 5161  
E: 4980, 4986, 5411  
—, structure investigation  
C: 108, 109, 1260  
G: 55, 589, 590, 3068, 3577, 3578, 4115, 4600, 5078  
P: 2727, 3823, 3825, 4297, 5242, 5245
- Polyurethanes  
G: 3614  
T: 2876
- Poly(vinyl alcohol)  
C: 2710
- Porphyrins and metalloporphyrins  
C: 2154, 4162, 5223  
E: 5029  
P: 1432  
T: 313, 314, 1518, 2322, 3335, 3336, 4395
- Potassium, *see* Alkali metals
- Pregnane derivatives  
—, techniques  
G: 600  
T: 838, 1493, 3296, 4861, 4862  
—, applications, non-biological  
C: 3635, 3694  
T: 2295, 2820, 3945, 5316  
—, —, biological  
C: 1270, 1988, 3695, 4207, 4209, 4731  
G: 596, 1146  
P: 236, 1495, 2731, 3221, 4301, 4303  
T: 871, 1495, 1496, 2731, 2818, 3295, 3297, 3299, 3301, 3305, 3890, 3891, 4301, 4367, 4371, 4372, 5317
- Prostaglandins  
C: 656, 1251, 1980, 3689, 4726  
E: 3970  
G: 3596, 3612  
T: 280, 2792, 3278, 4349, 4351
- Protamines, histones and other nuclear proteins  
C: 145, 695-701, 1311, 1312, 1869, 2064, 2065, 2147, 3721, 3768, 4225-4227, 5185, 5186  
E: 440, 441, 510, 1000-1002, 1004, 1634, 1702, 2443, 2460, 2962-2964, 3384, 3451-3457, 3462, 4013-4015, 4060, 4469, 4470, 4514, 4515, 4952, 5004, 5005, 5027, 5438-5441  
—, structural studies  
C: 676, 677, 681, 2029, 2030, 3159  
E: 403, 981
- Proteins  
C: 137-162, 688-714, 1305-1319, 2048-2071, 2674-2681, 3162-3168, 3713-3727, 4222-4231, 4744-4752, 5181-5193  
E: 415-467, 990-1021, 1620-1644, 2427-2462, 2939-2973, 3430-3464, 4000-4033, 4497-4525, 4997-5009, 5426-5448  
P: 240  
T: 2836, 3320  
—, reviews  
C: 4155  
E: 366, 367, 2371, 2373, 2897, 3388, 4455, 4456  
—, techniques  
C: 1863, 1866, 1869, 1903, 2059, 2112, 2640, 2674, 3633, 3637, 4699, 4702, 5134, 5142, 5153, 5215  
E: 386, 415, 1569, 1570, 1620-1622, 1644, 2431, 2438, 2900, 2904-2906, 3383, 3386, 3387, 3392, 4482, 4510, 4959, 5445, 5469  
— of subcellular particles and viruses  
C: 153, 785, 1305, 1312, 3162, 3657, 4168, 4745  
E: 416-422, 512, 513, 993, 1003, 1700, 2898, 3427, 3431, 3437, 3438, 3464, 4002, 4033, 4059, 4062, 4503, 4515, 4955, 5445, 5482, 5483  
—, structural studies  
C: 2046, 3711  
E: 1602, 4492  
P: 239, 3227  
—, microbial and plant  
C: 138-140, 149, 150, 162, 688, 690, 706, 711, 1305, 1306, 1941, 2048, 3163, 3164, 3713, 3714, 3722, 3727, 4168, 4170, 4175, 4222, 4713, 4744, 4746, 5149, 5191  
E: 453, 462, 465, 990-992, 994, 1007, 1017, 1610, 1623-1626, 1697, 2427-2430, 2462, 2899, 2924, 2940-2950, 2998, 3430, 3973, 4000, 4001, 4020, 4022, 4464, 4479, 4497, 4498, 4500, 4521, 4524, 4955, 4971, 4974, 4997, 5402, 5404, 5419, 5426  
—, —, structural studies  
C: 3712  
E: 399, 413, 1616, 4524, 5419  
T: 2834  
— of blood and blood cells  
C: 141-143, 158, 691, 692, 1299, 1301, 1302, 1307-1309, 1906, 1933, 1935, 1940, 1942, 2049-2059, 2068, 2644, 2675-2677, 2680, 3119, 3165, 3166, 3641, 3654-3656, 3716-3718, 4176, 4191, 4223, 5151, 5181, 5190  
E: 367, 390, 418, 423-435, 458, 966, 972, 995, 996, 1614, 1615, 1627-1631, 1639, 2376, 2396, 2399, 2417, 2421, 2431-2439, 2445, 2448, 2461, 2910, 2913, 2914, 2916, 2951-2960, 2995, 2996, 3388, 3394, 3397, 3400, 3404, 3432-3445, 3968, 4003-4006, 4027,



- 4029, 4471, 4474, 4481, 4482, 4501-4510, 4513, 4519, 4964, 4976, 4978, 4998-5002, 5427-5432, 5447  
 T: 2836, 4383, 5342  
 ———, structural studies  
 C: 134, 674, 682, 3160, 3708, 3710, 4221  
 E: 406, 408, 409, 1587, 1604, 1605, 1611, 1612, 1614, 1615, 2910, 2938, 3429, 3988, 3989, 3994, 3999, 4472, 4493, 4494  
 ———, structural (except contractile elements)  
 C: 113, 144, 693, 694, 1309, 1310, 1852, 2060-2063, 2678, 5182-5184, 5192  
 E: 436, 438, 997, 999, 2375, 2442, 2452, 3447, 3449, 3450, 3968, 5006, 5433, 5435-5437, 5446  
 ———, ———, structural studies  
 C: 133, 678, 679, 683, 685-687, 1293, 2024, 2036, 2037, 2043, 2045, 3161  
 E: 400, 987, 989, 1617, 1618  
 ——— of brain, cerebrospinal fluid and eye  
 C: 152, 705, 2071, 3723, 4749, 5193  
 E: 451, 452, 466, 467, 1005, 1006, 1018, 1638, 1643, 1699, 2394, 2458, 2968, 2970, 3381, 4023, 4028, 4033, 4473, 4516, 4522, 5007, 5448  
 ———, structural studies  
 C: 2025, 5177  
 E: 404, 983, 1613, 3998, 4473, 5420  
 ——— of muscle and meat products  
 C: 155, 2062, 3719, 3720, 4224  
 E: 437, 439, 456, 457, 998, 1632, 1701, 2440, 2441, 2447, 2451, 2961, 2966, 3391, 3399, 3446, 3448, 3963, 4007, 4008, 4010-4012, 4467, 4512, 4513, 5003, 5434  
 ———, structural studies  
 C: 136, 680, 2028, 2047, 3161, 4220  
 E: 401, 410, 414, 3391, 3963, 4010, 4011, 4467  
 ——— of glands and zymogens  
 C: 710, 1316, 2636, 2637, 2673, 4229, 5217  
 E: 1016, 1642, 2390, 2453, 2969, 4516, 4517, 4987  
 ———, structural studies  
 C: 5178  
 E: 407  
 ——— of milk  
 C: 156, 1317, 2681, 4231  
 E: 455, 1013, 1641, 2457, 2971, 3385, 4001, 4520, 4521, 4523  
 ——— of eggs  
 C: 3725  
 E: 1637, 2451, 2939, 3385, 3388, 4031  
 ———, structural studies  
 C: 1297  
 ——— of urine  
 C: 1905  
 E: 2498, 2997, 4455, 4511, 4978, 5009  
 ——— from neoplastic tissues  
 C: 1319  
 E: 2962, 2964, 3459, 4025, 4518, 5008  
 ———, structural studies  
 C: 2042  
 Psychotropic drugs (analeptics, stimulants, anti-depressants)  
 C: 2182, 3774, 3800  
 G: 1167, 1819, 2589, 2591, 3102, 3103, 3603, 4137, 4648, 5116, 5118  
 P: 249, 1440, 5264, 5382  
 T: 340, 342, 345, 351, 354, 943, 950, 953, 1555, 1556, 3944, 3950, 3953, 4446, 4448, 5264, 5382, 5393  
 Purgatives  
 T: 1558  
 Purines, pyrimidines, nucleosides, nucleotides, reviews  
 C: 3622, 4155  
 P: 818  
 T: 818, 5343  
 ———, techniques  
 C: 200, 773, 777, 1327, 1328, 1330-1337, 2130, 2132-2134, 2136, 2697, 2698, 3763, 4244, 4761, 4762, 5219  
 E: 2481, 3508, 5474, 5475  
 P: 241, 1429, 2738, 4811  
 T: 241, 302-304, 1509, 1511, 1512, 2315, 2317-2319, 2369, 2764, 3912, 4386, 5344, 5346  
 ———, applications, non-biological  
 C: 774-776, 2135, 3764, 5218  
 E: 1674, 2989, 4054-4056, 5473  
 P: 1430, 2222, 2228, 2737, 2739, 2741, 2742, 3230, 3233, 3235, 3832-3836, 4810, 4812, 5256  
 T: 892, 1510, 2228, 3230, 3233, 3322, 3832, 3876, 4385, 4878, 4880-4882  
 ———, enzymatic  
 P: 1427, 2225-2227, 3229, 3232, 4313  
 T: 1427, 2225, 2838, 3229, 3232, 3321  
 ———, microorganisms  
 C: 195, 1329  
 E: 1672, 1673, 4525  
 P: 2223, 2224, 2738, 2740, 2743, 3231, 3234, 3325, 4309, 5345  
 T: 2223, 2316, 2837, 3234, 3323, 3325-3328, 3910, 4387, 4877, 5345, 5349  
 ———, plants  
 C: 2131  
 P: 1428, 1429, 3228  
 T: 4873, 4876  
 ———, animal material  
 C: 772, 1333, 2129, 2137, 3183, 4245, 4246, 4760  
 E: 2397, 5472  
 T: 305, 2841, 2893, 3324, 3912, 4874, 5347, 5348

- Pyrazines**  
 E: 5161
- Pyrethrins**  
 G: 2579  
 T: 927, 934, 1533
- Pyridine derivatives**  
 C: 1356, 4249, 5239  
 G: 610, 5093  
 P: 4290, 4314, 5258  
 T: 1519, 2330
- , carboxylic acids  
 C: 4249  
 G: 4617  
 P: 3238  
 T: 1545, 2759, 2795  
*See also* Nicotinic acid and derivatives
- Pyridoxine, see** Vitamins, B<sub>6</sub>
- Pyrimidines, see** Purines, pyrimidines, nucleosides, nucleotides
- $\gamma$ -Pyrone derivatives, see** Flavonoids and other  $\gamma$ -pyrone derivatives
- Pyrroles**  
 C: 1357  
 G: 4127  
 P: 4290  
 T: 2849
- Q**
- Quinazolines**  
 T: 900, 3923
- Quinoline (and isoquinoline) derivatives**  
 E: 5028  
 G: 573, 610, 1134, 2570  
 P: 4290  
 T: 2858, 3339, 4918, 5355
- Quinolizidine alkaloids**  
 T: 894, 4887
- Quinones**  
 P: 4801  
 T: 2776, 2778  
*See also* Anthraquinones; Ubiquinones (co-enzyme Q)
- R**
- Radiopharmaceuticals**  
 P: 2231, 2757  
 T: 4945
- Rare earths**  
 C: 1393, 1395, 1404, 2192, 2196, 2714, 3199, 3801, 3808, 4274, 4787, 4789, 5232  
 E: 301, 519  
 P: 251, 252, 1449, 2233  
 T: 958, 959, 4451, 4453, 4941, 4942
- Reserpine alkaloids**  
 T: 307, 834, 893, 2846, 3259, 3919, 4449
- Resins**  
 —, alkyd  
 C: 4260, 4261
- , aminoaldehyde  
 G: 5204  
 P: 2749  
 T: 940, 941, 2749
- , phenolic  
 C: 1366, 2174, 5229  
 G: 1164  
 P: 824  
 T: 336, 2345–2347, 2876
- , polybutadiene  
 C: 214
- , polyester  
 C: 4262  
 G: 2587, 4635  
 T: 1542, 2344, 2876
- , polyethylene  
 C: 1372, 2176, 3709  
 G: 3601
- , poly(vinyl chloride)  
 C: 4259  
 G: 1818  
*See also* Acrylic resins; Styrene polymers
- Retinol and derivatives, see** Vitamins, A
- Riboflavin and other flavins, see** Vitamins, B<sub>2</sub>
- RNA**  
 —, reviews  
 C: 4155, 4670  
 E: 1051, 2372
- , techniques  
 C: 199, 1338–1340, 1342, 2701, 3185, 3186, 3766, 4247, 5222  
 E: 1677, 1684, 2482, 3390, 3408, 4057, 4459, 4956, 5026
- , applications, non-biological  
 C: 780, 2140–2142  
 E: 503, 2990
- , —, microorganisms  
 C: 196, 197, 781, 1341, 1342, 1344, 2139, 2140, 2699, 4179, 4764, 5221  
 E: 505, 507, 1052, 1054–1056, 1058, 1675, 1680, 1686, 1688–1690, 2483, 2484, 3408, 3510, 3513–3515, 3517, 4538
- , —, plants  
 C: 198, 778, 2148, 3765  
 E: 508, 1676, 1679, 1681, 1685, 1687, 2485
- , —, animal material  
 C: 201, 779, 782, 783, 1343, 1927, 2143, 2700, 3184, 4763, 5220  
 E: 500, 502, 504, 509, 510, 1053, 1057, 1064, 1682, 1690, 3511, 3512, 3516, 4058, 4061, 5025, 5476–5478, 5480

- , structural studies  
 C: 786–789, 2150  
 E: 514, 1054, 1062, 1688, 1704, 1705, 3514, 3517, 5472, 5476  
*See also* DNA, complex mixtures of DNA, RNA and DNA–RNA hybrids

## Rubber

- G: 4636  
 T: 1540, 1541

Rubidium, *see* Alkali metals

## S

## Saponins and sapogenins

- T: 1498, 3259, 3307, 3308, 4374

## Sedatives, hypnotics and narcotics

- G: 1169, 5110, 5112  
 T: 1552, 1554, 2883, 4929, 4934, 5388  
*See also* Barbiturates

## Selenium

—, inorganic, *see* Cations, inorganic, analytical group IIb

—, organic

- G: 1155, 1804, 2575

## Silicon organic compounds

- G: 71, 612, 3098, 3099, 3594, 5096, 5097

Silver, *see* Cations, inorganic, analytical groups I and IIa

Sodium, *see* Alkali metals

Sphingolipids, *see* Glycolipids

Stabilizers, *see* Plasticizers and stabilizers

## Starch components

- C: 1973, 4696, 4722  
 P: 814, 1418  
 T: 1475

## Steroid alkaloids

- E: 2489

## Steroids

- C: 122, 661, 1269–1272, 1984–1993, 2659–2662, 3145–3147, 3690–3695, 4206–4209, 4730–4733  
 G: 60, 594–596, 1141–1146, 1792, 2566, 3080–3082, 4123, 4124, 4607, 5084, 5085  
 P: 236, 2731, 2732, 3220, 3221, 3828, 4301–4303  
 T: 289–291, 868–871, 1488–1497, 2292–2295, 2816–2824, 3293–3305, 3890–3892, 4362–4372, 4861–4863, 5314–5322

—, reviews

- P: 3221

—, general techniques

- C: 122, 1984, 1985, 1991, 1993, 2660, 2661, 3695, 4207, 4730, 4732, 4733  
 G: 596, 600, 1141, 1172, 1181, 1792, 1831, 2566, 4123, 4124  
 T: 870, 2268, 2295, 2820, 3303, 3865, 4861

*See also* Androstane derivatives; Oestrogens; Pregnane derivatives

## Sterols

—, reviews

- G: 3082

- T: 3294

—, techniques

- C: 1986, 1987, 1990

- G: 1142, 1143, 1145, 1146, 3080

- T: 264, 289, 290, 320, 862, 1483, 1488, 2822, 3259, 3862, 4323, 4369, 4861

—, applications, non-biological

- C: 3693

- G: 58, 3081, 3084

- T: 868, 2819, 4365, 4368, 4863, 5321

—, —, biological

- C: 1269, 3692, 4206

- G: 1143, 4607

- T: 290, 2809, 2816, 2821, 3376, 3377, 5314

Stimulants, *see* Psychotropic drugs

Strontium, *see* Alkaline earths

## Strychnine alkaloids

- C: 4768

- T: 307, 2042

## Styrene polymers

- C: 209, 211, 214, 1894, 1917, 2175, 3627, 3631, 4265

- E: 2492

- G: 2582, 2583, 2585, 2586, 4633

- T: 339, 2876

## Subcellular particles

- C: 118, 119, 2147, 2148, 2210, 3205, 3206, 3814, 3815

- E: 521, 522, 1690, 1718–1724, 3002–3004, 4063, 4064, 4549, 4551

## Sulphates

—, inorganic, *see* Sulphur compounds, inorganic

—, organic

- P: 243

- T: 243, 2323

Sulphatides, *see* Glycolipids

## Sulphides

- E: 4539

- G: 69, 1134, 1800, 3515

- P: 5258

- T: 4895

## Sulphonamides

- C: 2713, 3197, 3645

- P: 3843, 4290, 4304

- T: 343, 1544, 1548, 2877, 3258, 4434

## Sulphonates

- E: 2490

- T: 1520, 4399

## Sulphones

- G: 2571, 3096

- T: 3340, 5359

- Sulphonic acids  
 G: 3097, 4619  
 P: 3239  
 T: 3926, 4398, 4917, 4949, 5358
- Sulphoxides  
 T: 5359
- Sulphur compounds  
 —, inorganic  
 C: 3640  
 G: 1830, 2599, 3615, 3616  
 P: 1450  
 T: 1562, 2362, 2891, 5397  
 —, organic  
 C: 202  
 E: 4539  
 G: 1155, 1799, 1830, 3093–3095, 3615, 5095, 5100  
 P: 230  
 T: 230, 900, 1521, 4400  
*See also* Sulphides; Sulphonamides; Sulphonates; Sulphones; Sulphonic acids; Sulphoxides; Thioamides; Thiophosphates; Thiourea  
 —, —, containing heterocyclic sulphur  
 G: 611, 2572, 3095, 3615, 4136  
 P: 4290, 4896  
 T: 315, 3339, 3952, 4896
- Surfactants and detergents  
 C: 804, 2203, 2204, 3201, 4281, 4796  
 G: 45, 2585, 2601, 3109  
 P: 254  
 T: 254, 2323, 2370, 4946, 4949
- Sweeteners, artificial  
 T: 945, 947
- Symphaticomimetics  
 C: 4266  
 G: 2592  
 T: 347, 1548, 4446, 5378
- T**
- Tannins  
 T: 845
- Tantalum, *see* Cations, inorganic, analytical group III
- Technetium, *see* Cations, inorganic, analytical group IIb
- Tellurium, *see* Cations, inorganic, analytical group IIb
- Telomers  
 T: 4346
- Terpenes  
 C: 662, 663, 1273–1275, 1994, 3149–3151, 3696–3699, 4735, 4736, 5164  
 G: 597–600, 1147, 1793, 2567, 3083, 3084, 3586, 4125, 4608–4610, 5085  
 P: 2733  
 T: 872–875, 2296, 2297, 2826, 2827, 3309, 3896–3898, 4375–4377, 4865, 5323–5325  
 —, review  
 G: 4125  
 —, techniques  
 G: 50, 60, 597, 1833, 5085  
 T: 267, 845, 875, 2296, 3862, 4323, 4375  
 —, applications  
 C: 662, 663, 1273, 3191, 3696, 3698, 3699, 4735, 5164  
 G: 1147, 1793, 3084, 3565, 3586, 4608, 5069  
 P: 2229, 2733, 3848, 4410  
 T: 874, 2297, 2327, 2822, 3896–3898, 4328, 4410, 5323–5325  
 —, resins  
 G: 2584, 4652  
 T: 3309
- Tetracyclines  
 C: 5226  
 E: 1066, 3519  
 G: 3598  
 P: 3838  
 T: 327, 841, 1527, 4405, 4408
- Textile dyes  
 T: 363, 1536, 2871, 4913
- Thallium, *see* Cations, inorganic, analytical groups I and IIa
- Thiamine, *see* Vitamins, B<sub>1</sub>
- Thioamides  
 T: 3925, 4396, 4397
- Thiophosphates  
 C: 3188
- Thiourea  
 P: 2745, 4896, 5259  
 T: 297, 3925, 4396, 4896
- Thorium, *see* Cations, inorganic, analytical group III
- Thyroglobulins  
 C: 132, 160, 2020, 5175  
 —, structural studies  
 E: 3425
- Tin, *see* Cations, inorganic, analytical group IIb
- Titanium, *see* Cations, inorganic, analytical group III
- Tocopherols, *see* Vitamins E
- Toxicological applications  
 C: 1375, 1376, 2183  
 E: 2502, 2994  
 G: 74–76, 635–637, 1169, 1170, 1819, 1820, 2590–2593, 3102, 3103, 3604–3609, 4137–4139, 4643–4651, 5110–5118  
 P: 247–250, 1441, 2750, 3248, 3845–3847  
 T: 348–354, 950–956, 1552–1556, 2356, 2357, 3364–3366, 3952–3955, 4447–4450, 4929–4935, 5385–5394  
 —, reviews  
 C: 2619

- G: 3605  
 P: 246  
 T: 246, 3350, 3954, 4443  
 —, general techniques  
 C: 1376  
 G: 3103, 3573, 3604, 3609, 4644-4646, 4649, 4650  
 P: 249  
 T: 348, 943, 950, 951, 2357, 4432, 4447, 4448, 5386, 5389-5393
- Transferases**  
 —, transferring one-atom groups (E.C. 2.1.--)  
 C: 768, 1320  
 E: 1033, 4039  
 —, transferring acyl- and aminoacyl- groups (E.C. 2.3.--)  
 C: 167, 2087, 2089, 4234  
 E: 2976, 4045, 4537  
 —, transferring glycosyl residues (E.C. 2.4.--)  
 C: 727, 730, 1321, 2085, 2091, 2094, 2629, 2646, 3735, 4188  
 E: 478, 1030, 1032, 1035, 4477, 5018  
 —, —, structural studies  
 C: 673  
 —, transferring alkyl or related groups (E.C. 2.5.--)  
 E: 4965  
 —, transferring nitrogenous groups (E.C. 2.6.--)  
 C: 736, 767, 2081, 2092, 3738  
 E: 474, 1031, 1034, 1050  
 —, transferring phosphorus-containing groups (E.C. 2.7.--)  
 C: 168-172, 725, 726, 728, 729, 731-735, 766, 771, 1322, 1934, 2082-2084, 2086, 2088, 2090, 2093, 2095, 2112, 2686-2690, 2692, 3130, 3171, 3173, 3639, 3641, 3732, 3734, 3736, 3737, 3739, 3741, 3761, 4182, 4233, 4235, 4753, 5202-5204, 5216  
 E: 473, 475-477, 479, 1033, 1036, 1037, 1653, 1654, 1670, 2466-2470, 2917, 2925, 2977, 2986, 3475-3486, 3976, 3995, 3996, 4038, 4040-4044, 4969, 5016, 5017, 5455, 5456, 5467  
 P: 240  
 —, —, structural studies  
 C: 675, 1294, 1298, 1304, 2027, 5180  
 E: 1609, 1619, 3990, 3996, 5425  
 —, transferring sulphur-containing groups (E.C. 2.8.--)  
 C: 192
- Triazoles**  
 G: 1152, 1829
- Tropine alkaloids**  
 G: 1168, 5091  
 P: 828, 5382
- T: 307, 309, 896, 897, 2845, 3259, 3917, 3945, 4437, 5350, 5352, 5382
- Tryptophan metabolites**  
 C: 4737  
 G: 1824, 1826  
 T: 292
- Tuberculostatics**  
 G: 5109
- Tungsten, see Cations, inorganic, analytical group IIb**
- U**
- Ubiquinones (coenzyme Q)**  
 T: 2777
- Uranium, see Actinides and uranium**
- Urea and derivatives**  
 G: 3086, 4613, 5089
- Urocanic acid**  
 G: 1821
- V**
- Vanadium, see Cations, inorganic, analytical group IIb**
- Vasodilators**  
 T: 5394
- Veratrum alkaloids**  
 T: 307
- Vinca alkaloids**  
 T: 895, 3920
- Vitamins**  
 —, reviews  
 C: 2607  
 G: 4661  
 PT: 3241  
 —, techniques for fat-soluble vitamins  
 C: 2160, 2161  
 T: 2855  
 —, techniques for water-soluble vitamins  
 C: 2160, 4774  
 T: 3865, 5283  
 —, A group  
 C: 2156-2158, 2160, 2161, 2166, 3190  
 G: 3100  
 T: 319, 320, 901, 2855, 4824, 5360  
 —, B<sub>1</sub>  
 C: 2160, 4774  
 T: 2350, 3865  
 —, B<sub>2</sub> and other flavins  
 C: 2129, 2159, 2160, 4774  
 E: 1706  
 T: 2858, 3865, 5360  
 —, B<sub>6</sub> group  
 C: 1873

T: 2328, 2330, 3865, 3927  
 —, B<sub>12</sub> group  
 C: 4773  
 E: 5030  
 P: 819  
 T: 2329, 3865, 5361  
 —, C group  
 C: 4774  
 P: 2747  
 T: 2747, 3341, 3865, 4898, 5360  
 —, D group  
 C: 3775, 4772  
 G: 1805, 3597  
 T: 320, 902, 1522, 1523, 2855, 3928, 4824, 5362  
 —, E group  
 C: 203  
 G: 3595  
 T: 262, 319, 2821, 2855–2857, 4413  
 —, K group  
 T: 2776  
 See also Biotin group; Folic acid and other pteridine derivatives; Nicotinic acid and derivatives; Pantothenic acid and coenzyme Q

**W**

Water  
 G: 78, 2559, 2598, 2599, 3107, 3111, 3617, 4142, 4657, 4661, 5127  
 — pollution

G: 5, 60, 308, 642, 1159, 1162, 1812, 2559, 2568, 2575, 2599, 3592, 4132, 4136, 4146, 4148–4150, 4593, 4660, 5099, 5100, 5126, 5130  
 P: 3817  
 T: 3352, 4378, 4417, 4419, 4423, 4425, 4905, 4906, 4908, 5280

**Waxes**

C: 3141, 3151  
 G: 60, 2557, 3077, 3565, 3566, 3610, 4120  
 T: 3379

**X****Xanthine alkaloids**

C: 4267  
 P: 250, 5382  
 T: 306–308, 1509, 1556, 2350, 3332, 3362, 5279, 5351, 5382

**Xanthenes**

T: 4338, 4842

**X-ray contrast media**

E: 2994

**Z**

Zinc, *see* Cations, inorganic, analytical group III  
 Zirconium, *see* Cations, inorganic, analytical group III

## PUBLICATION SCHEDULE FOR 1974

*Journal of Chromatography* (incorporating *Chromatographic Reviews*)

MONTH	J	F	M	A	M	J	J	A	S	O	N	D
JOURNAL	88/1 88/2	89/1 89/2	90/1	90/2 91	92/1 92/2	93/1 93/2	94 95/1	95/2 96/1	96/2	97/1 97/2	99 100/1 100/2	
REVIEWS*			98/1						98/2	98/3		

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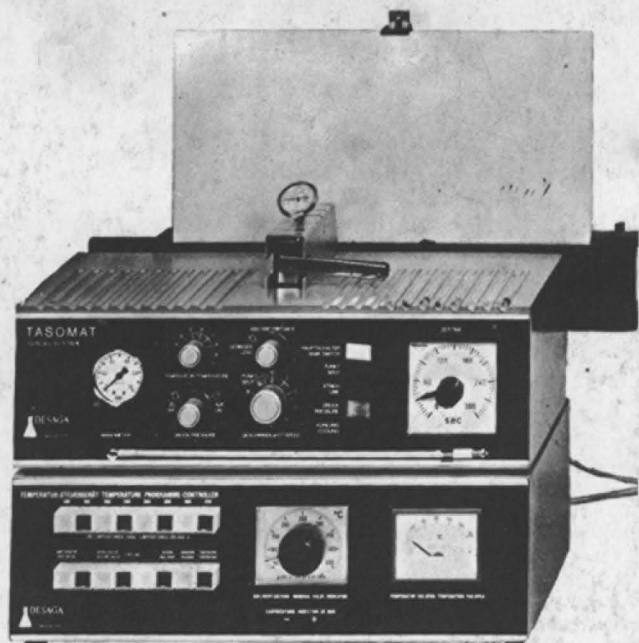
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