

AUTHOR INDEX

- Abdo, W. M. See Mustafa, A. 4725
- Abramovitch, R. A. and Struble, D. L. The stereochemistry of the Michael addition. 357
- Abramovitch, R. A. and Struble, D. L. Some *cis*- and *trans*-decahydroisoquinoline derivatives and their NMR spectra. An interesting stable twist-boat fused cyclohexane. 705
- Adam, G. See Höhne, E. 4875
- Adam, G. See Tomko, J. 4865, 6839
- Agatha, G. See Heublein, G. 3799
- Aizenshtat, Z. See Bergmann, E. D. 6449
- Akabori, S. See Sato, T. 5557
- Akahori, A. See Yasuda, F. 6535
- Akhtar, M. H., McDaniel, R. S., Feser, M. and Oehlschlager, A. C. NMR study of hindered rotation in 1-aryl-3,3-dimethyltriazenes. 3899
- Aladyina, N. T. See Elyakov, G. B. 5483
- Albada, M. P. van. See de Valois, P. J. 1835
- Alemagna, A., Bacchetti, T. and Beltrame, P. 1,3,4-Thiadiazoles—III. Nucleophilic reactivity of 2-aryl-5-chloro-derivatives. 3209
- Alimenti, G., Grifantini, M., Gualtieri, F. and Stein, M. L. Reactions of α -hydroxyimino derivatives of carbonyl compounds with bases—I. Derivatives of α,β -*t*-dihydroxyimino-butyric acid. 395
- Allinger, N. L., Gilardeau, C. and Chow, L. W. Organic quantum chemistry—XVI. A theoretical study of the structures and electronic spectra of cyclobutadiene and dimethylene-cyclobutene. 2401
- Allinger, N. L. and Maul, J. J. Conformational analysis—LXI. Absence of transannular hydrogen-bonding in cyclooctanone. 4257
- Allinger, N. L. and Szkrybalo, W. Conformational analysis—LXII. Solvolysis and amination studies of the 5-*t*-butylcyclooctyl system. 4699
- Allingham, Y., Cookson, R. C. and Crabb, T. A. The influence of an adjacent sulphur atom on geminal coupling constants in methylene groups. 1989
- Allingham, Y., Cookson, R. C., Crabb, T. A. and Vary, S. The NMR spectra and conformations of some tetrahydro-1,3-oxazines. 4625
- Allred, A. L. and Bush, L. W. Anion radicals of some fluorobiphenyls. 6883
- Altman, J., Babad, E., Pucknat, J., Reshef, N. and Ginsburg, D. Propellanes—III. Synthesis of carbocyclic and heterocyclic compounds 975
- Altona, C., Geise, H. J. and Romers, C. Conformation of non-aromatic ring compounds—XXV. Geometry and conformation of ring D in some steroids from X-ray structure determinations. 13
- Altona, C. and van der Veeck, A. P. M. XLIV. NMR spectra and dipole moments of some 2-substituted 1,3-dioxolanes. 4377
- Altona, C. See Buys, H. R. 3019
- Amano, Y. See Heathcock, C. H. 4917
- Amako, Y. See Yamaguchi, H. 267
- Anderson, C. B. and Sepp, D. T. Conformation and the anomeric effects in 2-oxy-substituted tetrahydropyrans. 1707
- Anderson, C. B. See Sepp, D. T. 6873
- Anderson, J. E. and Lehn, J. M. NMR studies of rate processes and conformations—IX. Conformational rate processes in bridged bicyclic tetrahydropyridazine and piperidazinesystems. 123
- Anderson, J. E. and Lehn, J. M. Conformational rate processes in di-, tetra- and hexa-hydro-pyridazine systems 137
- Anderson, L. A. P., de Kock, W. T., Nel, W., Pachler, K. G. R. and Tonder, G. van. Gafrinin, a sesquiterpenoid lactone from *Geigeria africana* Gries—I. Revised structure. 1687
- Andrejević, V. See Mihailović, M. Lj. 4947
- Andrews, L. J. See Kochi, J. K. 3503
- Andrianova, G. M. See Yanovskaya, L. A. 4677
- Appleton, R. A. and McCormick, A. Quantitative analysis of mixtures of diterpene hydrocarbons by gas chromatography—mass spectrometry. 633
- Ardenne, M. von. See Huneck, S. 2707
- Arndt, R. R. See Smalberger, T. M. 6417
- Arnold, G. See Schiele, C. 2293, 5017, 5023, 5037
- Arsenault, G. P. Fungal metabolites—III. Quinones from *Fusarium solani* D₂ purple and structure of (+)-solaniol. 4745
- Asada, Y. See Naya, K. 5871
- Asahi, Y. See Ochiai, M. 5861
- Austin, P. W., Seshadri, T. R., Sood, M. S. and Vishwapaul. Components of *Seseli sibiricum*. Constitution and synthesis of sibiricin, a new coumarin. 3247
- Autrey, R. L. and Tahk, F. C. Oxindoles—II. The products of some Michael additions to isatylideneacetic esters and cinnamyl derivatives. 3337
- Avila, N. V. See Berkoz, B. 2851
- Awruch, J. See Tamari, M. G. 2611, 3981
- Axenrod, T. See Milne, G. W. A. Photochemistry of nitrosamines. Mechanism studies. 5775
- Azumi, H. See Yamaguchi, H. 267
- Baba, H. and Takemura, T. Spectrophotometric investigations of the tautomeric reaction between anthrone and anthranol—I. The keto-enol equilibrium. 4779

- Baba, H. See Takemura, T. 5311
- Babad, E. See Altman, J. 975
- Bacaloglu, R. See Ostrogovich, G. 2701
- Bacchetti, T. See Alemagna, A. 3209
- Bacha, J. D. and Kochi, J. K. Alkenes from acids by oxidative decarboxylation. 2215
- Baddeley, G. V. and Shao, W. L. Stereochemical studies in the trisnorlupane series—II. The stereoselectivity of reduction of a cyclopentanone by complex metal hydrides. 6513
- Baggaley, K. H., Erdtman, H. and Norin, T. Some new cedrane derivatives from *Juniperus foetidissima*. Configuration of cedrollic acid. 3399
- Baggaley, K. H., Evans, W. H., Graham, S. H., Jonas, D. A. and Jones, D. H. Studies on cyclooctanes—I. 1,5-Bismethylenecyclooctane. 3445
- Bahl, C. P., Parthasarathy, M. R. and Seshadri, T. R. Constitution of pterocarpol. 6231
- Baker, K. M. and Bartley, J. P. The equilibria and NMR spectra of hydroxymethylene ketones. 1651
- Baker, K. M. and Davis, B. R. Long range coupling and solvent shifts in the NMR spectra of bornane derivatives. 1663
- Baker, K. M. and Davis, B. R. Transformations of champhor. 1655
- Balaban, A. T. Reaction of pyrylium salts with nucleophiles—VII. Conversion of 2,4,6-triphenylpyrylium into isoxazole or pyrazole derivatives by hydroxylamine or phenylhydrazine. 5059
- Balaban, A. T. and Harary, F. Chemical graphs—V. Enumeration and proposed nomenclature of benzenoid *cata*-condensed polycyclic aromatic hydrocarbons. 2505
- Balaban, A. T. See Barabás, A. 1133
- Balaban, A. T. See Trestianu, A. 2499
- Balashova, E. G. See Preobrazhenskaya, M. N. 6131
- Balabramanian, M. and Padma, N. Catalytic reduction of some 4-piperidones. 5395
- Balabramanian, M. and D'Souza, A. Studies on the reduction of some substituted cyclohexanones. 5399
- Baldwin, J. E. See Hong, Soon-Yung. 3787
- Bally, I. See Trestianu, A. 2499
- Bamburg, J. R., Riggs, N. V. and Strong, F. M. The structures of toxins from two strains of *Fusarium tricinctum*. 3329
- Banerjee, A. K. See Ghatak, U. R. 1577
- Banerjee, S. K., Chakravarti, D., Chakravarti, R. N. and Mitra, M. N. Reactions in high boiling solvents—I. Effect of Raney nickel on steroids. 6459
- Bank, S., Closson, W. D. and Hodgins, L. T. Correlation of the infrared stretching frequencies of ketones, olefins and oximes. 381
- Banks, D. and Wiseman, P. Some reactions of benzothiazole-2-sulphenamides. 6791
- Barabás, A., Isfan, E., Roman, M., Paraschiv, M., Romas, E. and Balaban, A. T. Heterocyclic organoboron compounds—VII. Chelated bis-(1,3-diketonato)boronium salts with acetylacetone, benzoylacetone and dibenzoylmethane. 1133
- Barabás, A. See Trestianu, A. 2499
- Barber, M. See Humeck, S. 2707
- Barlow, C. B., Bishop, E. O., Carey, P. R., Guthrie, R. D., Jensen, M. A. and Lewis, J. E. The proton resonance spectrum of methyl 4,6-O-benzylidene-3-deoxy-3-phenylazo- α -D-glucoside 2-acetate. Partial virtual coupling in a four-spin system. 4517
- Barlow, L. R. The free radical decomposition of benzoyl nitrate and its pressure dependence. 4913
- Barneis, Z. J., Carr, J. D., Warnet, R. J. and Wheeler, D. M. S. Base-catalysed rearrangement of the bainehydroquinones. 5053
- Barni, E. See Gasco, A. 5569
- Barnsley, E. A. Correlation of the configuration of some sulphoxides with (+)-s-methyl-L-cysteine s-oxide. 3747
- Barr, T. H. and Watts, W. E. Bridged ferrocenes—I. The synthesis and conformation of [5]ferrocenophanes. 3219
- Barr, T. H. and Watts, W. E. II. Conformational properties of [m]ferrocenophanes. 6111
- de Barros Corrêa, D. See Gottlieb, O. R. 1601
- Bartle, K. D. See Cotterill, W. D. 1981
- Bartley, J. P. See Baker, K. M. 1651
- Barua, A. K., Dutta, S. P. and Das, B. C. Triterpenoids—XXIX. The structure of barringtonol B—A new triterpenoid saponin from *Barringtonia acutangula* Gaertn. 1113
- Barua, A. K. See Chakrabarti, P. 1107
- Bauer, S. H. See Dorko, E. A. 2425
- Baumann, H., Franklin, N. C., Möhrle, H. and Scheidegger, U. Magnetic anisotropy and the interpretation of the NMR spectra of lactams—I. N-substituted piperidones. 589
- Baumgarth, M. See Tschesche, R. 5169
- Bayer, E., Jung, G. and Hagenmaier, H. Untersuchungen zur Totalsynthese des Ferredoxins—I. Synthese der Aminosäuresequenz von *C. Pasteurianum* Ferredoxin. 4853
- Becher, D. See Hollands, R. 1633
- Becher, D. See Huneck, S. 2707
- Becker, H. G. O. und Böttcher, H. Relais-synthesen von Heterocyclen—II. Neue synthesen von 3-Amino- und 3-Hydrazino-Pyridazinen. 2687
- Becker, H. G. O., Hüber, H., Timple, H.-J. und Wahren, M. Kinetik und Mechanismus der Bildung von Arylcyaniden aus 4-Arylidena-amino-1,2,4-triazolen. 1031
- Beckett, A. H. and Brookes, L. G. The absolute configuration of (+)-1-(3-trifluoromethylphenyl)-2-ethylamino propane [(+)-fenfluramine]. 1283

- Beckett, A. H., Daisley, R. W. and Walker, J. Substituted oxindoles—I. The preparation and spectral characteristics of some simple oxindole derivatives. 6093
- Beckett, A. H., Spickett, R. G. W. and Wright, S. H. B. Bicyclic pyrimidine derivatives with a bridgehead nitrogen atom—III. Absorption spectra of s-triazolopyrimidines. 2839
- Beckett, A. H. See Trager, W. F. 523, 2681
- Beecham, A. F. and Ham, N. S. Proton magnetic resonance spectra of some peptides of L-leucine and glycine. 2773
- Beg, M. Arshad A. and Samiuzzaman. Spectroscopic studies of organophosphorus compounds—II. Infrared and ultraviolet spectra of phosphonium compounds and their structures. 191
- Bekker, P. I., Stephen, A. M. and Woolard, G. R. Application of gas-liquid chromatography to the structural investigation of polysaccharides—IV. The gums of *Acacia podalyriaefolia* A. Cunn and *Acacia elata* A. Cunn. 6967
- Bellamy, A. J. and Whitham, G. H. Rearrangements of 3-methylcar-4-en-2-one. 247
- Bellino, A. See Piozzi, F. 4073
- Beltrame, P., Beltrame, P. L. and Simonetta, M. Molecular orbital calculations for nucleophilic aromatic substitution reaction in aza-compounds. 3043
- Beltrame, P. See Alemagna, A. 3209
- Beltrame, P. L. See Beltrame, P. 3043
- Bemis, A. See Kochi, J. K. 5099
- Benard, M. See Julg, A. 5575
- Benz, W. und Dürr, H. Photochemie Kleiner ringe—VII. Analogie und Diskrepanz von Massenspektrometrie und Photochemie bei bicyclischen Cyclopropan-Derivaten. 6503
- Ben-Zvi, Z. See Mechoulam, R. 5615
- Berényi, E. See Farkas, L. 4213
- Bergmann, E. D., Aizenshtat, Z. and Shahak, I. Halogenations in the diphenylamine series. 6449
- Bergmann, E. D., Rabinovitz, M. and Bromberg, A. Some derivatives of 5H-dibenz[b,f]azepine. 1289
- Bergmann, E. D. See Feuer, H. 1187
- Berkoz, B., Cuellar, L., Grezemkovsky, R., Avila, N. V., Edwards, J. A. and Cross, A. D. Steroids—CCCXV. Dehydrogenation studies with steroidal lactones—The synthesis of 4-oxa- $\Delta^{1,5(10)}$ -3-ketones. 2851
- Berner, E. and Kolsaker, P. On the reaction of maleic and citraconic anhydrides with acetylacetone and with ethyl acetoacetate. 1199
- Berner-Fenz, L. See Zbiral, E. 1363
- Bertelli, D. J. and Crabtree, J. H. Naturally occurring fulvene hydrocarbons. 2079
- Bertelli, D. J., Crews, P. O. and Griffin, S. The synthesis and study of pseudo-aromatic compounds—VIII. The synthesis of 2-cycloheptatrienyliideneindanone. 1945
- Bertelli, D. J. and Rossiter, W. J. The reaction of benzotropenium ion, 1,2-benzocycloheptatriene-7-methyl ether and 3,4-benzocycloheptatriene-7-methyl ethyl with methyl and 2-propyl Grignard reagents. 609
- Berti, G., Bottari, F., Lippi, G. and Macchia, B. Stereochemistry of the ring opening of some stilbazole oxides. 1959
- Berti, G., Macchia, B. and Macchia, F. Preparation and stereochemical characterization of the diastereoisomeric 1-phenyl-4-*t*-butylcyclohexene oxides an 1-phenyl-4-*t*-butylcyclohexane-1,2-diols. 1755
- Bestmann, H. J. und Tömösközi, I. Reaktionen mit Alkyliidenphosphoranen—XVIII. Kinetische Racematspaltungen durch Umsetzung von Alkyliidenphosphoranen mit optisch aktiven Säurechloriden. 3299
- Bhacca, N. S. and Sharma, R. K. Mucronatinine, a new alkaloid from *Crotalaria mucronata* desv-I. 6319
- Bhatnagar, I. and George, M. V. Oxidation with metal oxides—II. Oxidation of chalcone phenylhydrazones pyrazolines, *o*-aminobenzylidene anils and *o*-hydroxy benzylidene anils with manganese dioxide. 1293
- Bhattacharyya, J. See Pakrashi, S. C. 1
- Bianchetti, G. See Pocar, D. 6741
- Bianchetti, G. See Stradi, R. 6735
- Biemann, K. See Thomas, D. W. 4223
- Bienvenue-Goetz, E. et Dubois, J.-E. Reactive des composés éthyliques: Reaction de bromation—XXII. Evaluation quantitative d'effets de solvant pour les composés β -heteropolaires (methanol, eau). 6777
- Bietti, G. See Pala, G. 619
- Bigler, A. J. See Ramirez, F. 5041
- Bilk, L. See Gross, H. 6935
- Binsch, G. and Heilbronner, E. Double bond fixation in non-alternant π -electron systems. 1215
- Bisarya, S. C. and Dev Sukh. Studies in sesquiterpenes—XXXIII. Himachalol. 3861
- Bisarya, S. C. and Dev Sukh.—XXXIV. Structure of allohimachalol. 3869
- Bishop, E. O. See Barlow, C. B. 4517
- Biswas, K. M. and Jackson, A. H. Diborane as a reducing agent—II. The reduction of indole and pyrrole carbonyl derivatives. 1145
- Black, A. L. and Summers, L. A. Chemical constitution and activity of bipyridylum herbicides—III. 6453
- Bladon, Peter. See Brown, N. M. D. 6577
- Blickenstaff, R. T. and Tao, I. Y. C. The synthesis and lithium ammonia reduction of 7-methoxychroman. 2495
- Bloch, R., Le Perchec, P., Rouessac, F. et Comia, J.-M. Thermolyse et photolyse de cétones non saturées—IX. Composés carbonylés α -non saturés: Extension de la thermocyclisation des cétones éthyléniques aux cétones acétyliques et aux aldéhydes éthyléniques. La thermocyclisation par transfert d'hydrogene intramoléculaire. 5971

- Bochowic, B. and Frankowski, A.** γ -Lactones and γ -thiolactones—I. A novel route to 6-oxabicyclo[3.2.1]octan-7-one and 6-thiabicyclo[3.2.1]octan-7-one derivatives. 6653
- Boelhouwer, C.** See Korver, O. 1025
- Boelhouwer, C.** See Kwa, T. L. 5711
- de Boer, Th. J.** See Mackor, A. 1623
- de Boer, Th. J.** See Nibbering, N. M. M. 1415, 1427, 1435
- de Boer, Th. J.** See Roest, B. C. 2155
- Bögri, T.** See Götz, M. 2631
- Bonafede, J. D.** See Novelli, A. 2481
- Bonner, O. D. and Woolsey, G. B.** A study of some charge-transfer complexes involving N-methylacetamide and other amides. 3625
- Booth, H., Little, J. H. and Feeney, J.** Proton magnetic resonance studies of cyclic compounds—VI. *Cis* and *trans*-2,6-dimethylpiperidine and *cis*(2,4), *cis*(4,6), *cis*(2,6) 2,4,6-trimethylpiperidine. 279
- Borčić, S.** See Servis, K. L. 1247
- Bordignon, E.** See Signor, A. 6995
- Borsdorf, R., Flamme, W., Kumpfert, H. und Mühlstädt, M.** Konformationsuntersuchungen am *cis*-2,7-Dichlorcycloheptanon. 65
- Borsdorf, R.** See Zechumke, A. 4403
- Bose, A. K.** See Manhas, M. S. 1237
- Bosscher, J. K. and Cerfontain, H.** Aromatic sulphonation with sulphur trioxide in trichlorofluoromethane as a solvent. 6543
- Bottari, F.** See Berti, G. 1959
- Böttcher, H.** See Becker, Heinz G. O. 2687
- Bowie, J. H., Donaghue, P. F., Rodda, H. J. and Simons, B. K.** Electron impact studies—XXIX. The $C_{13}H_9$ skeletal-rearrangement fragment in the mass spectra of heterocyclic systems containing diphenyl substituents. A deuterium labelling study. 3965
- Bowie, J. H.** See Larsen, B. Sogaard. 5193
- Bowie, J. H.** See Lawesson, S.-O. 1875
- Bowie, J. H.** See Nolde, C. 1051
- Bowie, J. H.** See Wilson, R. G. 1407
- Braband, J.** See Mann, G. 3607
- Brauman, J. I. and Laurie, V. W.** Characteristic vibrational frequencies of cyclic ketones. 2595
- Bretschneider, J. and Wallenfels, S. K.** Über stabile ein-, zwei- und drei-wertige Hydrazyle der Cyanokohlenstoffreihe. 1063
- Breuer, E. and Sarei, S.** Homoallylic rearrangement of cyclopropylcarbinyl borates. A stereospecific synthesis of *trans*-4-aryl-3-butenols. 6339
- Brink, M.** Zur Kenntnis der NMR-Spektren einiger Monosubstituierten Bernsteinsäuren und Verwandten Verbindungen. 7005
- Brock, H. T.** See Menger, F. M. 3453
- Brocklehurst, K. and Griffiths, J. R.** Kinetics and mechanism of the reaction of 4(5)-formylimidazole with hydroxylamine. 2407
- Bromberg, A.** See Bergmann, E. D. 1289
- Brookes, L. G.** See Beckett, A. H. 1283
- Brossi, A., Bruderer, H., Rachlin, A. I. and Teitel, S.** Synthesis in the emetine series—XIV. A new synthesis of 2,3,11-trisubstituted berbines. 4277
- Brown, D. W., Dyke, S. F., Lugton, W. G. D. and Davis, A.** The reaction of 1- β -arylethyl-2-pyridones and of 2- β -arylethylisocarbostyrils with phosphorus oxychloride. 2517
- Brown, D. W.** See Dyke, S. F. 1455, 6703
- Brown, D. W.** See Sainsbury, M. 427, 6695
- Brown, H. L., Buchanan, G. L., Curran, A. C. W. and McLay, G. W.** The thermal-Michael reaction—I. Orientation features. 4565
- Brown, N. M. D. and Bladon, Peter.** Synthesis and spectroscopy of 1,2,5-selenadiazolo-[3,4-b]-pyridine and 1,2,5-selenadiazolo-[3,4-c]-pyridine. 6577
- Brown, N. M. D. and Nonhebel, D. C.** NMR spectra of intramolecularly hydrogen-bonded compounds—II. Schiff bases of β -diketones and *o*-hydroxycarbonyl compounds. 5655
- Brown, P. and Cookson, R. C.** Dipolar addition versus oxygen transfer in the reaction of tetracyanoethylene oxide with unsaturated hydrocarbons. 2551
- Brown, P. and Djerassi, C.** Mass spectrometry in structural and stereochemical problems—CXLVIII. Electron impact induced fragmentations of some cyclic sulfites and carbonates. 2949
- Brown, R. F. C., Cookson, R. C. and Hudec, J.** Demonstration of lack of inversion of the migrating allyl group in photochemical rearrangement of a hexa-1,5-diene derivative. 3955
- Brownlee, R. G.** See Reece, C. A. 4249
- Brück, D.** See Rieker, A. 103
- Bruderer, H.** See Brossi, A. 4277
- Brune, H. A.** Protonenresonanz-spektroskopische Untersuchungen zur Kenntnis der Bindungseigenschaften des Siliciums in Organ-Silicium-Verbindungen. 79
- Brune, H. A. and Wolff, H. P.** 1-Äthyl-2,3-dimethyl-cyclobutadien-eisentricarbonyl. 4861
- Bruns, K.** Diterpene—V. Über die C_{13} -Konfiguration der Diterpene aus *Araucaria imbricata*, Pavon (Araucariaceae). 3417
- Bruns, K. and Sandermann, W.**—IV. Über iene Epimerisierung der 6-Hydroxygruppe am Trisnor-Labdangerüst im Verlauf des Sauer katalysierten Ringschluss zu Tricyclischen Äthern. 1357
- Buchanan, G. L.** See Brown, H. L. 4565
- Buchardt, O., Duffield, A. M. and Shapiro, R. H.** Mass spectra of quinoline and isoquinoline N-oxides. 3139
- Büchi, G. and Wüest, H.** Total synthesis of racemic dehydrofuropelargones. 2049
- Buck, H. M.** See van der Lugt, W. Th. A. M. 4941
- Budzikiewicz, H., Compennolle, F., Van Cauwenberghe, K., Schulze, K. Wolf, H. und Quinkert, G.** Zum Massenspektroskopischen Fragmentierungsverhalten von Steroidlactamen. 6797

- Buncel, E., Dolenko, A., Csizmadia, I. G., Pinceock, J. and Yates, K. A molecular orbital theory approach to the Wallach rearrangement. 6671
- Burgstahler, A. W. and Sticker, R. E. Studies in the pinane series. The synthesis of (\pm) "orthodene". 2435
- Burkhardt, H. J. and Forgacs, J. O-Methylsterigmatocystin, a new metabolite from *Aspergillus flavus*, Link ex Fries. 717
- Burkhardt, H. J. Lundin, R. E. and McFadden, W. H. Mycotoxins produced by *Fusarium nivale* (Fries) cesati isolated from tall fescue (*Festuca arundinacea* Schreb.) Synthesis of 4-acetamido-4-hydroxy-2-butenic acid- γ -lactone. 1225
- Burlingame, A. L. and Smith, D. H. Automated heteroatomic plotting as an aid to the presentation and interpretation of high resolution mass spectral data. 5749
- Burlingame, A. L. See Schnoes, H. K. 2825
- Burn, D., Butcher, F. K., Cole, A., Coombs, R. A., Davies, M. T., Green, M. J. and Petrow, V. Modified steroid hormones—XLIX 7-Substituted 6-oxo-3 α ,5 α -cyclosteroids—I. The preparation of 7-methyl-6-oxo-3 α ,5 α -cyclosteroids 4033
- Burnelle, L., Lahiri, J. and Detrano, R. On the photodimerization of anthracene and its mesosubstituted derivatives. 3517
- Bush, L. W. See Allred, A. L. 6883
- Butcher, F. K., Coombs, R. A. and Davies, M. T. Modified steroid hormones—L. 7-substituted 6-oxo-3 α ,5 α -cyclosteroids—2. The spectroscopic properties and structure of 6-oxo-3 α ,5 α -cyclosteroids and their 7-methyl derivatives. 4041
- Butcher, F. K. See Burn, D. 4033
- Buyle, R. et Viehe, H. G. Les α -chloro- ϵ -amines—I. Acylation des ynamines. 3987
- Buyle, R. et Viehe, H. G. Les α -chloro- ϵ -amines—II. Synthèse des α -chloro- β -chlorocarbonyl ϵ -amines par réaction du phosgène sur les amides N,N-disubstituées. 4217
- Buyts, H. R., Altona, C. and Havinga, E. The conformation of non-aromatic ring compounds—XLIII. Carbon-halogen stretching frequencies and conformation of 3-halogeno- and *trans*-3,4-dihalogenotetrahydrofurans. 3019
- Buyts, H. R. and Havinga, E.—XLVII. The conformation of *trans*-1,2-dihalogenoindans. 4967
- Buzas, A. See Szantay, Cs. 4713
- Calussen, U., von Spulak, F. and Korte, F. Haschisch—XIV. Zur Kenntnis der Inhaltsstoffe des Haschisch. 1021
- Cambie, R. C. and Gallagher, R. T. Chemistry of the Podocarpaceae—XVI. Heterolytic fragmentation of 6 α -bromo-7-oxototarol. 4631
- Cardillo, G., Cricchio, R. and Merlini, L. Synthesis of D,L-cannabichromene, franklinone and other natural chromenes. 4825
- Cardillo, G., Merlini, L. and Mondelli, R. Natural chromenes—III. Colouring matters of Wars: The structure of flemingins A, B, C and homoflemingin. 497
- Carey, P. R. See Barlow, C. B. 4517
- Carr, J. D. See Barnets, Z. J. 5053
- Caspi, E. See Snatzke, G. 2899
- Caspi, E. See Varma, K. R. 6365
- Castle, M. D., Mooney, E. F. and Plevy, R. G. The NMR spectra of 4,5,6,7-tetrafluorobenzob[b]thiophen and some of its derivatives. 5457
- Casu, B., Reggiani, M., Gallo, G. G. and Vigevani, A. Conformation of *o*-methylated amylose and cyclodextrins. 803
- Casy, A. F., Parulkar, A. and Pocha, P. Studies of the elimination of 1,2-diaryl-4-dimethylaminobutan-2-ols—III. The configuration of some isomeric 1,2-diaryl-4-dimethylamino-3-methylbut-1-enes. 3031
- van Cauwenberghe, K. See Budzikiewicz, H. 6797
- Cava, M. P. and Lee, W. S. Pleiadene systems—VI. Further studies in the methylpleiadene series. 837
- Cavé, A. see Goutarel, R. 7013
- Čeković, Ž. See Mihailović, M. Lj. 6959 4947
- Celotti, J. C. See Ransbotyn, G. 3647
- Cencioni, R. Franchini, P. F. and Orienti, M. Dipole moments of 5-substituted isoxazoles—I. Dipole moments and tautomerism of isoxazolin-5-ones. 151
- Cerfontain, H. See Bosscher, J. K. 6543
- Cerioti, G. See Piozzi, F. 1119
- Chadwick, L. See Chambers, R. D. 877
- Chakrabarti, P., Mukherjee, D. K., Barua, A. K. and Das, B. C. The structure and stereochemistry of spergulagenic acid. 1107
- Chakrabarty, T., Connolly, J. D., McCrindle, R., Overton, K. H. and Schwarz, J. C. P. Tetratriterpenoids—VI. [Bicyclononanolides IV] Swietenolide—the functional groups. 1503
- Chakraborty, A. K. See Sengupta, P. 1205
- Chakravarti, D. See Banerjee, S. K. 6459
- Chakravarti, R. N. See Banerjee, S. K. 6549
- Chakravarty, J. See Ghatak, U. B. 1577
- Chambers, R. D., Cunningham, J. A. and Pyke, D. A. Polyfluoroaryl organometallic compounds—VI. Some reactions of pentafluorophenyl- and ortho-bromotetrafluorophenyl organometallic compounds. 2783
- Chambers, R. D., Cunningham, J. A. and Spring, D. J.—VII. Synthesis and nucleophilic substitution in octafluorodibenzothiophen and in octafluorothianthren. 3997
- Chambers, R. D., Iddon, B., Musgrave, W. K. R. and Chadwick, L.—X. 2,3,5,6-tetrafluoro-4-methylpyridine and related compounds. 877

- Chambers, R. D., Lomas, D. and Musgrave, W. K. R.—XIII. Preparation and nucleophilic substitution reactions of polyfluoro-2,2'-bipyridyls. 5633
- Chang, C. T. See Gutsche, C. D. 859
- Chang, C. W. J. See Singh, I. 2969, 6053
- Cheburokov, Yu. A., Mukhamadaliyev, N. and Knunyants, I. L. Bis(trifluoromethyl)ketene—VIII. Reaction with unsaturated compounds. 1341
- Cheshire, M. V., Cranwell, P. A. and Haworth, R. D. Humic acid—III. 5155
- Chetty, G. L. See Mehta, G. 3775
- Chirudoglu, G. See Ransbotyn, G. 3647
- Chivers, P. J., Crabb, T. A. and Williams, R. O. Proton magnetic resonance studies of compounds with bridgehead nitrogen atoms—V. Configurational studies on derivatives of 2,2'-dipiperidyl. 4411
- Chivers, P. J., Crabb, T. A. and Williams, R. O. VIII. Configurational and conformational studies with methyl substituted perhydrodipyrido [1.2-c.2'.1'-e] imidazoles. 6625
- Chizhov, O. S. See Kochetkov, N. K. 5587
- Chow, L. W. See Allinger, N. L. 2401
- Cignitti, M. See Paoloni, L. 485
- Clar, E. and Mullen, A. The non-existence of a threefold aromatic conjugation in linear benzologues of triphenylene (starphenes). 6719
- Clar, E., Sanigök, Ü. and Zander, M. NMR Studies of perylene and coronene derivatives. 2817
- Clark, D. T. A self consistent field molecular orbital treatment of the reactivity of thiophene and the isomeric thienothiophenes. 2567
- Clark, D. T. A self consistent field molecular orbital investigation of the importance of d orbital participation in the ground state of thiophene. 2663
- Clark, D. T. A self consistent field molecular orbital treatment of furan including all valence electrons. 3285
- Clark, D. T. A self consistent field molecular orbital treatment of pyrrole and pyrrole anion including all valence electrons. 4689
- Clark, S. C. and Johnson, B. L. Diadducts from methyl diazoacetate and norbornadiene. 5067
- Clark-Lewis, J. W. See Verbit, L. 5519, 5839
- Claussen, U., Mummenhoff, P. und Korte, F. Haschisch—XVIII. Zur Tetrahydrocannabinol-synthese aus Olivetol und Pulegon. 2897
- Claussen, U. See von Spulak, F. 5379.
- Closson, W. D. See Bank, S. 381
- Coates, P., Goh, A. K., Jefferies, P. R., Knox, J. R., and Payne, T. G. The diterpenes of *Goodenia ramelii* F. Muell. 795
- Coe, P. L. and Jukes, A. E. Aromatic polyfluoro compounds—XLII. Nitration of some polyfluoro-aryl compounds containing functional groups. 5913
- Coffen, D. L. See Shapiro, R. H. 2809
- Cole, A. See Burn, D. 4033
- Collin, P. J., Shannon, J. S. Silberman, H., Sternhell, S. and Sugowdz, G. Photochemistry of some aromatic Schiff's bases and NMR spectra of some benzo[f]quinolines. 3069
- Compernelle, F. See Budzikiewicz, H. 6797
- Conia, J.-M. See Bloch, R. 5971
- Connolly, J. D., McCrindle, R. and Overton, K. H. Tetranortriterpenoids—IV. [Bicyclonanolides II]. The constitution and stereochemistry of mexicanolide. 1489
- Connolly, J. D., McCrindle, R. and Overton, K. H. V. [Bicyclonanolides III]. The PMR spectrum of mexicanolide. 1497
- Connolly, J. D., McCrindle, R., Overton, K. H. and Warnock, W. D. C. VII. [Bicyclonanolides—V]. The constitution and stereochemistry of swietenolide. 1507
- Connolly, J. D. See Chakrabarty, T. 1503
- Conreur, C. See Goutarel, R. 7013
- Consonni, P. See Pifferi, G. 4923
- Cook, M. J. and Forbes, E. J. [4.5-c] Furotropone. A new heterocyclic system. 4501
- Cooks, R. G., Ward, R. S., Williams, D. H., Shaw, M. A. and Tebby, J. C. Studies in mass spectrometry—XXII. The decomposition of some stable alkylidene triphenylphosphoranes upon electron impact. Reactions occurring with and without deuterium/hydrogen scrambling in labelled phenyl rings. 3289
- Cooks, R. G. See Larsen, B. Sogaard. 5193
- Cooks, R. G. See Lawesson, S.-O. 1875
- Cooks, R. G. See Nolde, C. 1051
- Cookson, R. C. and Crabb, T. A. Geminal coupling constants in methylene groups α to nitrogen and oxygen atoms in 5- and 6-membered ring compounds. 2385
- Cookson, R. C., Crabb, T. A. and Vary, S. The NMR spectra of some 5,5-disubstituted-1,3-dioxans. 4559
- Cookson, R. C., Dance, J. and Godfrey, M. Diels-Alder adducts of dicyanoacetylene and their electronic spectra. 1529
- Cookson, R. C., Hudec, J., Szabo, A. and Usher, G. E. The optical and photochemical properties of methylisopulegone. 4353
- Cookson, R. C. See Allingham, Y. 1989, 4625
- Cookson, R. C. See Brown, P. 2551
- Cookson, R. C. See Brown, R. F. C. 3955
- Coombs, R. A. See Burn, D. 4033
- Coombs, R. A. See Butcher, F. K. 4041
- Cooper, A. and Hodgkin, D. C. The crystal structure and absolute configuration of fusidic acid methyl ester 3-p-bromobenzoate. 909
- Cotterill, W. D., Livingstone, R., Bartle, K. D. and Jones, D. W. The structure of isolapachenole. 1981
- Coulter, J. M., Lewis, J. W. and Lynch, P. P. Hydrogenolysis of enamines—I. Reaction with aluminium hydride. 4489

- Coxon, J. M., Dansted, E., Hartshorn, M. P. and Richards, K. E. The synthesis of some 2,10-epoxypinanes. 1193
- Crabb, T. A. and Newton, R. F. Proton magnetic resonance studies of compounds with bridgehead nitrogen atoms—III. Configurational and conformational studies with derivatives of 8-oxa-1-azabicyclo[4.3.0]nonane. 1997
- Crabb, T. A. and Newton, R. F.—IV. Configurational and conformational studies with methyl substituted 8-thia-1-azabicyclo [4.3.0] nonanes. 2485
- Crabb, T. A. and Newton, R. F.—VI. Configurational and conformational studies with derivatives of octahydropyrido [1,2-c]1,3 oxazines. 4423
- Crabb, T. A. and Newton, R. F.—VII. Configurational and conformational studies with substituted 1,8-diazabicyclo [4.3.0] nonanes. 6327
- Crabb, T. A. See Allingham, Y. 1989, 4625
- Crabb, T. A. See Chivers, P. J. 4411, 6625
- Crabb, T. A. See Cookson, R. C. 2385, 4559
- Crabbé, P., Halpern, B. and Santos, E. Cotton effect of dimedone condensation compounds with optically active amines. 4299
- Crabbé, P., Halpern, B. and Santos, E. Cotton effect of dimedone and dihydroresorcinol condensation compounds of amino acids and peptides. 4315
- Crabtree, J. H. See Bertelli, D. J. 2079
- Craig, J. Cymerman. See Duffield, A. M. 4267
- Cramer, F. See Rittersdorf, W. 43
- Cranwell, P. A. See Cheshire, M. V. 5155
- Crescenzi, E. See Pala, G. 619
- Crews, P. O. See Bertelli, D. J. 1945
- Cricchio, R. See Cardillo, G. 4825
- Cross, A. D. See Berkoz, B. 2851
- Cross, B. E., Galt, R. H. B. and Norton, K. 231
- Csizmadia, I. G. See Buncel, E. 6671
- Cuellar, L. See Berkoz, B. 2851
- Cunningham, J. A. See Chambers, R. D. 2783, 3997
- Curran, A. C. W. See Brown, H. L. 4565
- Curtin, D. Y. and Quirk, R. P. The stereospecific arylation of olefins. Addition of vinyl lithium reagents to benzyne. 5791
- Dabas, K. S. See Mukherji, S. M. 4373
- Daffertshofer, G. See Korte, F. 5601
- Dahl, K. See Just, G. 5251
- Dähne, S. See Nikolajewski, H. E. 6685
- Daisley, R. W. See Beckett, A. H. 6093
- Dalla Croce, P. See Pocar, D. 6741
- Dalla Croce, P. See Stradi, R. 6735
- Damodaran, N. P. and Dev, S. Studies in sesquiterpenes—XXXVII. Sesquiterpenoids from the essential oil of *Zingiber zerumbet* Smith. 4113
- Damodaran, N. P. and Dev, S.—XXXVIII. Structure of humulene epoxide-1 and humulene epoxide-11. 4123
- Damodaran, N. P. and Dev, S.—XXXIX. Structure of humulenols. 4133
- Damodaran, N. P. See Joshi, V. S. 5817
- Dance, J. See Cookson, R. C. 1529
- Danieli, N. See Lavie, D. 3011
- Danieli, N. See Permutti, V. 5425
- Danishefsky, S. and Feldman, M. Cyclodehydration of keto pyridines-tosyl acid cleavage of 2-pyridyl ethyl ethers. 4083
- Danstead, E. See Coxon, J. M. 1193
- Das, B. C. See Barua, A. K. 1113
- Das, B. C. See Chakrabarti, P. 1107
- Dashevsky, V. G. See Kitaigorodsky, A. I. 5917
- Davidson, M. See Delman, J. 3939
- Davies, M. T., See Burn, D. 4033
- Davies, M. T. See Butcher, F. K. 4041
- Davis, A. See Brown, D. W. 2517
- Davis, B. R. and Watkins, W. B. Chemistry of the podocarpaceae—XV. Elaboration of podocarpic acid. 2165
- Davis, B. R. See Baker, K. M. 1655, 1663
- Davis, R. E. and Murthy, A. S. N. Diborane as a model system for carbonium ions. 4595
- Davis, R. E. and Ohno, A. The question of transannular bonding in cyclobutane, boretane and the cyclobutyl cation. 2063
- DeAngelis, G. G. Empirical calculations. Pertaining to the optically active aromatic chromophore in rigid systems. 5469
- Delderfield, J. See Skujins, S. 4805
- Delman, J., Duplan, J. C. et Davidson, M. Étude conformationnelle de métadiioxannes par résonance magnétique nucléaire. 3939
- DeMember, J. R. See Filipescu, N. 5181
- Desimoni, G. and Minoli, G. Polynuclear isoxazole types—IV. The synthesis of isoxazolo [4.5-b] pyrazines. 4907
- Detrano, R. See Burnelle, L. 3517
- Dev, S. See Bisarya, S. C. 3861, 3869
- Dev, S. See Damodaran, N. P. 4113, 4123, 4133
- Dev, S. See Joseph, T. C. 3809, 3841, 3853
- Dev., S. See Joshi, V. S. 5817
- Dev, S. See Kulkarni, S. B. 545, 553, 561
- Dev, S. See Mehta, G. 3775, 4105
- Dev, S. See Nayak, U. R. 4099
- Dev, S. See Pandey, R. W. 3829
- Dev, S. See Pansare, V. S. 3767
- Diaz, E. See Romo, J. 5625
- Dietz, F. und Scholz, M. Chemie Angeregter Zustände—IV. Die Photocyclisierung der drei isomeren distyrylbenzole. 6845
- DiModica, G. See Gasco, A. 5569
- Dimroth, K. See Perst, H. 5385
- Dixon, W. T. Transference of charge in organic reactions—I. Models for simple abstraction reactions. 5509
- Djakouré, L. See Goutarel, R. 7013
- Djerassi, C., Lightner, D. A., Schooley, D. A., Takeda, K., Komeno, T. and Kuriyama, K. Optical rotatory dispersion studies—CXII. An octant rule for the thiocyanate chromophore and its application to rotameric equilibrium studies in the steroid series. 6913
- Djerassi, C. See Brown, P. 2949

- Djerassi, C. See Huneck, S. 2707
 Djerassi, C. See Sengupta, P. 1205
 Dobbs, H. E. Radiotracer study of the reaction of dichloro-carbene with dimethylindole. 491
 Doering, W. von E., Gilbert, J. C. and Leermakers, P. Symmetrical distribution of energy in initially unsymmetrically excited products. Reaction of dideuteriodiazomethane with allene, methylenecyclopropane and vinylcyclopropane. 6863
 Dolby, L. J. and Gribble, G. W. New reactions of 3-vinylindoles. 6377
 Dolenko, A. See Buncel, E. 6671
 Doleschall, G. and Lempert, K. 4*H*-3,1-Benzoxazinone(4)—VII. Über Wasserabspaltungsreaktion aus *N*-(2-ureidobenzoyl)-antranilsäuren. 5547
 Doleschall, G. und Lempert, K.—VIII. Über die Reaktion von *N*-methylantranilsäure mit Bromcyan. 5529
 Donaghue, P. F. See Bowie, J. H. 3965
 Donnelly, B. J., Donnelly, D. M. X. and O'Sullivan, A. M. *Dalbergia* species—VI. The occurrence of melanin in the genus *Dalbergia*. 2617
 Donnelly, D. M. X. See Donnelly, B. J. 2617
 Dopke, W., Flentje, H. und Jeffis, P. W. Zur Struktur und Stereochemie des Amurolicins und Amuronins zweier neuer alkaloiden vom Dihydroprotoporphin-Typ-LX. 2297
 Döpke, W., Flentje, H. und Jeffis, P. W. The structures of amurine and nudaurine. 4459
 Döpke, W. See Schnoes, H. K. 2825
 Döppert, K. See Fahr, E. 1011
 Dorchai, R. Ó., Rubalcava, H. E., Thomson, J. B. and Zeeh, B. Triterpenoids—IV. The cyclamigenins A¹, A², C and D. 5649
 Dorchai, R. Ó. and Thomson, J. B. Triterpenoids—III. The structure of cyclamigenin B. 1377
 Dorko, E. A., Hencher, J. L. and Bauer, S. H. The molecular structure of trimethylenecyclopropane. 2425
 Dorn, H. und Otto, A. Stabile Azomethinimine und 1-substituierte 3-hydroxy-pyrazole durch Dehydrierung 1-substituierter pyrrolidone(3). 6809
 Dougherty, R. C. Mass spectra of heteroaromatic boron compounds. Interpretation of β -cleavage reactions using the PMO method. 6755
 Douraghi-Zadeh, K. See Eglinton, G. 5929
 Douw, M. A. See Speckamp, W. N. 5893
 Dreyer, D. L. Citrus bitter principles—VIII. Application of ORD and CD to stereochemical problems. 3273
 D'Souza, A. See Balasubramanian, M. 5399
 Dubois, J.-E. See Bienvenüe-Goetz, E. 6777
 Duffield, A. M., Craig, J. Cymerman and Kray, L. R. Electron impact promoted fragmentation of some phenothiazine derivatives. 4267
 Duffield, A. M. See Buchardt, O. 3139
 Duffield, A. M. See Sengupta, P. 1205
 Duffin, H. C. and Tucker, R. B. Some coordination complexes of chromic chloride with aromatic aldehydes and their relevance to the Etard reaction. 6999
 Duffin, H. C. and Tucker, R. B. Kinetics of oxidation of substituted toluenes with chromyl chloride—II. Effect of temperature. 389
 Dukler, S. See Tedeschi, E. 4573
 Duncan, W. G. See Reece, C. A. 4249
 Dunkelblum, E. See Klein, J. 5701
 Dunn, A. R., McMillan, I. and Stoodley, R. J. The conformational behaviour of some dihydro-1,4-thiazines. 2985
 Duplan, J. C. See Delmau, J. 3939
 Durham, L. J. See Sengupta, P. 1205
 Dürer, H. See Benz, W. 6503
 Dutta, S. P. See Barua, A. K. 1113
 Dues, F., Jakobsen, P. and Lawesson, S.-O. Studies on enethiols—III. Syntheses and spectroscopic investigations of β -thioketothiolesters. 5323
 Dwuma-Badu, D. See Trager, W. F. 523
 Dyke, S. F. and Brown, D. W. The chemistry of cryptopine—I. The epicryptopines. 1455
 Dyke, S. F., Sainsbury, M. and Moon, B. J. 1,2-Dihydroisoquinolines—VII. New syntheses of avicine and nitidine derivatives. 1467
 Dyke, S. F., Sainsbury, M., Brown, D. W., Palfryman, M. N. and Tiley, E. P. IX. Acylation II. 6703
 Dyke, S. F. See Brown, D. W. 2517
 Dyke, S. F. See Sainsbury, M. 427, 6695
 Dzizenko, A. K. See Elyakov, G. B. 5483
 Ebel, H. F. Polarität der Bindungen zwischen Kohlenstoff und Alkalimetallen—II. Ein Beitrag zur Theorie der Stabilität von Carbanionen. 459
 Eckhardt, G. See Snatzke, G. 4543
 Edwards, J. A. See Berkoz, B. 2851
 Eglinton, G., Hummelmann, D. H. and Douraghi-Zadeh, K. Gas chromatographic-mass spectrometric studies of long chain hydroxy acids—II. The hydroxy acids and fatty acids of a 5000-year-old lacustrine sediment. 5929
 Eigendorf, G. See Kutney, J. P. 845
 Einwiller, A. See Wünsche, Ch. 3407
 Elad, D. See Sinnreich, J. 4509
 Elyakov, G. B., Strigina, L. I., Shapkina, E. V., Aladyina, N. T., Kornilova, S. A. and Dzizenko, A. K. The probable structure of the true aglycones of Ginseng glycosides. 5483
 Engberts, J. B. F. N. and Zwamenburg, B. Mechanisms of reactions of α -diazosulfones—III Further study of the acid-catalysed hydrolysis of aryl- and alkyl-sulfonyldiazomethanes. 1737
 Entwistle, N. and Pratt, A. D. 23 ξ -hydroxylanosterol. A new triterpene fungal metabolite of the Basidiomycete *Scleroderma aurantium* Pers. 3949
 Erdtman, H. See Baggaley, K. H. 3399
 Es, van T. See Bestadt, B. 1973

- Evanega, G. R. See Whipple, E. B. 1299
Evans, W. H. See Baggaley, K. H. 3445
- Fahr, E., Doppert, K., Koninsdorfer, K. und Scheckenbach, F. Die Umsetzung von Diazoverbindungen mit Azoverbindungen—VII. Die Struktur der bei der Umsetzung von Diazoverbindungen mit Azodibenzoyl oder Azodiacyl entstehenden Produkte. 1011
Fang Li Hsu, Y. See Williamson, K. L. 6007
Fărcasiu, D. and Gărd, E. A proton transfer from trimethylpyrylium cation to pyridine. 4741
Farid, S. A new flavone from bergamott oil. Weak coupling in NMR between ring and methoxyl protons. 2121
Farkas, E. See Lunn, W. H. W. 6773
Farkas, L., Berényi, E. and Pallos, L. Aurones and aurone glucosides—XI. Synthesis of hispidol and its glucosides. 4213
Farmer, R. F. and Hamer, J. Conformational isomerization in hexahydro-S-triazines and hexahydropyrimidines. 829
Farrugia, M. T. and Kirk, G. The absolute configuration of (-)-corbasil. 3499
Feeney, J. See Booth, H. 279
Fehlhaber, H.-W. See von Spulak, F. 5379
Feldman, M. See Danishefsky, S. 4083
Ferguson, L. N. See Smitherman, H. C. 923
Fernando, Q. See Schulman, S. 1777
Feser, M. See Akhtar, M. H. 3899
Feuer, H., Hirschfeld, A. and Bergmann, E. D. The Michael reaction of enamines with nitroolefins. 1187
Feuer, J., Herndon, W. C. and Hall, L. H. A perturbational MO method applied to Diels-Alder reactions with unsymmetrical dienes and dienophiles. Prediction of the major product. 2575
Figeys, H. P. See Figeys, M. 1097
Figeys, H. P. See Flammang, R. 1171
Figeys, M. et Figeys, H. P. Application de la methode L.C.A.O. A l'etude du mecanisme de l'hydromerisation de l'acrylonitrile et de quelques monomeres apparentes. 1097
Filipescu, N. and DeMember, J. R. Spirocyclopropane formation and rearrangement in the thermal and photochemical decomposition of 1-pyrazolines from 9-diazofluorene and bicyclic [2.2.1] olefins. 5181
Finch, N. and Schlittler, E. The synthesis of methyl 5-hydroxy-2-methyl-3-oxo-1-cyclopentene-1-carboxylate. The methyl ester of a microtoxinin degradation product. 5421
Firi, J. See Kresze, G. 1043
Fischer, N. H., Mabry, T. J. and Kagan, H. B. The structure of tamalupin-A. A new germacranolide from *Ambrosia confertiflora* DC (Compositae). 4091
Fischer, P. H. H. See Kuhn, R. 1843
Fischer, R. H. See Köbrich, G. 4343
Fishman, J. and Liang, J. S. NMR spectra of estrogen catechols. 2199
Flammang, R., Figeys, H. P. et Martin, R. N. Propriétés physico-chimiques de dérivés aromatiques pontés [2,2], [2,2,2] et [2,2,2,2] metacyclophanes. 1171
Flamme, W. See Borsdorf, R. 65
Flautt, T. J. See Kropp, P. J. 1385
Fleischer, R., Hafner, K., Hochmann, P., Wildgruber, J. and Zahradnik, R. Elektronenstruktur von Nichtalterierenden Kohlenwasserstoffen—deren Analoga und Derivaten—XVII. Kata-Kondensierte tricyclische Systeme. 5943
Flemming, Chr. See Zschunke, A. 6469
Flentje, H. See Döpke, W. 2297, 4459
Fleš, D., Majhofer, B. and Kovač, M. Steric control of asymmetric induction in Meerwein-Ponndorf reduction of α -phthalimido- β -substituted propiophenones. 3053
Fliegl, E. See Ostrogovich, G. 2701
Fodor, G., Mandava, N. and Weisz, I. Nucleophilic dequaternization of condensed azetidinium salts—II. 8-Methyl-8-azonium tricyclo [2.2.1.1.^{2,6}] nonane salts—an NMR study. 2357
Foerster, S. See Schulte, K. E. 1899
Foffani, A. See Piazza, G. 4751
Forbes, E. J. and Gray, C. J. The synthesis and spectroscopic properties of some substituted and bridged biphenyls. 2795
Forbes, E. J. and Gray, C. J. Intramolecular hydride transfer to a diazonium intermediate and to a benzene. 6223
Forbes, E. J. See Cook, M. J. 4501
Forcellese, M. L. See Nicoletti, R. 6519
Forchiassin, M. See Risaliti, A. 1889
Forgacs, J. See Burkhardt, H. J. 717
Franchini, P. F. See Cencioni, R. 151
Franklin, N. C. See Baumann, H. 589
Frankowski, A. See Bochwic, B. 6653
Fridrichsons, J. and Mathieson, A. McL. The crystal structure of coclaurine hydrobromide monohydrate and the absolute configuration of coclaurine. 5785
Frischleder, H. See Mühlstädt, M. 6075
Fromageot, H. P. M., Reese, C. B. and Sulston, J. E. The synthesis of oligoribonucleotides—VI. 2'-O-acyl ribonucleoside derivatives as intermediates in the synthesis of dinucleoside phosphates. 3533
Fuganti, C. See Piozzi, F. 1119
Fujii, H. See Saegusa, T. 3795
Fujisawa, N. See Mori, K. 3113
Fujita, S. See Nozaki, H. 2193
Fujiwara, Y., Moritani, I. and Matsuda, M. Aromatic substitution of olefin—III. Reaction of styrene-palladium(II) chloride complex. 4819
Furey, R. L. and Lan, R. O. The photochemical hydrolysis of N-substituted imines. 3085
Furukawa, J., Kawabata, N. and Nishimura, J. Synthesis of cyclopropanes by the reaction of olefins with dialkylzinc and methylene iodide. 53

- Furuta, T.** See Tomoeda, M. 959
- Furuya, Y., Goto, S., Itobo, K., Urasaki, I. and Morita, A.** The kinetics of the triethylenediamine-catalysed aminolysis of phenyl N-phenylcarbamates with aniline indioxan. 2367
- Gale, D. M.** Mass spectra of some fluorohydrocarbons. 1811
- Gallagher, R. T.** See Cambie, R. C. 4631
- Gallo, G. G.** See Casu, B. 803
- Gallo, G. G.** See Pocar, D. 6741
- Gallup, G. A., Maheshwari, M. L., Roy, S. K., and Wheeler, D. M. S.** Synthesis of diterpenoid acids—VIII. Nuclear magnetic resonance spectra and conformations of some lactones of octa- and decahydro-8-hydroxynaphthoic acids. 5769
- Galt, R. H. B.** New metabolites of Gibberella fujikuroi—XIV. Gibberellin A₁₈ methyl ester 1337
- Galt, R. H. B.** See Cross, B. E. 231
- Gansow, O. A. and Holm, R. H.** Aqueous solution equilibria of pyridoxamine, pyridoxal, 3-hydroxypyridine-4-aldehyde, and 3-hydroxypyridine-2-aldehyde as studied by proton resonance. 4477
- Gaoni, Y.** See Mechoulam, R. 5615
- Gård, E.** See Färcasiu, D. 4741
- Gasco, A., Barni, E., and DiModica, G.** Electronic absorption spectra of condensed thiazoles and oxazoles. 5569
- Gaskell, A. J. and Joule, J. A.** The zinc-acetic acid reduction of reserpine and other tetrahydro- β -carboline alkaloids. 5115
- Gassman, P. G. and Hymans, W. E.** Photochemical and non-photochemical routes to derivatives of 5 β ,7 β -cyclocholestane. A new class of cyclosteroids. 4437
- Gaudemer, A.** See Hollands, R. 1633
- Geise, H. J.** See Altona, C. 13
- Geluk, H. W. and Schlatmann, J. L. M. A.** Hydride transfer reactions of the adamantyl cation—I. A new and convenient synthesis of adamantanone. 5361
- Geluk, H. W. and Schlatmann, J. L. M. A.—II.** Synthesis of 1,3- and 1,4-disubstituted adamantanes. 5369
- George, M. V.** See Bhatnagar, I. 1293
- George, M. V.** See Khetan, S. K. 1567
- George, T. and Tahilramani, R.** Synthesis of quinolino heterocycles. 1007
- Ghatak, U. R., Chakravarty, J. and Banerjee, A. K.** Synthetic studies direct to gibberellins and related compounds. 1577
- Giannotti, C. et Schwang, H.** Sur l'isolement et la structure de deux déhydrofuropelargones, nouveaux sesquiterpènes de l'essence de *Géranium bourbon*. 2055
- Gilardeau, C.** See Allinger, N. L. 2401
- Gilbert, J. C.** See Doering, W. von E. 6863
- Ginsburg, D.** See Altman, J. 975
- Girotra, N. N.** See Taub, D. 2443
- Gleiter, R. and Hoffmann, R.** The stabilization of centers with six valence electrons through electron-rich three-center bonding. 5899
- Glotter, E.** See Lavie, D. 3017
- Glotter, E.** See Vita-Finzi, P. 5847
- Godfrey, M.** See Cookson, R. C. 1529
- Goh, A. K.** See Coates, P. 795
- González, Ma. P.** See Joseph-Nathan, P. 4007
- Görlitz, M.** See Günther, H. 5665
- Goto, S.** See Furuya, Y. 2367
- Goto, T.** See Isobe, M. 945
- Gottlieb, O. R., Taveira Magalhaes, M., Ottoni da Silva Pereira, M., Lins Mesquita, A. A., de Barros Corrêa, D., and de Oliveira, G. G.** The chemistry of Brazilian Guttiferae—XII. Isopentenylated xanthenes from *Kielmeyera* and *Calophyllum* species. 1601
- Götz, M., Bögri, T., Gray, A. H. and Strunz, G. M.** The structure of tuberostemonine. 2631
- Goutarel, R., Conreur, C., Djakouré, L., Leboeuf, M. et Cavé, A.** Alcaloïdes stéroïdiques—LXXVII. Synthèses de mono- et di-amines stéroïdiques. Alcaloïdes A (saracodine) et B (saracocine) du *Saracococca pruniformis* 7013
- Govindachari, T. R., Pai, B. R., Subramaniam, P. S. and Muthukumaraswamy, N.** Coumarins of *Clausena dentata* (Willd.) R and S. 753
- Govindachari, T. R., Parthasarathy, P. C., Pai, B. R. and Kalyanaraman, P. S.** Chemical investigation of *Andrographis serpyllifolia*. Isolation and structure of serpyllin, a new flavone. 7027
- Govindachari, T. R., Prakash, D. and Viswanathan, N.** Structure of apetalic acid. 6411
- Goyert, W.** See Köbrich, G. 4327
- Graefe, J.** See Mühlstädt, M. 6075
- Graham, S. H.** See Baggaley, K. H. 3445
- Grassmann, M.** See Tisue, G. T. 999
- Gray, A. H.** See Götz, M. 2631
- Gray, C. J.** See Forbes, E. J. 2795, 6223
- Green, M. J.** See Burn, D. 4033
- Greenhalgh, P. F.** See Jones, D. N. 297, 5215
- Grezemkovsky, R.** See Berkoz, B. 2851
- Gribble, G. W.** See Dolby, L. J. 6377
- Grifantini, M.** See Alimenti, G. 395
- Griffin, B. E., Jarman, M. and Reese, C. B.** The synthesis of oligoribonucleotides—IV. Preparation of dinucleoside phosphates from 2',5'-protected ribonucleoside derivatives. 639
- Griffin, B. E. and Reese, C. B.** The synthesis of oligoribonucleotides—V. The preparation of some dinucleotides and trinucleoside diphosphates. 2537
- Griffin, S.** See Bertelli, D. J. 1945
- Griffiths, J. R.** See Brocklehurst, K. 2407
- Grohe, K.** See Roedig, A. 1851
- Gross, H. and Bilk, L.** Zur Reaktion von N-hydroxysuccinimid mit Dicyclohexylcarbodiimid. 6935

- Grunwald, E. See Puar, M. S. 2603
Gualtieri, F. See Alimenti, G. 395
Gunsher, J. See Jefford, C. W. 2921
Günther, H., Görnitz, M. und Hinrichs, H.-H. Protonenresonanz-spektroskopie Ungesättigter Ringsysteme—VII. 7-Monosubstituierte cycloheptatriene. 5665
Günther, H. and Hinrichs, H.-H. Protonresonance spectroscopy of unsaturated ringsystems—VIII. 1,6-Imino, 1,6-methylimino and 1,6-ethyleno [10] annulene. 7033
Gupta, K. C. and Scheuer, P. J. Echinoderm sterols. 5831
Gupta, Y. P. See Kessar, S. V. 893, 899, 905
Gurvich, I. A. See Zaretskii, V. I. 2327
Güsten, H., Kirsch, G. und Schulte-Frohlinde, D. Synthese und Oxidation von phenyl-substituierten Resorcinolen. 4393
Güsten, H. und Klasinc, L. Zum Mechanismus der Photochemischen Cyclisierung von *cis*-Stilbenen. 5499
Gut, V., Rudinger, J., Walter, R., Herling, P. A. and Schwartz, I. L. Derivatives of 1-tosyl-3-amino-2-piperidone: Preparation and conversion to derivatives and peptides of ornithine. 6351
Guthrie, R. D. See Barlow, C. B. 4517
Gutsche, C. D., Maycock, J. R. and Chang, C. T. Acid-catalyzed cyclization of farnesol and nerolidol. 859
Guzmán, A. See Rodríguez-Hahn, L. 477
Haake, P. and Ossip, P. S. A mass spectrometric study of some dialkylphosphinic acids and their alkyl esters. 565
Haarstad, V. B. See van Tamelen, E. E. 687
Haddock, R. E. See Trager, W. F. 523
Hadeball, W. See Mann, G. 6941
Hafner, K. See Fleischer, R. 5943
Hageman, H. J. See Vollbracht, L. 6265
Hagenmaier, H. See Bayer, E. 4853
Hajos, Z. G., Parrish, D. R. and Oliveto, E. P. Total synthesis of optically active (-)-17 β -hydroxy $\Delta^9(10)$ -desA-androsten-5-one. 2039
Halfar, K. See Schiele, C. 5023
Hall, J. E. See Kutney, J. P. 845
Hall, L. H. See Feuer, J. 2575
Halpern, B. See Crabbé, P. 4299, 4315
Ham, N. S. See Beecham, A. F. 2773
Hamada, Y. See Kotera, K. 759, 2463
Hamer, J. See Farmer, R. F. 829
Hammond, W. B. See Turro, N. J. 6017, 6029
Hanson, J. R. and White, A. F. The chemistry of the tetracyclic diterpenoids—VII. Stereochemical studies in the fujenal series. 2527
Hanson, J. R. and White, A. F.—VIII. The stereochemistry of atractylanic acid. 2533
Hanson, J. R. and White, A. F. The transformation of steviol by *Gibberella fujikuroi*. 6291
Harary, F. See Balaban, A. T. 2505
Harayama, T. See Inubushi, Y. 3541
Harris, C. M. See Harris, T. M. 6897
Harris, M., Henderson, R., McCrindle, R., Overton, K. H. and Turner, D. W. Tetrarortriterpenoids—VIII. The constitution and stereochemistry of nimbini. 1517
Harris, T. M., Harris, C. M. and Wachter, M. P. Condensations of dehydroacetic acid at the 6-methyl position. 6897
Harrison, R., Heaney, H. and Lees, P. Aryne chemistry—XI. Trapping agents for arynes produced from Grignard- and organolithium reagents. 4589
Hartgerink, J. W. See Kwa, T. L. 5711
Hartshorn, M. P. See Coxon, J. M. 1193
Haslam, E. and Uddin, M. The synthesis of 2- and 3-galloyl derivatives of arbutin. 4015
Hata, K. See Sato, T. 5557
Havinga, E. See Buys, H. R. 3019, 4967
Haworth, R. D. See Cheshire, M. V. 5155
Hayashi, Y. See Oda, R. 4051
Hayasi, Y. See Nozaki, H. 6563
Head, R. J. See Jones, R. Alan. 2013
Heaney, H. and Lees, P. Aryne chemistry—X. Approaches to the preparation of 2,2'-dihalogenobiphenyls in which the two halogens are different and the synthesis of substituted triphenylenes from 2-chloro-2'-lithiobiphenyl. 3717
Heaney, H. See Harrison, R. 4589
Heathcock, C. H. and Amano, Y. Sesquiterpenoids—V. The synthesis and formolysis of 4 α ,8 β -dimethyl-8 α -hydroxydecahydronaphth-2 β -oic acid and 4 α ,8 β -dimethyl-8 α -hydroxydecahydronaphth-2 α -oic acid lactone. 4917
Heathcock, C. H. and Kelly, T. Ross. Sesquiterpenoids—III. Total synthesis of eudesmane sesquiterpenoids. 1801
Heathcock, C. H. and Kelly, T. R.—IV. Acid-catalyzed methyl migration in 9-methyl decalins. 3753
Heckert, D. C. See Kropp, P. J. 1385
Hedaya, E. and Theodoropoulos, S. The preparation and reactions of stable phosphorus ylides derived from maleic anhydrides, maleimides or isomaleimides. 2241
Heffron, P. J. See Verbit, L. 1231
Heilbronner, E. See Binsch, G. 1215
Heimlich, B. N. See Wallace, T. J. 1311
Heiss, J., Zeller, K.-P. und Zeeh, B. Massenspektrometrische Fragmentierung einiger Schwefelhaltiger aromatischer Heterocyclen sowie ihrer Sulfoxide und Sulfone. 3255
Heiss, J. See Meier, H. 2307
Hencher, J. L. See Dorko, E. A. 2425
Henderson, R., McCrindle, R., Melera, A. and Overton, K. H. Tetrarortriterpenoids—IX. The constitution and stereochemistry of salannin. 1525
Henderson, R. See Harris, M. 1517
Hendriks, D. See Schiele, C. 2293, 5017, 5029
Henke, G. See Schulte, K. E. 1899
Herling, P. A. See Gut, V. 6351

- Herndon, W. C.** See Feuer, J. 2575
Herrmann, M. See Mfhlstätt, M. 1611
Heublein, G. und Agatha, G. Zur Solvation des Übergangszustandes bei der elektrophilen Bromaddition an Olefine. 3799
Heublein, G. und Umbreit, P. Direkter Nachweis der ionaren Zwischenstufe bei der Elektrophilen Bromaddition an Olefine. 4733
Hikino, H., Hikino, Y., Nomoto, K. and Takemoto, T. Cyasterone, an insect metamorphosing substance from *Cyathula capitata*: Structure. 4895
Hikino, H., Tokuoka, Y., Hikino, Y. and Takemoto, T. Biochemical syntheses—I. Microbial transformation of α -kessyl alcohol to kessyl glycol and kessane-2 β ,7-diol. 3147
Hikino, Y. See Hikino, H. 3147, 4895
Hinman, R. L. Basicities of enamines. 185
Hinoh, H. See Kubota, T. 675
Hinrichs, H.-H. See Günther, H. 5665, 7033
Hirata, Y. See Irikawa, H. 5691
Hirata, Y. See Yamada, K. 199, 1255, 1267
Hiriyakkanavar, J. G. See Khetan, S. K. 1567
Hirose, Y. See Naya, K. 5871
Hirsch, B. See Nikolajewski, H. E. 6685
Hirschfeld, A. See Feuer, J. 1187
Hobin, T. P. Some aminodinitro derivatives of benzofurazan and benzofurazanoxide. 6145
Hochmann, P. See Fleischer, R. 5943
Hodgins, L. T. See Bank, S. 381
Hodgkin, D. C. See Cooper, A. 909
Hodgson, R. L. High temperature reactions of iodine with various organic compounds. 4833
Hoffmann, R. See Gleiter, R. 5899
Hoffmeister, E. H. See Richards, J. L. 6485
Hoffsommer, R. D. See Taub, D. 2443
Höhne, E., Adam, G., Schreiber, K. and Tomko, J. Röntgenstrukturanalyse von Veralkaminhydrojodid. 4875
Holland, V. R. and Saunders, B. C. Studies in peroxidase action—XVIII. The oxidation of 4-chloraniline—further studies. 585
Hollands, R., Becher, D., Gaudemer, A. et Polonsky, J. Etude des constituants des fruits *D'waria catocarpa* (Annonacée). Structure du *senépoxyde* et du *senéol*. 1633
Holm, R. H. See Gansow, O. A. 4477
Holmes, J. L. See Neville, G. A. 3891
Holzappel, C. W. The isolation and structure of cyclopiazonic acid, a toxic metabolite of *Penicillium cyclopium* Westling. 2101
Holzappel, C. W. and Steyn, P. S. The isolation and structure of a new diterpene lactone from *Trichothecium roseum* Link. 3321
Hong, Soon-Yung and Baldwin, J. E. Cycloadditions—XIX. Kinetics of the thermal decomposition of 2,5-diaryltetrazoles. 3787
Hopff, H. and Osman, Maged A. The vinyl-interchange reaction—I. Vinyl acetate with carboxylic acids stronger than acetic acid. 2205
Hopff, H. and Osman, M. A. II. Vinyl acetate with carboxylic acids weaker than acetic acid. 3887
Horiike, M. See Inouye, Y. 2907
Horiuchi, M. See Sawa, Y. K. 255
Hosokawa, Y. See Shimizu, M. 5241
Hosoya, H. See Yamaoka, T. 6203
Hostettler, F. D. See Seikel, M. K. 1475
Hübner, H. See Becker, H. G. O. 1031
Hudec, J. See Brown, R. F. C. 3955
Hudec, J. See Cookson, R. C. 4353
Huffman, R. W. See Meyer, W. L. 5959
Hughes, A. N. and Uaboonkul, S. Reaction between 1,2,5-triphenylphosphole and dimethyl acetylenedicarboxylate. 3437
Hughes, D. D. The importance of non-bonded interactions in amide structures. 6423
Huisman, H. O. See Lakeman, J. 5151
Huisman, H. O. See Speckamp, W. N. 5881, 5893
Huisman, H. O. See Wiedhaup, K. 771, 779, 789
Huneck, S., Djerassi, C., Becher, D., Barber, M., von Ardenne, M., Steinfelder, K. und Tümmler, R. Flechteninhaltsstoffe—XXXI. Massenspektrometrie und ihre Anwendung auf strukturelle und stereochemische Probleme—CXXIII. Massenspektrometrie von Depsiden, Depsidonen, Depsonen, Dibenzofuranen und Diphenylbutadienen mit positiven und negativen Ionen. 2707
Hunneman, D. H. See Eglinton, G. 5929
Huysmans, W. G. B. See Vollbracht, L. 6265
Hymans, W. E. See Gassman, P. G. 4437
Hyon Yoh, Y. See Smith, W. B. 1163
Ibuka, T. See Inubushi, Y. 3541
Iddon, B. See Chambers, R. D. 877
Igeta, Shin-Ichi. See Suehiro, T. 1551
Ikeda, Y. See Minamida, I. 5293
Ikehara, M., Tada, H. and Kaneko, M. Studies of nucleosides and nucleotides—XXXV. Purine cyclonucleosides-5. Synthesis of purine cyclonucleoside having 8,2'-O-anhydro linkage and its cleavage reactions. 3489
Inamasu, S. See Inouye, Y. 2907
Inouye, S., Tsuruoka, T., Ito, T. and Niida, T. Structure and synthesis of nojirimycin. 2125
Inouye, Y., Inamasu, S., Horiike, M., Ohno, M. and Walborsky, H. M. Solvent effect in a partial asymmetric synthesis—I. 2907
Inubushi, Y., Ibuka, T., Harayama, T. and Ishii, H. Mass spectra of serratinine and its derivatives. 3541
Inuzuka, M. See Tomoeda, M. 959
Irie, T., Suzuki, M. and Masamune, T. Laurencin, a constituent of *Laurencia glandulifera* Kützing. 4193
Irikawa, H., Sakabe, N., Yamamura, S. and Hirata, Y. The structures of daphniphylline and codaphniphylline. 5691
Isard, A. See Schirmann, J. P. 6475
Isfan, E. See Barabás, A. 1133

- Ishii, H., Tozyo, T., Nakamura, M. and Takeda, Ken'ichi. Components of the root of *Lindera strychnifolia* Vill.—XIII. Structure of isogemafurene and linderoxide. 625
- Ishii, H. See Inubushi, Y. 3541
- Isobe, M. and Goto, T. Synthesis of grifolin, an antibiotic from a *basidiomycete*. 945
- Ito, M. See Nishimoto, K. 735
- Ito, T. See Inouye, S. 2125
- Itoh, M., Tokuda, M., Kihara, K. and Suzuki, A. Photochemical organic syntheses—I. Photochemical addition of formamide and aniline to crotonic acid and its esters. 6591
- Itoh, T. See Tsuge, O. 2583
- Itoho, K. See Furuya, Y. 2367
- Iwakura, T., Toda, F., Torii, Y. and Tomioka, Y. Reactions of alkylidenepseudoxazolones with amines. 575
- Iwamura, H. See Ōki, M. 1905, 2377
- Iwamura, M. See Ōki, M. 1905
- Izawa, Y. See Ogata, Y. 1617
- Izawa, Y. See Tomioka, H. 5739
- Jackson, A. H., Naidoo, B. and Smith, P. IV. The cyclization of indolylbutanol to tetrahydrocarbazole. 6119
- Jackson, A. H. and Smith, A. E. Electrophilic substitution in indoles—II. The formation of 3,3-spirocyclic indole derivatives from tryptamines and their rearrangement to β -carboline. 403
- Jackson, A. H. and Smith, P. III. Rearrangement of 3,3-dialkyl indolenines. 2227
- Jackson, A. H. See Biswas, K. M. 1145
- Jackson, B., Locksley, H. D. and Scheinmann, F. Extractives from Guttiferae—VIII. The isolation of 6-(3,3-dimethylallyl)-1,5-dihydroxy-xanthone and two related metabolites from *Calophyllum scribittifolium* Henderson and Wyatt-Smith. 3059
- Jain, A. C., Khanna, V. K., Sarpal, P. D. and Seshadri, T. R. Synthesis of tetra-O-methyl distemonanthin and related dehydropeltogynandiones. 3237
- Jakobsen, P. and Lawesson, S.-O. Enamine chemistry—XI. The reaction of enamines with styrene oxide. 3671
- Jakobsen, P. See Duus, F. 5323
- Jakovljević, M. See Lj. Mihailović, M. 6959
- Jarman, M. See Griffin, B. E. 639
- Jaworski, M. See Smoliński, S. 6977
- Jefferies, P. R. See Coates, P. 795
- Jefford, C. W., Mahajan, S. N. and Gunsher, J. The stereochemistry of bicyclo[3.2.1]octane—XVI. Allylic reactivity of bicyclo[3.2.1]octene-2; reduction with metal hydrides. 2921
- Jefford, C. W. and Ramey, K. C. XVII. Long range internuclear spin interactions between protons in derivatives of bicyclo[3.2.1]octene-2. 2927
- Jeffs, P. W. See Döpke, W. 2297, 4459
- Jeffs, P. W. See Schnoes, H. K. 2825
- Jeng, S. See Manhas, M. S. 1237
- Jensen, M. A. See Barlow, C. B. 4517
- Jeremić, D. See Mihailović, M. Lj. 4947
- Johnson, B. L. See Clarke, S. C. 5067
- Johnson, D. B. See Seikel, M. K. 1475
- Johnston, G. A. R. Acetylation of nucleosides and acetyl migration 6987
- Johnston, K. M. Friedel-Crafts cyclizations—I. The influence of nuclear substituents on the polyphosphoric acid-catalysed isomerization of cinnamanilide to 4-phenyl-3,4-dihydrocarbo-styryl. 5595
- Jonas, D. A. See Baggaley, K. H. 3445
- Jones, D. H. See Baggaley, K. H. 3445
- Jones, D. N., Greenhalgh, P. F. and Thomas, I. Reaction of ergosteryl acetate with acrylonitrile and α -acetoxycrylonitrile. 5215
- Jones, D. N., Greenhalgh, P. F. and Thomas, I. Revised structures for the adducts of ergosteryl acetate with maleic anhydride. 297
- Jones, D. W. See Cotterill, W. D. 1981
- Jones, R. Alan, Pojarvieta, T. and Head, R. J. Pyrrole studies—XIII. The synthesis and spectroscopic properties of *trans* 2-(*p*-substituted styryl) pyrroles. 2013
- Jordens, P. See Kraak, A. 3381
- Joris, L. and von Rague Schleyer, P. π -Deficient N-heteroaromatics as proton acceptors in hydrogen-bonding. Infrared spectral shifts vs. pKa's as measures of "basicity". 5991
- Joris, L., von Ragué Schleyer, P. and Ōsawa, E. Infrared spectral consequences of conformational heterogeneity in saturated alcohols. 4759
- Joseph, T. C. and Dev, Sukh. Studies in sesquiterpenes—XXIX. Structure of himachalenes. 3809
- Joseph, T. C. and Dev, Sukh. XXXI. The absolute stereochemistry of himachalenes. 3841
- Joseph, T. C. and Dev, Sukh. XXXII. Structure of himachalene monohydrochloride and the preparation of *trans*-himachalenes. 3853
- Joseph-Nathan, P., Reyes, J. and González, M. P. Contribution to the chemistry of perezone. 4007
- Joshi, G. S. See Kessar, S. V. 899
- Joshi, V. S., Damodaran, N. P. and Dev, Sukh. Organic reactions in a solid matrix—I. Alumina-induced oxirane rearrangements. 5817
- Joule, J. A. See Gaskell, A. J. 5115
- Joule, J. A. See Wilson, N. D. V. 5493
- Joullié, M. M. See Munshi, J. F. 1923
- Jugelt, W. and Pragst, F. Struktur und Reaktivität Aliphatischer Diazoverbindungen—VIII. Polarographische Oxydation substituierter Diphenyldiazomethane und der Zusammenhang zur Kinetik ihrer Zersetzung mit Benzoesäure. 5123
- Jugelt, W. and Schmidt, D. Protonierungsgeschwindigkeitskonstanten und Salzeffekte in der säurekatalysierten Hydrolyse einiger aliphatischer Diazoverbindungen. 59
- Jukes, A. E. See Coe, P. L. 5913

- Julg, A. et Benard, M. Un procédé général de traitement des molécules conjuguées. La méthode LCAO améliorée avec interaction vibrationnelle (Application aux hydrocarbures). 5575
- Jung, G. See Bayer, E. 4853
- Jurd, L. and Lundin, R. Anthocyanidins and related compounds—XII. Tetramethylleucocyanidin-phloroglucinol and resorcinol, condensation products. 2653
- Jurd, L. XIII. Hydrogen peroxide oxidation of flavylum salts. 4449
- Jurd, L. and Weiss, Jr. A. C. XIV. Reductive dimerization of flavylum salts by metals. 2801
- Just, G. and Dahl, K. Lead tetraacetate oxidation of aldoximes. 5251
- Just, G. and Lee-Ruff, E. On the reaction of bicyclobutanes with carbonyl compounds. 601
- Kagan, H. B. See Fischer, N. H. 4091
- Kagan, H. B. See Luche, J. L. 1275
- Kai, F. and Seki, S. Synthesis of substituted triodoallenes. 415
- Kalinowski, H. O. See Schiele, C. 2293
- Kalyanaraman, P. S. See Govindachari, T. R. 7027.
- Kamikawa, T., Nakatani, M. and Kubota, T. Reaction of 2,6-dimethyl-4-methoxybenzaldehyde with methylmagnesium iodide and some properties of the reaction products. 2091
- Kamikawa, T. See Tokoroyama, T. 2345
- Kamogawa, K. See Kawanisi, M. 6557
- Kan, R. O. See Furey, R. L. 3085
- Kanaoka, Y., Sato, E. and Yonemitsu, O. Amino acids and peptides—II. Cyclodehydration of some tryptophan-dipeptides and their derivatives with polyphosphate ester. 2591
- Kaneko, M. See Ikehara, M. 3489
- Kanemasa, S. See Tsuge, O. 5205
- Kanō, H. See Ogata, M. 3725
- Kanoya, A. See Suehiro, T. 1551
- Karabatsos, G. J. and Taller, R. A. Structural studies by nuclear magnetic resonance—XV. Conformations and configurations of oximes. 3347
- Karabatsos, G. J. and Osborne, C. E. XVI. Conformations and configurations of hydrazones. 3361
- Karabatsos, G. J. and Taller, R. A. XVII. Conformations and configurations of N-methylhydrazones. 3557
- Karabatsos, G. J. and Lande, S. S. XVIII. Conformational and configurational isomerism of N-alkyl imines. 3907
- Karabatsos, G. J. and Taller, R. A. XIX. N,N-Dimethylhydrazones and general comments on configurational and conformational isomerism. 3923
- Karl, Chr. See Möhrle, H. 6813
- Kashman, Y. See Vita-Finzi, P. 5847
- Katzin, L. I. See Smith, H. E. 1327
- Kaufmann, H. See Rieker, A. 103
- Kawabata, N. See Furukawa, J. 53
- Kawaguchi, Y. See Naya, K. 5871
- Kawahara, N. See Mitsuhashi, H. 2789
- Kawanisi, M., Kamogawa, K., Okada, T. and Nozaki, H. Photochemical reactions of benzophenone with enamines. 6557
- Kawanisi, M. See Nozaki, H. 2183
- Kawasaki, A. See Ogata, Y. 5001
- Kelly, T. Ross. See Heathcock, C. H. 1801, 3753
- Kergomard, A. et Renard, M. Mutarotation du tetramethylglucose en solution. Benzenique catalyse par des acides carboxyliques. 6643
- Kern, E. See Mann, G. 6941
- Kessar, S. V. and Rampal, A. L. Synthetic studies in steroidal sapogenins and alkaloids—III. The synthesis and stereochemistry of isomeric 16-hydroxy- and 16-oxo-5,17(20)-pregnadien-3 β -ols. 887
- Kessar, S. V., Gupta, Y. P., Mahajan, R. K. and Rampal, A. L. IV. Stereochemistry of Michael addition to 5,17(20)-pregnadien-3 β -ol-16-ones. 893
- Kessar, S. V., Gupta, Y. P., Mahajan, R. K., Joshi, G. S. and Rampal, A. L. V. Synthesis of kryptogenin, diosgenin and yamogenin. 899
- Kessar, S. V., Rampal, A. L. and Gupta, Y. P. VI. Synthesis of isonarthogenin. 905
- Kesselaar, F. H. See Wiedhaup, K. 779
- Kessler, H. Nachweis innermolekularer Beweglichkeit durch NMR-Spektrometrie—III. Magnetische Nichtäquivalenz geminaler Gruppen durch Rotationshinderung in Achiralen Molekülen. 1857
- Kessler, H. und Zeeh, B. Magnetische Nichtäquivalenz und Konformationen in ethyl-, benzyl- und Isopropyl-substituierten 3-H-indolen. 6825
- Kessler, H. See Rieker, A. 5133
- Khanna, V. K. See Jain, A. C. 3237
- Khetan, S. K., Hiriyakkanavar, J. G. and George, M. V. Reactions of dimethyl acetylenedicarboxylate—I. Reactions with phenacylanilines, ethyl anthranilate and aniline. 1567
- Kier, L. B. See Roche, E. B. 1673
- Kihara, K. See Itoh, M. 6591
- Kinsman, R. G. See Sainsbury, M. 6695
- Kirk, G. See Farrugia, M. T. 3499
- Kirsch, G. See Güsten, H. 4393
- Kitahonoki, K., Takano, Y. and Takahashi, H. Aziridine formation by lithium aluminum hydride reduction of ketoximes of bridged ring systems. 4605
- Kitahonoki, K. See Kotera, K. 3681, 6177
- Kitagorodsky, A. I. and Dashevsky, V. G. Conformational analysis of overcrowded aromatic molecules. 5917
- Kitaura, Y. See Matsuura, T. 6601
- Klasinc, L. See Güsten, H. 5499
- Klein, J. and Dunkelblum, E. The stereochemistry of hydroboration of conjugated ketones. 5701
- Klein, W. See Korte, F. 5601
- Knunyants, I. L. See Cheburkov, Yu. A. 1341

- Knox, J. R. See Coates, P. 795
Kobayashi, K. See Masamune, T. 3461
Kobayashi, S. See Ochiai, M. 5731
Kobayashi, Y. and Taira, S. Dimerization of acrylamides by rhodium trichloride. 5763
Kobe, J., Stanovnik, B. and Tišler, M. Synthesis of pyridazine derivatives—XV. Some electrophilic substitutions on imidazo [1.2-b]-pyridazines. 239
Köbrich, G. and Goyert, W. Stabile carbenoide—XXIX. 7-Chlor-7-Norcaryllithium. 4327
Köbrich, G. and Fischer, R. H. XXX. Chloromethylolithium und Bromchloromethylolithium. 4343
Koch, E. Zur photosensibilisierten Sauerstoffübertragung Untersuchung der Terminations-schritte durch Belichtungen bei tiefen temperaturen. 6295
Kochetkov, N. K., Chizhov, O. S. and Molodtsov, N. V. Mass spectrometry of oligosaccharides. 5587.
Kochi, J. K. and Bemis, A. Catalytic reactions of peroxides. Direct initiation by cuprous species. 5099
Kochi, J. K. and Singleton, E. A. Autoxidation of N-alkylisoindolines. Solvent effects and mechanisms. 4649
Kochi, J. K., Singleton, D. M. and Andrews, L. J. Alkenes from halides and epoxides by reductive eliminations with Cr^{II} complexes. 3503
Kochi, J. K. See Bacha, J. D. 2215
de Kock, W. T. and Pachler, K. G. R. Gafrinin, a sesquiterpenoid lactone from *Geigeria africana* Gries—II. Conformation. 1701
de Kock, W. T., Pachler, K. G. R., Ross, W. F., Wessels, P. L. and du Preez, I. C. Griesenin and dihydrogriesenin, two new sesquiterpenoid lactones from *Geigeria africana* Gries—I. Structures. 6037
de Kock, W. T., Pachler, K. G. R. and Wessels, P. L. II. Nuclear magnetic resonance studies and conformation 6045
de Kock, W. T. See Anderson, L. A. P. 1687
Koeppe, B. H. Synthesis of neohesperidose. 4963
Kogan, L. M. See Zaretskaya, I. I. 1595
Kohl, H. See Tschesche, R. 4359
Kolsaker, P. See Berner, E. 1199
Komeno, T. See Djerassi, C. 6913
Komori, T. See Suehiro, T. 1551
Kompiš, I. See Ognyanov, I. 4641
Kondó, K. See Nozaki, H. 1445, 6563
Konigsdorfer, K. See Fahr, E. 1011
Konishi, K. see Okuda, T. 6907
Kornilova, S. A. See Elyakov, G. B. 5483
Korsloot, J. G. See Wiedhaup, K. 771
Korte, F., Schumacher, H., Klein, W. und Daffertshofer, G. Kettenlängeneffekte in paraffinen—VI. über die Elektronische steuerung der Nitrierung von Hydrochinonmethylalkyl-diäthern durch Alkylketten von C₁—C₁₈. 5601
Korte, F. See Claussen, U. 1021, 2897
Korte, F. See von Spulak, F. 5379
Korver, O., Kwa, T. L. and Boelhouwer, C. The Diels-Alder reaction between styrene and *trans-trans* hexa-2,4-diene. Structure and conformation of two isomeric adducts. 1025
Korver, O. See Kwa, T. L. 5711
Kostyanovsky, R. G., Yakshin, V. V. and Zimont, S. L. Hindered lone pair conjugation in the Vth group elements—I. Acetophosphides. 2995
Kosugi, Y. See Ogata, Y. 4057
Kotera, K., Hamada, Y. and Mitsui, R. The Amaryllidaceae alkaloids. Absolute configurations of diastereoisomeric methiodides in the lycorine-type alkaloids. 2463
Kotera, K., Hamada, Y. and Nakane, R. The Amaryllidaceae alkaloids. Transformation of lycorine into hippastrine. 759
Kotera, K., Matsukawa, Y., Takahashi, H., Okada, T. and Kitahonok, K. Aziridine formation by reduction of ketoximes with lithium aluminium hydride on dibenzylketoxime and its O-substituted derivatives. 6177
Kotera, K., Miyazaki, S., Takahashi, H., Okada, T. and Kitahonoki, K. Aziridine formation by lithium aluminum hydride reduction of oximes. 3681
Kotera, K., Motomura, M., Miyazaki, S., Okada, T. and Matsukawa, Y. Aziridine formation by lithium aluminum hydride reduction of dibenzo[a.c]cycloheptadien-6-one oxime. 1727
Kotera, K., Okada, T. and Miyazaki, S. Stereochemistry of aziridine formation by reduction of oximes with lithium aluminum hydride on aralkyl alkyl ketoximes and their tosylates. 5677
Kovač, M. See Fleš, D. 3053
Kraak, A., Wiersema, A. K., Jordens, P. and Wynberg, Hans. The synthesis of cyclopentadithiophenes. 3381
Kraak, A. and Wynberg, H. Charge-transfer interaction of dithienyls and cyclopentadithiophenes with 1,3,5-trinitrobenzene (TNB). 3881
Kraus, W. und Schmutte, P. Bicyclische Verbindungen—X. Ringerweiterung von norbornanderivaten—III. 1537
Kray, L. R. See Craig, J. Cymerman. 4267
Kresze, G. and Firl, J. Additionsreaktionen der nitrosogruppe—IX. Die Diels-Alder-Reaktion von 1-Mono- bzw. 1,4-disubstituierten dinen mit Nitrosoverbindungen. 1043
Krishnamurthy, S. S. and Soundararajan, S. Charge distribution in and electric moments of some aliphatic acids. 167
Kropp, P. J., Heckert, D. C. and Flaunt, T. J. Stereochemistry of electrophilic substitution of (+)-3-carene. Prins and Friedel-Crafts acetylation reactions. 1385
Krueger, P. J. See Skolik, J. 5439
Kubaszek, M. See Smolinski, S. 6983

- Kubota, T. and Hinoh, H. Triterpenoids from *Bupleurum falcatum* L.—III. Isolation of genuine saponinins, saikogenins E, F and G. 675
- Kubota, T. See Kamikawa, T. 2091
- Kubota, T. See Tokoroyama, T. 2345
- Kucherov, V. F. See Yanovskaya, L. A. 4677
- Kucherov, V. F. See Zaretskii, V. I. 2327
- Kugler, H. J. See Ramirez, F. 1931, 2275, 3153
- Kuhn, R., Skrabal, P. und Fischer, P. H. H. Das Radikal-Anion von Chinoxalino[2.3-b]chinoxalin. 1843
- Kulkarni, S. B. and Sukh, Dev. Organic reactions with polyphosphoric acid—VII. Wagner-Meerwein rearrangement in the intermolecular acylation of cycloheptene. 545
- Kulkarni, S. B. and Sukh, Dev. VIII. Intramolecular acylation with lactones (further extension) hydroxy acids and esters. 553
- Kulkarni, S. B. and Sukh, Dev. IX. Addition of acetic acid to olefins. 561
- Kumpfert, H. See Borsdorf, R. 65
- Kuo, C. H. See Taub, D. 2443
- Kurita, M. See Nozaki, H. 1821
- Kuriyama, K. See Djerassi, C. 6913
- Kuriyama, Y. See Ogata, Y. 3425, 6387
- Kurtin, W. E. and Pill-Soon, Song. Electronic structures and spectra of some natural products of theoretical interest—I. Molecular orbital studies of anthocyanidins. 2255
- Kutney, J. P., Eigendorf, G. and Hall, J. E. Aza steroids—VII. Synthesis of ring A-oxygenated 6-aza steroids. 845
- Kwa, T. L., Lorver, O., Hartgerink, J. W. and Boelhouwer, C. The Diels-Alder reaction between styrene and methyl sorbate—II. Kinetics. 5711
- Kwa, T. L. See Korver, O. 1025
- Lablache-Combiere, A. et Villaumme, M. L. Syntheses d'isoxazolidines par addition dipolaire 1-3 d'oximes. 6951
- Lahiri, J. See Burnelle, L. 3517
- Lakeman, J., Speckamp, W. N. and Huisman, H. O. Addition to steroid polyenes—V. Reaction of 7-dehydroprogesterone-diketal with dimethyl diazodicarboxylate. 5151
- Lande, S. S. See Karabatos, G. J. 3907
- Larsen, B. Soggaard, Schroll, G., Lawesson, S.-O., Bowie, J. H. and Cooks, R. G. The mass spectra of nitrones. C—O bond formation upon electron impact. 5193
- Larsson, E. Über die Raceformen der α -Phenylsulfoxyd-propionsäure, α -Phenäthylsulfoxyd-essigsäure und α -Benzylsulfoxyd-propionsäure. 6197
- Laurie, V. W. See Brauman, J. I. 2595
- Lavie, D., Danieli, N., Weitman, R. and Glotter, E. A new quinolone type alkaloid from *Haplophylum tuberculatum* (Rutaceae). 3011
- Lavie, D. See Tedeschi, E. 4573
- Lavie, D. See Vita-Finzi, P. 5847
- Lawesson, S.-O., Schroll, G., Bowie, J. H. and Cooks, R. G. Electron impact studies—XXII. Mass spectra of substituted benzimidazoles. 1875
- Lawesson, S.-O. See Duus, F. 5323
- Lawesson, S.-O. See Jakobsen, P. 3671
- Lawesson, S.-O. See Larsen, B. S. 5193
- Lawesson, S.-O. See Madsen, J. Ø. 3369
- Lawesson, S.-O. See Nolde, C. 1051
- Leboeuf, M. See Goutarel, R. 7013
- Lee, C. M. See Trager, W. F. 523
- Lee, K. H. Polar effects in hydrogen abstraction from benzaldehydes—I. Abstraction by the trichloromethyl radical. 4793
- Lee, W. S. See Cava, M. P. 837
- Lee-Ruff, E. See Just, G. 601
- Leermakers, P. See Doering, W. von E. 6863
- Lees, P. See Harrison, R. 4589
- Lees, P. See Heaney, H. 3717
- de Leeuw, J. See Roest, B. C. 2155
- Lehn, J. M. See Anderson, J. E. 123, 137
- Leigh, M. See Strickson, J. A. 5145
- Lempert, K. See Doleschall, G. 5529, 5547
- Leonov, V. N. See Zaretskii, V. I. 2339
- Lesinska, J. See Lukasiewicz, L. 7
- Leupold, D. See Nikolajewski, H. E. 6685
- Levine, S. D., Neidleman, S. L. and Oberc, M. An enzymatic route to α -bromo steroidal ketones. 2979
- Lewis, J. E. See Barlow, C. B. 4517
- Lewis, J. W. and Readhead, M. J. Reduction of 14-alkenylcodeinones by sodium borohydride in pyridine. 1829
- Lewis, J. W. See Coulter, J. M. 4489
- Lhomme, J. et Ourisson, G. Le Longifolène—XIII. Hydroboration du longifolène. 3167
- Lhomme, J. et Ourisson, G. XIV. Oxydation des longifolols par le tétracétate de plomb. 3177
- Lhomme, J. et Ourisson, G. Oxydation des camphanols par le tétracétate de plomb. 3201
- Liang, J. S. See Fishman, J. 2199
- Lightner, D. A. See Djerassi, C. 6913
- Lins Mesquita, A. A. See Gottlieb, O. R. 1601
- Lippi, G. See Berti, G. 1959
- Little, J. H. See Booth, H. 279
- Livingstone, R. See Cotterill, W. D. 1981
- Locksley, H. D. See Jackson, B. 3059
- Lodewijk, E. See Roest, B. C. 2155
- Lomas, D. See Chambers, R. D. 5633
- Luche, J. L., Kagan, H. B., Parthasarathy, R., Tsoucaris, G., de Rango, C. and Zelwer, C. Stereochemistry in the β -lactam series—III. 1275
- van der Lugt, W. Th. A. M., Buck, H. M. and Oosterhoff, L. J. Steric effects in proton and hydride transfer processes in strongly acidic solvents. 4941
- Lugton, W. G. D. See Brown, D. W. 2517
- Lugton, W. G. D. See Sainsbury, M. 427
- Lukasiewicz, A. and Lesinska, J. Reactions of trihalogenoacetic acids—VI. The reaction of trichloroacetic acid with enamines. 7

- Lukasiewicz, A. VII. Donor-acceptor properties of α -(trihalogenomethyl)amines. 513
- Lundin, R. See Jurd, L. 2653
- Lundin, R. E. See Burkhardt, H. J. 1225
- Lunn, W. H. W. and Farkas, E. The adamantyl carbonium ion as a dehydrogenating agent, its reactions with estrone. 6773
- Lusinchi, X. See Parello, J. 6747
- Lwowski, W. See Tisue, G. T. 999
- Lynch, B. M., Macdonald, B. C. and Webb, J. G. K. NMR spectra of aromatic amines and amides—I. Correlations of amino proton shifts with Hammett substituent constants and with Huckel electron densities. 3595
- Lynch, P. P. See Coulter, J. M. 4489
- Mabry, T. J. See Fischer, N. H. 4091
- Mabry, T. J. See Markham, K. R. 823
- Mabry, T. J. See Thomas, M. B. 3675
- Macchia, B. See Berti, G. 1755, 1959
- Macchia, F. See Berti, G. 1755
- Macdonald, B. C. See Lynch, B. M. 3595
- Mackor, A., Wajer, Th. A. J. W. and de Boer, Th. J. C-Nitroso compounds—VI. Acylalkyl-nitroxides from acyl radicals and nitroso compounds as studied by ESR. 1623
- Madsen, J. Ø. and Lawesson, S.-O. Enamine chemistry—X. The reaction of enamines with α -chloroacrylonitrile. 3369
- Mahajan, R. K. See Kessar, S. V. 893, 899
- Mahajan, S. N. See Jefford, C. W. 2921
- Maheshwari, M. L. See Gallup, G. A. 5769
- Majhofer, B. See Fleš, D. 3053
- Makosza, M. Reactions of organic anions—IX. Competitive alkylation of acetonitrile derivatives. 175
- Mandava, N. See Fodor, G. 2357
- Manhas, M. S., Jeng, S. and Bose, A. K. Studies on lactams—VIII. The conformation of N-aryl lactams. 1237
- Mann, G., Mühlstädt, M. and Braband, J. Konformation und Physikalische daten von Alkanen und Cyclanen—III. Alkylcyclohexane C₇ bis C₉. 3607
- Mann, G. IV. Konformationsenergie von *anti-gauche*-Konformeren. 6495
- Mann, G., Mühlstädt, M., Müller, R., Kern, E. and Hadeball, W. V. Dimethylcycloheptane. 6941
- Marchese, G., Modena, G. and Naso, F. Nucleophilic reactions in ethylenic derivatives—X. Reactions of nitrobrostyrenes with methoxide and thiophenoxide ions. 663
- Marekov, N. L. and Popov, S. S. The structure of gentioflavine, a new alkaloid of some gentiana species. 1323
- Markham, K. R. and Mabry, T. J. The structure and stereochemistry of two new dihydroflavonol glycosides. 823
- Marsili, A. Conversion of indones to quinoline and isoquinoline derivatives—III. Schmidt reaction with 2,3-dipehnylindone and similar compounds. 4981
- Marsili, A., Saettono, M. F. and Scartoni, V. Schmidt reaction with 2-(*o*-carboxyphenyl)3-phenylindone and with 2-(*o*-carbomethoxyphenyl)3-phenylindone. 4993
- Martin, R. N. See Flammang, R. 1171
- Marumoto, R. See Ochiai, M. 5731
- Masamune, T., Kobayashi, K., Takasugi, M., Mori, Y. and Murai, A. Establishment of the C₉ configuration of jervine and related alkaloids. Structure of the Birch reduction products of "jervine-11 β -ol" and 11-deoxojervine. 3461
- Masamune, T. See Irie, T. 4193
- Matsui, M. See Mori, K. 6573
- Masui, M. See Sayo, H. 5075
- Mathieson, A. McL. See Fridrichsons, J. 5785
- Matić, R. See Mihailović, M. Lj. 4947
- Matsuda, M. See Fujiwara, Y. 4819
- Matsui, M. See Mori, K. 3095, 3113, 3127
- Masui, M. See Sayo, H. 1717
- Matsukawa, Y. See Kotera, K. 1727, 6177
- Matsumoto, K. Studies on the pinacol rearrangement—V. The rearrangements of *cis*- and *trans*-1,2-diphenyl-1,2-di-tolylethylene oxides. 6851
- Matsunaga, S. See Uyeo, S. 2859
- Matsushima, H. See Matsuura, T. 6615
- Matsuura, T., Sugae, R., Nakashima, R. and Omura, K. Photoinduced reactions—XVI. Photopinacolization of triketoindane derivatives. 6149
- Matsuura, T. and Ogura, K. XVII. A bicyclo-[3.1.0]hex-3-en-2-one intermediate in the photoaromatization of 2,4,6-trialkyl-6-acetoxy-2,4-cyclohexadienone. 6157
- Matsuura, T. and Ogura, K. XVIII. The photochemical transformation of 4-hydroxy- and 4-acetoxy-2,5-cyclohexadienones. 6167
- Matsuura, T., Kitaura, Y. and Nakashima, R. XX. The photopinacolization of certain 1,4-diketones. 6601
- Matsuura, T. and Saito, I. XXI. Photosensitized oxygenation of N-unsubstituted hydroxypurines. 6609
- Matsuura, T. and Matsushima, H. XXII. Photooxidative cyclization of 3-methoxyflavones. 6615
- Matsuura, T. see Omura, K. 3475
- Mattison, P. See Reusch, W. 4933
- Maul, J. J. See Allinger, N. L. 4257
- Maycock, J. R. See Gutsche, C. D. 859
- Mayer, W. See Roedig, A. 1851
- Mayer, W. See Wünsche, Ch. 3407
- Mazur, Y. See Nussim, M. 5337
- Mazur, Y. See Permutti, V. 5425
- McCormick, A. See Appleton, R. A. 633
- McCrinkle, R. See Chakrabartty, T. 1503
- McCrinkle, R. See Connolly, J. D. 1489, 1497, 1507
- McCrinkle, R. See Harris, M. 1517
- McCrinkle, R. See Henderson, R. 1525
- McDaniel, R. S. See Akhtar, M. H. 3899
- McEntee, Jr. T. E. See Shapiro, R. H. 2809
- McFadden, W. H. See Burkhardt, H. J. 1225

- McLay, G. W.** See **Brown, H. L.** 4565
McMillan, I. See **Dunn, A. R.** 2985
McOmie, J. F. W., Watts, M. L. and West, D. E.
 Demethylation of aryl methyl ethers by boron
 tribromide. 2289
Mechoulam, R., Ben-Zvi, Z. and Gaoni, Y.
 Hashish—XIII. On the nature of the beam
 test. 5615
**Mehta, G., Chetty, G. L., Nayak, U. R. and
 Dev, Sukh.** Studies in sesquiterpenes—XXVIII.
 BF₃-induced rearrangement of eudesmane-
 and 7-epiudesmane-based 1,2-epoxides. 3775
Mehta, G., Nayak, U. R. and Dev, Sukh. XXXVI.
 Structure of ψ -longifolic acid. 4105
Meier, H., Heiss, J., Suhr, H. und Müller, Eu.
 Energetische Untersuchungen zum Mills-
 Nixon-Effekt Ionisierungsenergien von Benzol-
 molekülen mit Ankondensierten Gesättigten
 Ringen. 2307
Melera, A. See **Henderson, R.** 1525
Menger, F. M. and Brock, H. T. On the general
 base-general acid mechanism for α -chymo-
 trypsin action. 3453
Merlini, L. See **Cardillo, G.** 497, 4825
Metler, T., Uchida, A. and Miller, S. I. Syntheses
 with diacetylenic ketones. 5-Membered rings
 by anti-Michael addition. 4285
Meyer, A. Y. A study of condensed cyclobuta-
 dienes by a variable-beta Hückel scheme. 6215
Meyer, J. D. See **Zoltewicz, J. A.** 2269
**Meyer, W. L., Huffman, R. W. and Schroeder,
 P. G.** Diterpenoid total synthesis, an A \rightarrow B \rightarrow
 approach—VI. 10-Cyano-12-hydroxy-7-oxo-
 17-norpodocarpa-5,8,11,13-tetraene, a model
 for tricyclic C-aromatic diterpenoids. 5959
Michell, A. J. Infrared spectra of some O-methyl
 derivatives of glucose and xylose. 4021
Mihai, Gh. See **Suciu, N.** 33, 37
**Mihailović, M. Lj., Čeković, Ž., Andrejević, V.,
 Matić, R. and Jeremić, D.** The reaction of lead
 tetraacetate with alicyclic alcohols—I. Cyclo-
 alkanols. 4947
**Mihailović, M. Lj., Jakovljević, M., Trifunović,
 V., Vukov, R. and Čeković, Ž.** Intramolecular
 cyclic ether formation versus β -fragmentation
 in the reaction of saturated aliphatic alcohols
 with lead tetraacetate. 6959
Mijs, W. J. See **Vollbracht, L.** 6265
Miller, M. W. The structure of terremutin. 4839
Miller, S. J. See **Metler, T.** 4285
Milne, G. W. A. See **Axenrod, T.** 5775
Minstein, I. M. See **Zaretskii, V. I.** 2327
**Minamida, I., Ikeda, Y., Uneyama, K., Tagaki, W.
 and Oae, S.** Acid dissociation, UV spectra and
 hydrolyses of several α -mercapto- and α -
 alkoxyacetic acids and their methyl esters. 5293
Minamida, I. See **Oae, S.** 5283
Minamida, I. See **Uneyama, K.** 5271
Minoli, G. See **Desimoni, G.** 4907
Mitchell, R. H. and Sondheimer, F. Unsaturated
 macrocyclic compounds—LII. The synthesis of
 1,8-diethynyl-naphthalene and its oxidation to
 a conjugated fourteen-membered ring system.
 1397
Mitra, M. N. See **Banerjee, S. K.** 6459
Mitsuhashi, H., Shimizu, Y. and Kawahara, N.
 Studies on C-Nor-D-homosteroids—VIII. C-
 Nor-D-homo-rearrangement of cholanic acid
 and its derivatives. 2789
Mitsuhashi, H. See **Shimizu, Y.** 4143, 4207
Mitsui, R. See **Kotera, K.** 2463
Miyamoto, T. See **Sawa, Y. K.** 261
Miyazaki, S. See **Kotera, K.** 1727, 3681, 5677
Mizuta, E. See **Ochiai, M.** 5861
Modena, G. See **Marchese, G.** 663
Möhrle, H., Karl, Chr. und Scheidegger, U. Zur
 Konfiguration und Konstellation isomerer
 1-Hydroxychinolizidin-derivate. 6813
Möhrle, H. See **Baumann, H.** 589
Molodtsov, N. V. See **Kochetkov, N. K.** 5587
Mondelli, R. See **Cardillo, G.** 497
Mondelli, R. See **Piozzi, F.** 1119, 4073
Moon, B. J. See **Dyke, S. F.** 1467
Moon, B. J. See **Sainsbury, M.** 6695
Mooney, E. F. See **Castle, M. D.** 5457
Moore, R. E. See **Singh, I.** 2969, 6053
Mori, K. and Matsui, M. Diterpenoid total syn-
 thesis—VIII. (\pm)-Kaur-16-en-19-oic acid, (\pm)-
 kaur-16-en-19-ol, (\pm)-monogynol and some
 oxygenated kauranes. 3095
Mori, K., Matsui, M. and Fujisawa, N. IX.
 Lactones of podocarpane and kaurane series.
 3113
Mori, K. and Matsui, M. XI. (\pm)-4-Epidehydro-
 abietic acid (callitrisic acid). 6573
Mori, K. and Matsui, M. Synthesis of compounds
 with juvenile hormone activity—I. (\pm)-
 Juvabione (methyl (\pm)-todomatuate). 3127
Mori, T. See **Nozaki, H.** 1821
Mori, Y. See **Masamune, T.** 3461
Morimoto, T. See **Ogata, Y.** 4057
Morita, A. See **Furuya, Y.** 2367
Morita, K. See **Ochiai, M.** 5731, 5861
Moritani, I. See **Fujiwara, Y.** 4819
Moriuti, S. See **Nozaki, H.** 3655
Moroe, M. See **Yamakawa, K.** 3615
Moss, R. A. and Shulman, F. C. The preparation
 and some reactions of cyclopropyldiazo-
 methane and cyclopropylmethyl diazotate. 2881
Motomura, M. See **Kotera, K.** 1727
Mühlstädt, M., Herrmann, M. und Zschunke, A.
 Stereochemische Zuordnung in der Pinanreihe.
 1611
**Mühlstädt, M., van Phiet, H., Graefe, J. and
 Frischleder, H.** Die Reaktion von Δ^3 -Caren
 mit Dibromcarben synthese und struktur
 von *trans*-1,4,4-trimethyltricyclo[5.1.0.0^{3,5}]-
 Octanen. 6075
Mühlstädt, M. See **Borsdorf, R.** 65
Mühlstädt, M. See **Mann, G.** 3607, 6941
Mühlstädt, M. See **Zschunke, A.** 6469
Mukerjee, S. K., Saroja, T. and Seshadri, T. R.
 The structure of exostemin and synthesis of
 some related 4-phenyl coumarins. 6527

- Mukhamadaliev, N. See Cheburkov, Yu. A. 1341
 Mukherjee, D. K. See Chakrabarti, P. 1107
 Mukherjee, J. See Sengupta, P. 6259
 Mukherjee, T. K. Electron affinities of polynuclear acceptors. Nitro derivatives of fluoren- Δ^9, α -malononitrile. 721
 Mukherji, S. M., Dabas, K. S. and Sharma, K. S. Polynuclear aromatic hydrocarbons—XI. Chrysene derivatives. 4373
 Muljani, Z. See Tilak, B. D. 949
 Mullen, A. See Clar, E. 6719
 Müller, E. See Rieker, A. 103
 Müller, Eu. See Meier, H. 2307
 Müller, R. See Mann, G. 6941
 Mummenhoff, P. See Claussen, U. 2897
 Munshi, J. F. and Joullié, M. M. Reduced quinolines and quinolinium compounds—I. Reduction of quinoline analogs of model compounds for coenzyme I. 1923
 Murae, T., Tanahashi, Y. and Takahashi, T. 5,6-Dimethoxy-2-isopropenylbenzofuran from *Ligularia stenocephala* Matsum. Et Koidz. 2177
 Murai, A. See Mesamune, T. 3461
 Murray, R. W., Youssefeyeh, R. D., Williams, G. J. and Story, P. R. Ozonolysis. Concentration and solvent effects. 4347
 Murthy, A. S. N. See Davis, R. E. 4595
 Musgrave, W. K. R. See Whambers, R. D. 877, 5633
 Mustafa, R., Sidky, M. M., Zayed, S. M. A. D. and Abdo, W. M. Organophosphorus compounds—VIII. The reaction of alkyl phosphites and diphenylphosphinodithioic acid with 2-benzylidene-3(2*H*)-thianaphthenone-1,1-dioxides. 4725
 Muthukumaraswamy, N. See Govindachari, T. R. 753
 Muto, S. See Sato, T. 5557
 Nagabhushanam, M. See Ramirez, F. 1785
 Nagai, T., Namikoshi, H. and Tokura, N. The reactions of 1,4-bis[α -diazobenzyl]benzene with sulfur dioxide. 3267
 Nagakura, S. See Yamaoka, T. 6203
 Nagase, O. See Shimizu, M. 5241
 Nagashima, K. See Tsuji, N. 4233
 Naidoo, B. See Jackson, A. H. 6119
 Naito, T. Studies on isothiazoles—V. Mass spectra on 3-phenylisothiazoles. 6237
 Nakagawa, Y. See Yasuda, F. 6535
 Nakamura, M. See Ishii, H. 625
 Nakamura, S. See Yamada, K. 199, 1267
 Nakane, R. See Kotera, K. 759
 Nakashima, R. See Matsuura, T. 6149, 6601
 Nakashima, T. See Shioiri, T. 4177
 Nakatani, M. See Kamikawa, T. 2091
 Namikoshi, H. See Nagai, T. 3267
 Naso, F. See Marchese, G. 663
 Natori, S. See Nishimoto, K. 735
 Naya, K., Takagi, I., Kawaguchi, Y., Asada, Y., Hirose, Y. and Shinoda, N. The structure of fukinone, a constituent of *Petasites japonicus* Maxim. 5871
 Nayak, U. R. and Dev, S. Studies in sesquiterpenes—XXXV. Longicyclene, the first tetracyclic sesquiterpene. 4099
 Nayak, U. R. See Mehta, G. 3775, 4105
 Necsoiu, I. See Rentea, C. N. 4667
 Neidleman, S. L. See Levine, S. D. 2979
 Nel, W. See Anderson, L. A. P. 1687
 Nenitzescu, C. D. See Rentea, C. N. 4667
 Nestadt, B. and van Es, T. Derivatives of 5-deoxy-5-thio-D-xylose. 1973
 Neville, G. A., Nigam, I. C. and Holmes, J. L. Identification of ketones in *Cyperus* NMR and mass spectral examination of the 2,4-dinitrophenylhydrazones. 3891
 Newton, R. F. See Crabb, T. A. 1997, 2485, 4423, 6327
 Ney, K. H. and Polzhofer, K. P. Synthese von Casein-peptiden nach der Merrifield-methode. L-Val-L-Asp-L-Glu-L-Glu-L-Glu-D, L-Ser-L-Ile-L-Ala-L-Met-L-Glu-L-Lys. 6619
 Nibbering, N. M. M. and de Boer, Th. J. Mass spectrometry of aralkyl compounds with a functional group—III. Specific exchange between some hydrogen atoms in the molecular ion of λ -phenylpropanol. 1415
 Nibbering, N. M. M. and de Boer, Th. J.—IV. Specific exchange between the α - and *ortho*-hydrogen atoms in the molecular ion of γ -phenylpropylbromide. 1427
 Nibbering, N. M. M. and de Boer, Th. J.—V. The cyanotropylium ion from benzylcyanide. 1435
 Nicoletti, R. and Forcellese, M. L. The structure of incensole-oxide. 6519
 Niculescu-Majewska, H. See Trestianu, A. 2499
 Nigam, I. C. See Neville, G. A. 3891
 Niida, T. See Inouye, S. 2125
 Nikolajewski, H. E., Dähne, S., Leupold, D. und Hirsch, B. Neue Polymethinsynthesen—III. Darstellung von mono-*cis* und di-*cis*-fixierten cyaninen. 6685
 Nishimoto, K., Ito, M., Natori, S. and Ohmoto, T. The structures of arundoin, cyclindrin and fernenol Triterpenoids of fernane and arborane groups of *Imperata cylindrica* var. *koenigii*. 735
 Nishimura, J. See Furukawa, J. 53
 Nolde, C., Lawesson, S.-O., Bowie, J. H. and Cooks, R. G. The mass spectra of substituted imides. Skeletal rearrangements on electron impact. 1051
 Nollet, A. J. H. See Wiedhaup, K. 771
 Nomoto, K. See Hikino, H. 4895
 Nonhebel, D. C. NMR spectra of intramolecularly hydrogen-bonded compounds—I. β -Diketones, *o*-hydroxyaldehydes, and *o*-hydroxyketones. 1869
 Nonhebel, D. C. See Brown, N. M. D. 5655
 Norin, T. See Baggaley, K. R. 3399
 Norton, K. See Cross, B. E. 231
 Novak, L. See Szantay, Cs. 4713

- Novelli, A., de Varela, A. P. G. V. and Bonafede, J. D.** The action of substituted formamides on phenylformylacetonitrile—I. 2481
- Noyori, R.** See **Nozaki, H.** 1821, 2183, 2193, 3655
- Nozaki, H., Fujita, S. and Noyori, R.** The photochemistry of 1,2,3-triphenylaziridine. 2193
- Nozaki, H., Kurita, M., Mori, T. and Noyori, R.** Photochemical behaviour of enolic β -diketones towards cycloolefins. 1821
- Nozaki, H., Otani, I., Noyori, R. and Kawanisi, M.** Photochemical reactions of *trans*-anethole. 2183
- Nozaki, H., Takau, M., Hayasi, Y. and Kondô, K.** Reaction of sulphonium ylides with sulphonyl chlorides. 6563
- Nozaki, H., Takaya, H., Moriuti, S. and Noyori, R.** Homogeneous catalysis in the decomposition of diazo compounds by copper chelates. Asymmetric carbenoid reactions. 3655
- Nozaki, H., Yamaguti, T., Ueda, S. and Kondô, K.** The reaction of isophorone dienamines with certain dienophiles. 1445
- Nozaki, H.** See **Kawanisi, M.** 6557
- Nussim, M. and Mazur, Y.** Synthesis and conformational analysis of A-homo-B-nor and A-nor-B-homo steroids. 5337
- Oae, S., Tagaki, W., Uneyama, K. and Minamida, I.** 3d-Orbital resonance in divalent sulphide—X. The effects of α -aryl and α -alkylmercapto groups on the rate of decarboxylation of α -substituted carboxylic acids. 5283
- Oae, S. and Yano, Y.** XIII. The E2 reaction of *p*-substituted- β -phenylmercapto chlorides and the corresponding oxygen analogues. 5721
- Oae, S.** See **Minamida, I.** 5293
- Oae, S.** See **Uneyama, K.** 5271
- Oberc, M.** See **Levine, S. D.** 2979
- Ochiai, M., Marumoto, R., Kobayashi, S., Shimazu, H. and Morita, K.** A facile one-step synthesis of adenine. 5731
- Ochiai, M., Mizuta, E., Asahi, Y. and Morita, K.** A novel photo-induced methylation of pyrimidines and condensed pyrimidines. 5861
- Oda, R., Hayashi, Y. and Takai, T.** The reaction of dichloromaleimides with amines. 4051
- Oda, R.** See **Shono, T.** 421, 729
- Oehlschlager, A. C.** See **Akhtar, M. H.** 3899
- Oeltmann, T. N.** See **Pelletier, S. W.** 2019
- Ogata, M. and Kanô, H.** Organic photochemical reactions—III. Conversion of 2-(N-substituted anilino)-1,4-naphthoquinones into 5-benzo[c]phenoxazone derivatives. 3725
- Ogata, R. T.** See **Singh, I.** 2969, 6053
- Ogata, Y., Kawasaki, A. and Sugiura, F.** Kinetics and mechanism of the Duff reaction. 5001
- Ogata, Y., Kosugi, Y. and Morimoto, T.** Kinetics of the cupric salt-catalysed autoxidation of L-ascorbic acid in aqueous solutions. 4057
- Ogata, Y., Kuriyama, Y. and Sawaki, Y.** Decomposition of peracetic acid in a mixture of acetic anhydride, acetic and nitric acids. 6387
- Ogata, Y. and Sakanishi, K.** Kinetics of the catalytic vapor-phase ammoxidation of toluene over chromium oxide. 4881
- Ogata, Y., Sawaki, Y. and Kuriyama, Y.** The reaction of trialkylamine with nitric acid in a mixture of acetic acid and acetic anhydride. 3425
- Ogata, Y., Takagi, K. and Izawa, Y.** The photo-induced reactions of benzyl methyl ketone. 1617
- Ogata, Y.** See **Sakanishi, K.** 6277
- Ogata, Y.** See **Tomioka, H.** 5739
- Ognyanov, I., Pyuskyulev, B., Kompiš, I., Sticzay, T., Spitteller, G., Shamma, M. and Shine, R. J.** Alkaloid from *Vinca herbacea* W.K.—X. The structures and stereochemistry of majdine and isomajdine. 4641
- Ogura, K.** See **Matsuura, T.** 6157, 6167
- Ohmoto, T.** See **Nishimoto, K.** 735
- Ohne, A.** See **Davis, R. E.** 2063
- Ohno, M.** See **Inouye, Y.** 2907
- Okabe, K.** See **Sawa, Y. K.** 261
- Okada, J.** See **Uyeo, S.** 2859
- Okada, T.** See **Kawanisi, M.** 6557
- Okada, T.** See **Kotera, K.** 1727, 3681, 5677, 6177
- Okanishi, T.** See **Yasuda, F.** 6535
- Ôki, M. and Iwamura, H.** Correlation of kinetic studies by NMR and other methods. Rates of inversion of doubly-bridged biphenyls by NMR. 2377
- Ôki, M., Iwamura, H., Onoda, T. and Iwamura, M.** Intramolecular interaction between a hydroxyl group and π -electrons—XXII. Relationship between conformation and frequency shift by intramolecular O—H . . . π interaction in olefinic alcohols. 1905
- Oku, A.** See **Shono, T.** 421
- Okuda, T. and Konishi, K.** Structure and some reactions of coriose 6907
- de Oliveira, G. G.** See **Gottlieb, O. R.** 1601
- Oliver, R. W. A., Rashman, R. M. and Somerville, A. W.** The synthesis and spectroscopic properties of some halogeno-1,2-naphthoquinones. 4067
- Oliveto, E. P.** See **Hajos, Z. G.** 2039
- Omura, K. and Matsuura, T.** Photo-induced reactions—IX. The hydroxylation of phenols by the photo-decomposition of hydrogen peroxide in aqueous media. 3475
- Omura, K.** See **Matsuura, T.** 6149
- Onoda, T.** See **Ôki, M.** 1905
- Oosterhoff, L. J.** See **van der Lugt, W. Th. A. M.** 4941
- Orienti, M.** See **Cencioni, R.** 151
- Orvis, R. L.** See **van Tamelen, E. E.** 687
- Ôsawa, E.** See **Joris, L.** 4759
- Osborne, C. E.** See **Karabatsos, G. J.** 3361
- Osman, Maged A.** See **Hopff, H.** 2205, 3887
- Ossip, P. S.** See **Haake, P.** 565

- Ostrogovich, G., Bacalogiu, R. and Fliegl, E. The nucleophilic substitution reactions in s-triazinic systems—I. Kinetics and mechanism of alkaline hydrolysis of the melamine. 2701
- O'Sullivan, A. M. See Donnelly, B. J. 2617
- Otani, I. See Nozaki, H. 2183
- Otfiman, A. A. See Qasseem, M. A. 4535
- Ottinger, R. See Ransbotyn, G. 3647
- Otto, A. See Dorn, H. 6809
- Otoni da Silva Pereira, M. See Gottlieb, O. R. 1601
- Ouissou, G. See Lhomme, J. 3167, 3177, 3201
- Overton, K. H. See Chakrabartty, T. 1503
- Overton, K. H. See Connolly, J. D. 1489, 1497, 1507
- Overton, K. H. See Harris, M. 1517
- Overton, K. H. See Henderson, R. 1525
- Paal, G. See Schiele, C. 5029, 5037
- Pachler, K. G. R. See Anderson, L. A. P. 1687
- Pachler, K. G. R. See de Kock, W. T. 1701, 6037, 6045
- Padeiskaya, E. N. See Preobrazhenskaya, M. N. 6131
- Padma, N. See Balasubramanian, M. 5395
- Pai, B. R. See Govindachari, T. R. 753, 7027
- Pakrashi, S. C. and Bhattacharyya, J. Studies on Indian medicinal plants—XIV. Interrelationships among the quinazoline alkaloids from *Glycosmis arborea* (Roxb.) DC. 1
- Pala, G., Crescenzi, E. and Bietti, G. A new synthesis of 4,4'-dihydroxydiphenyl(2-pyridyl)-methane. 619
- Palfreyman, M. N. See Dyke, S. F. 6703
- Palkos, L. See Farkas, L. 4213
- Pandey, R. C. and Dev, Sukh. Studies in sesquiterpenes—XXX. Synthesis of *ar*-himachalene and himachalanes. 3829
- Pandit, U. K. See Speckamp, W. N. 5881, 5893
- Pansare, V. S. and Dev, Sukh. Studies in sesquiterpenes—XXVII. Differential Kuhn-Roth C-methyl estimation. 3767
- Paoloni, L. and Cignitti, M. Electronic structure and chemical properties of 1,2,4-oxadiazole, bis-1,2,4-oxadiazoles and other derivatives. 485
- Papernaja, I. B. See Severina, L. O. 2145
- Papernaja, I. B. See Zaretskii, V. I. 2327
- Paquette, L. A. and Wise, M. L. The fate of transannularly-disposed diazo and keto functions in cyclododecanes. 2937
- Paraschiv, M. See Barabas, A. 1133
- Parello, J. et Lusinchi, X. Alcaloides steroidiques—LXXV. Etude dichroïque du chromophore nitrone. 6747
- Parrish, D. R. See Hajos, Z. G. 2039
- Parthasarathy, M. R. See Bahl, C. P. 6231
- Parthasarathy, P. C. See Govindachari, T. R. 7077
- Parthasarathy, R. See Luche, J. L. 1275
- Parulkar, A. See Casy, A. F. 3031
- Patwardhan, A. V. See Ramirez, F. 2275
- Payne, T. G. See Coates, P. 795
- Pelletier, S. W. and Oeltmann, T. N. NMR studies of diterpene alkaloids. 2019
- Le Perchee, P. See Bloch, R. 5971
- Permutti, V., Danieli, N. and Mazur, Y. Desulphurization of the thioketal of testosterone acetate with deactivated Raney nickel. 5425
- Pershin, G. N. See Preobrazhenskaya, M. N. 6131
- Perst, H. und Dimroth, K. Photo-Isomerisierung von 2,4,6-triphenyl-*o*-chinolestern. 5385
- Petrow, V. See Burn, D. 4033
- Petry, R. C. See Reed, Jr., S. F. 5089
- Pfeffer, P. See Tedeschi, E. 4573
- van Phiet, H. See Mühlstädt, M. 6075
- Phillipson, J. D. See Trager, W. F. 523, 2681
- Piatk, D. M. See Snatzke, G. 2899
- Piazza, G., Sorriso, S. and Foffani, A. Dipole moments and molecular conformation in aliphatic diazoketones. 4751
- Pifferi, G., Consonni, P. and Testa, E. 1H-2,3-Benzoxazine and derivatives—III. 4923
- Pilot, J. F. See Ramirez, F. 3735
- Pincock, J. See Buncel, E. 6671
- Piozzi, F., Fuganti, C., Mondelli, R. and Ceriotti, G. Narciclasine and narciprimine. 1119
- Piozzi, F., Venturella, P., Bellino, A. and Mondelli, R. Diterpenes from *Sideritis sicula* Ucria. 4073
- Pirola, O. See Rossi, S. 6395
- Plevey, R. G. See Castle, M. D. 5457
- Pocar, D., Stradi, R., Dalla Croce, P., Bianchetti, G. and Gallo, G. Studies in the enamine field—XXX. Autocondensation products of 2-(methylamino)-propene: 1-(2,2,6,6-tetra-methyl-4-oxo-cyclohexyl)-5,5-dimethylcyclohexene-3-one. 6741
- Pocar, D. See Stradi, R. 6735
- Pocha, P. See Casy, A. F. 3031
- Pojarlieva, T. See Jones, R. Alan. 2013
- Pollak, A., Stanovnik, B. and Tisler, M. Synthesis of pyridazine derivatives—XVI. Methyl substituted imidazo(1,2-b)pyridazines by synthesis and homolytic methylation. 2623
- Polonsky, J. See Hollands, R. 1633
- Polzhofer, K. P. See Ney, K. H. 6619
- Popov, S. S. See Marekov, N. L. 1323
- Pracejus, H. See Ripperger, H. 99
- Pragst, F. See Jugelt, W. 5123
- Prakash, D. See Govindachari, T. R. 6411
- Pratt, A. D. See Entwistle, N. 3949
- du Preez, I. C. See de Kock, W. T. 6037
- Preobrazhenskaya, M. N., Balashova, E. G., Turchin, K. F., Padeiskaya, E. N., Uvarova, N. V., Pershin, G. N. and Suvurov, N. N. Total synthesis of antibiotic indolmycin and its stereoisomers. 6131
- Prokofiev, E. P. See Yanovskaya, L. A. 4677
- Prox, A. Massenspektrometrische Untersuchung einiger natürlicher C-Glukosyl-Verbindungen. 3697
- Puar, M. S. and Grunwald, E. Substituent effects on the rate of acid-catalyzed proton exchange of phenol in methanol. 2603

Author index

- Pucknat, J. See Altman, J. 975
- Pujol, L. Structure électronique de dérivés hétérocycliques azotes. Méthode LCAO améliorée-2. Azines monocycliques. 3635
- Pyke, D. A. See Chambers, R. D. 2783
- Pyyskyulev, B. See Ognyanov, I. 4641
- Qassem, M. A., Rogers, N. A. J. and Othman, A. A. Dihydroaromatic compounds in the Diels-Alder reaction—II. A model for veatchine synthesis. 4535
- Quijano, L. See Romo, J. 6087
- Quinkert, G. See Budzikiwicz, H. 6797
- Quirk, R. P. See Curtin, D. Y. 5791
- Rabinovitz, M. See Bergmann, E. D. 1289
- Rachlin, A. I. See Brossi, A. 4277
- Radhakrishnamurti, P. S. and Visvanathan, T. P. A kinetic study of consecutive second order reactions. Ester cleavages with hydrobromic acid. 5645
- von Ragué Schleyer, P. See Joris, L. 4759, 5991
- Rall, G. J. H. See Smalberger, T. M. 6417
- Ramey, K. C. See Jefford, C. W. 2927
- Ramirez, F., Bigler, A. J. and Smith, C. P. Phosphoranylations. Preparation of 5-membered cyclic oxyphosphoranes and spirooxyphosphoranes from the reaction of penta-phenoxyphosphorane with catechol. 5041
- Ramirez, F., Kugler, H. J. and Smith, C. P. Nucleophilic 1,2-additions to the carbonyl group of *p*-quinones. Hydrolysis and alcoholysis of the pentaoxyphosphoranes derived from the condensation of α -diketones with *p*-quinones by means of trialkyl phosphites. 1931
- Ramirez, F., Kugler, H. J. and Smith, C. P. Trialkyl phosphites as reagents in the carbon-carbon condensations of α -diketones with α,β -unsaturated aldehydes. The hydrolyses of 5-membered cyclic pentaoxyphosphoranes and phosphate esters. 3153
- Ramirez, F., Nagabushanam, M. and Smith, C. P. Spirooxyphosphoranes. 1785
- Ramirez, F., Patwardhan, A. V., Kugler, H. J. and Smith, C. P. Triaminooxyphosphonium dipolar ions and triaminodioxy phosphoranes from the reaction of triaminophosphines with α -diketones. Demonstration of the co-existence of 4-coordinated and 5-coordinated phosphorus in solution. P^{31} NMR spectra. 2275
- Ramirez, F., Pilot, J. F. and Smith, C. P. Compounds with pentavalent phosphorus and with tetravalent phosphorus from the reactions of trivalent phosphorus compounds with α,β -unsaturated ketones. Dipolar ions from the reactions of tertiary phosphines with 3-benzylidene-2,4-pentanedione. 3735
- Rampal, A. L. See Kessar, S. V. 887, 893, 899, 905
- de Rango, C. See Luche, J. L. 1275
- Ransbotyn, G., Celotti, J. C., Ottinger, R. Reisse, J. et Chiurdoglu, G. Analyse conformationnelle par résonance nucléaire magnétique—V. Grandeurs thermodynamiques régissant l'équilibre conformationnel de la cyclohexylamine. 3647
- Rao, A. S. See Verbit, L. 5839
- Rao, V. S. R. See Sundararajan, P. R. 289
- Rappe, C. and Sachs, W. H. Enolization of ketones—VI. The base-catalyzed deuteration of some cyclic ketones. 6287
- Rasberger, M. See Zbiral, E. 2419
- Rashman, R. M. See Oliver, R. W. A. 4067
- Readhead, M. J. See Lewis, J. W. 1829
- Reece, C. A., Rodin, J. O., Brownlee, R. G., Duncan, W. G. and Silverstein, R. M. Synthesis of the principal components of the sex attractant from male *ips confusus* Frass: 2-methyl-6-methylene-7-octen-4-ol, 2-methyl-6-methylene-2,7-octadien-4-ol, and (+)-*cis*-verbenol. 4249
- Reed, Jr. S. F. and Petry, R. C. Radical reactions of tetrafluorohydrazine saturated hydrocarbons and ethers. 5089
- Reese, C. B. See Fromageot, H. P. M. 3533
- Reese, C. B. See Griffin, B. E. 639, 2537
- Reggiani, M. See Casu, B. 803
- Reid, D. H. See Zahradnik, R. 3001
- Reisse, J. See Ransbotyn, G. 3647
- Renard, M. See Kergomard, A. 6643
- Reñtea, C. N., Reñtea, M., Necşoiu, I. and Nenitzescu, C. D. Étard reaction—VI. Oxidation of *cis* and *trans*-decaline with chromyl chloride. 4667
- Reñtea, M. See Reñtea, C. N. 4667
- Reshef, N. See Altman, J. 975
- Rensch, W. and Mattison, P. Conformations of the pulegone oxides and the question of octant rule reversal. 4933
- Reyes, J. See Joseph-Nathan, P. 4007
- Ricard, M. See Rigaudy, J. 3241
- Richards, J. L., Tarbell, D. S. and Hoffmeister, E. H. Hindered rotation in dithiocarbamoyl compounds by NMR measurements. Alkylation of sulfur compounds by trialkyloxonium ions. 6485
- Richards, K. E. See Coxon, J. M. 1193
- Ricroch, N. See Hollands, R. 1633
- Rieker, A., Kaufmann, H., Brück, D., Workman, R. und Müller, E. Synthese höhermolekularer Verbindungen durch Phenoldehydrierung—IV. Zum Verlauf der Dehydrierung sterisch gehinderter coclaurin-derivate. 103
- Rieker, A. und Kessler, H. Zur Kenntnis des chinoiden Zustandes—IX. Untersuchungen zur innermolekularen Beweglichkeit in para-Chinonmethiden und in den Entsprechenden Phenoxyylvorstufen. 5133
- Rigaudy, J. et Ricard, M. Double addition diénique du dicyanacétylène au diphenyl-9,10-anthracène. 3241
- Riggs, N. V. See Bamberg, J. R. 3329
- Ríos, T. See Romo, J. 6087

- Ripperger, H. und Praceus, H. Untersuchungen zur optischen Rotationsdispersion und zum Circular dichroismus—IX. Zur absoluten Konfiguration einiger Piperidinverbindungen. Beiträge α -Ständiger äquatorialer und axialer Methylgruppen zum Cotton-effekt von N-Chlorpiperidinen. 99
- Risaliti, A., Forchiassini, M. and Valentin, E. Vinylamines—VIII. The reaction of cyclohexanone enamines with 1- and 2-nitropropene. 1889
- Rittersdorf, W. and Cramer, F. Cyclization of Nerol and Linalool on solvolysis of their phosphate esters. 43
- Robinson, C. H. See Ziffer, H. 5803
- Robinson, D. L. and Theobald, D. W. Sesquiterpenoids—VII. The synthesis of some 2-ketoadesmanes. 5227
- Roche, E. B. See Kier, L. B. A molecular orbital study of the reactions of sydnones. 1673
- Rodda, H. J. See Bowie, J. H. 3965
- Rodin, J. O. See Reece, C. A. 4249
- Rodriguez, H. R. See Shamma, M. 6583
- Rodriguez-Hahn, L., Guzman, A. and Romo, J. The constituents of *Cacalia decomposita* A. Gray—IV. Structure of decomposition. 477
- Roedig, A., Grohe, K. and Mayer, W. Synthese von Pyridononen-(2,6) aus Trichloracrylnitril und Alkylmalonestern. 1851
- Roest, B. C., Veenland, J. U., de Boer, Th. J., Lodewijk, E. and de Leeuw, J. Cyclization of geraniolene and competitive cyclization-cyclialkylation of some phenyl derivatives. 2155
- Rogers, N. A. J. See Qasseem, M. A. 4535
- Roman, M. See Barabas, A. 1133
- Romas, E. See Barabas, A. 1133
- Romers, C. See Altona, C. 13
- Romo, J., Rios, T. and Quijano, L. Ligustrin, a guainolide isolated from *Eupatorium ligustrinum* DC. 6087
- Romo, J., Romo de Vivar, A. and Diaz, E. The guaianolides of *Ambrosia cumanensis* HBK. The structures of cumambrins A and B. 5625
- Romo, J. See Rodriguez-Hahn, L. 477
- Romo de Vivar, A. See Romo, J. 5625
- Ross, W. F. See de Kock, W. T. 6037
- Rossi, S., Pirola, O. and Selva, F. Synthesis of 4-keto-1*H*,4,5-dihydro-1,2,5-benzotriazepines and their chemical behaviour. 6395
- Rossiter, W. J. See Bertelli, D. J. 609
- Rouessac, F. See Bloch, R. 5971
- Rowe, J. W. See Uyeo, S. 2859
- Roy, S. K. See Gallup, G. A. 5769
- Rubalcava, H. E. See Dorchal, R. O. 5649
- Rücker, G. See Schulte, K. E. 1899
- Rudinger, J. See Gut, V. 6351
- Sachs, A. See Wünsche, Ch. 3407
- Sachs, W. H. See Rappe, C. 6287
- Saegusa, T., Taka-Ishi, N. and Fujii, H. Reactions of carbonyl compound with isocyanide. 3795
- Saettone, M. F. See Marsili, A. 4993
- Sainsbury, M., Dyke, S. F., Brown, D. W. and Lugton, W. G. D. 1,2-Dihydroisoquinolines—VI. The benzylation of isoquinoline derivatives. 427
- Sainsbury, M., Brown, D. W., Dyke, S. F., Kinsman, R. G. and Moon, B. J.—VIII. Rearrangement—II. 6695
- Sainsbury, M. See Dyke, S. F. 1467
- Sainsbury, M. See Dyke, S. F. 6703
- Saito, I. See Matsuura, T. 6609
- Sakabe, N. See Irikawa, H. 5691
- Sakanishi, K. and Ogata, Y. Kinetics of the catalytic vapor-phase ammoxidation of ethylbenzene over chromium oxide. 6277
- Sakanishi, K. See Ogata, Y. 4881
- Samiuzzaman. See Beg, M. Arshad A. 191
- Sandermann, W. See Bruns, K. 1357
- Sandris, C. Sur l'isomérisation géométrique d'acides α,β -éthyléniques—I. Contraintes stériques des acides α -et β -méthylcinnamiques. 3569
- Sandris, C.—II. Constantes de dissociation d'acides cinnamiques α - et β -substitués. 3583
- Sandris, C.—III. Synthèse stéréospécifique de l'acide *cis*-cinnamique. 3589
- Sanigök, Ü. See Clar, E. 2817
- Santos, E. See Crabbé, P. 4299, 4315
- Sarel, S. See Breuer, E. 6339
- Saroja, T. See Mukerjee, S. K. 6527
- Sarpal, P. D. See Jain, A. C. 3237
- Sato, E. See Kanaoka, Y. 2591
- Sato, T., Akabori, S., Muto, S. and Hata, K. Medium-sized cyclophanes—VIII. Di-, tetra- and hexamethyl[2.2]metacyclophanes. 5557
- Saunders, B. C. See Holland, V. R. 585
- Sawa, Y. K., Horiuchi, M. and Tanaka, K. Elimination of the 4-hydroxyl group of the alkaloids related to morphine—IX. Synthesis of 3-methoxy-N-methylisomorphinan derivatives. 255
- Sawa, Y. K., Okabe, K. and Miyamoto, T. X. Structure of the ketal derivatives prepared from 7-oxo-dihydrothebainone. 261
- Sawa, Y. K. and Tada, H. XI. Synthesis of (-)-14-hydroxy-3-methoxy-N-methylmorphinan derivatives. 6185
- Sawaki, Y. See Ogata, Y. 3425, 6387
- Sayo, H. and Masui, M. Controlled potential electrolysis—XIV. Electron spin resonance spectra of free radicals generated electrochemically from several aliphatic tertiary nitro compounds. 5075
- Sayo, H., Tsukitani, Y. and Masui, M. Controlled potentials electrolysis—XIII. Polarographic behaviour and controlled potential electrolyses in acetonitrile of several aliphatic tertiary nitro compounds. 1717
- Scartoni, V. See Marsili, A. 4993
- Scheckenbach, F. See Fahr, E. 1011
- Scheidegger, U. See Baumann, H. 589
- Scheidegger, U. See Möhrle, H. 6813

- Scheiner, P. The addition of aryl azides to unsaturated olefins. 349
- Scheiner, P. Triazoline photodecomposition. The preparation of aziridines. 2757
- Scheinmann, F. See Jackson, B. 3059
- Scheuer, P. J. See Gupta, K. C. 5831
- Scheuer, P. J. See Singh, I. 2969, 6053
- Schiele, C., Arnold, G., Kalinowski, H. O. und Hendriks, D. Verhalten von Dioxynaphthalinen bei der Umsetzung mit *N,N'*-Diphenylformamidin. 2293
- Schiele, C. and Staudacher, D. Zur Kondensation *N*-Methylierter methylsubstituierter Heteroaromaten mit aromatischen *o*-Hydroxyaldehyden. 471
- Schiele, C., Staudacher, D., Hendricks, D. und Arnold, G. Zur Darstellbarkeit von Spirobenzthiazolen und 6-Ring-*N*- und *O*-Heterocyclischer Spirane—I. 5017
- Schiele, C., Staudacher, D., Halfar, K. und Arnold, G.—II. 5023
- Schiele, C., Wilhelm, A., Hendricks, D., Stepec, M. und Paal, G. Über-*o*-Hydroxyarylvinylypyryliumsalze—I. 5029
- Schiele, C., Paal, G., Arnold, G. und Stepec, M.—II. 5037
- Schirrmann, J. P., Isard, A. et Weiss, F. Transpositions de structures a caractere diallylique—IV. Derives α, α' disubstitues de l'isobutene: Transpositions thermiques du méthylène-3 benzodioxépane-1,5. 6475
- Schlammann, J. L. M. A. See Geluk, H. W. 5361, 5369
- Schlittler, E. See Finch, N. 5421
- Schmidt, D. See Jugelt, W. 59
- Schmitte, P. See Kraus, W. 1537
- Schneider, G. See Schreiber, K. 73
- Schnoes, H. D., Smith, D. H., Burlingame, A. L., Jeffis, P. W. and Döpke, W. Mass spectra of Amaryllidaceae alkaloids. The lycorenine series, 2825
- Scholz, M. See Dietz, F. 6845
- Schooley, D. A. See Djerassi, C. 6913
- Schreiber, K., Schneider, G. und Sembdner, G. Gibberelline—XII. Zur Umlagerung von 8,15-epoxy-Gibberellinsäure. 73
- Schreiber, K. See Höhne, E. 4875
- Schreiber, K. See Tomko, J. 6839, 4865
- Schroeder, P. G. See Meyer, W. L. 5959
- Schroll, G. See Larsen, B. Sogaard. 5193
- Schroll, G. See Lawesson, S.-O. 1875
- Schulman, S. and Fernando, Q. Excited state prototropic equilibria of some quinolins. 1777
- Schulte, K. E., Henke, G. Rücker, G. und Foerster, S. Beitrag zur Biogenese des α -terthienyls. 1899
- Schulte-Frohlinde, D. See Gütten, H. 4393
- Schulz, K. See Budzikiewicz, H. 6797
- Schumacher, H. See Korte, F. 5601
- Schwang, H. See Giannotti, C. 2055
- Schwartz, I. L. See Gut, V. 6351
- Schwarz, J. C. P. See Chakrabartty, T. 1503
- Scoggins, M. W. See Weinberg, D. A. 5409
- Scott, F. L. See Spillane, W. J. 5011
- Seikel, M. K., Hostettler, F. D. and Johnson, D. B. Lignans of *Ulmus thomasi* heartwood—I. Thomasic acid. 1475
- Seki, S. See Kai, F. 415
- Selva, F. See Rossi, S. 6395
- Sembdner, G. See Schreiber, K. 73
- Sengupta, P., Chakraborty, A. K., Duffield, A. M., Durham, L. J. and Djerassi, C. Chemical investigation on *Putranjiva roxburghii*. The structure of a new triterpene, putranjivadiene. 1205
- Sengupta, P. and Mukherjee, J. Terpenoids and related compounds—XI. The structure of Roxburgholone, a new triterpenoid constituent of *Putranjiva roxburghii*. 6259
- Sepp, D. T. and Anderson, C. B. The remote effect of vicinal large groups on the anomeric equilibrium: 2-methoxy-*cis*- and -*trans*-5,6-dimethyltetrahydropyrans. 6873
- Sepp, D. T. See Anderson, C. B. 1707
- Serebryakov, E. P. See Zaretskii, V. I. 2327
- Servis, K. L., Borčić, S. and Sunko, D. E. Methyl- d_3 isotope effects and the origin of α -methyl substituent effects. 1247
- Seshadri, T. R. See Austin, P. W. 3247
- Seshadri, T. R. See Bahl, C. P. 6231
- Seshadri, T. R. See Jain, A. C. 3237
- Seshadri, T. R. See Mukerjee, S. K. 6527
- Severina, L. O., Torgov, I. V., Skrjabin, G. K., Wulfson, N. S., Zaretskii, V. I. and Papernaja, I. B. Transformation of cholic acid by the culture mycobacterium N 1210. 2145
- Shachidayatov, Ch. See Yanovskaya, L. A. 4677
- Shahak, I. See Bergmann, E. D. 6449
- Shamma, M. and Rodriguez, H. R. The synthesis of (\pm)-mesembrine. 6583
- Shamma, M. See Ognyanov, I. 4641
- Shannon, J. S. See Collin, P. J. 3069
- Shao, W. L. See Baddley, G. V. 6513
- Shapiro, R. H., McEntee, Jr. T. E. and Coffen, D. L. Mass spectra of bis-1,3-dithiolanes and bis-1,3-dithianes. Fragmentation mechanisms and deuterium isotope effects. 2809
- Shapiro, R. H., See Buchardt, O. 3139
- Shapkina, E. V. See Elyakov, G. B. 5483
- Sharma, K. S. See Mukherji, S. M. 4373
- Sharma, R. K. See Bhacca, N. S. 6319
- Shaw, M. A. See Cooks, R. G. 3289
- Shimazu, H. See Ochiai, M. 5731
- Shimizu, M., Nagase, O., Hosokawa, Y. and Tagawa, H. Chemical synthesis of coenzyme A analogs of a modified cysteamine moiety. 5241
- Shimizu, Y. and Mitsuhashi, H. Studies on C-Nor-D-homosteroids—IX. Solvolysis of 14 β -hydroxy-12 β -tosyloxysteroids. 4207
- Shimizu, Y. and Mitsuhashi, H. Studies on the components of asclepiadaceae plants—XXII. Structures of cynanchogenin and sarcostin. 4143
- Shimizu, Y. See Mitsuhashi, H. 2789

- Shine, R. J. See Ognyanov, I. 4641
- Shinoda, N. See Naya, K. 5871
- Shinozuka, M. See Tomoeda, M. 959
- Shiomi, T. and Yamada, S. Studies in the indole series—IV. The synthesis of the vobasine skeleton. 4159
- Shiomi, T., Nakashima, T. and Yamada, S.—V. The mass spectra of some vobasine-type compounds. 4177
- Shono, T., Oku, A. and Oda, R. Small ring compounds—XVI. Solvolysis of α -(*p*-substitutedphenyl)cyclopropylcarbonyl *p*-nitrobenzoate. 421
- Shono, T., Yochimura, T. and Oda, R.—VII. The methanolysis of *trans*- $\alpha, \alpha, \alpha', \alpha'$ -tetramethyl-1,2-cyclopropanedimethanol. 729
- Shulman, F. C. See Moss, R. A. 2881
- Sidky, M. M. See Mustafa, A. 4725
- Signor, A. and Bordignon, E. Reduction of 3,5-dinitro-2-pyridyl derivatives with sodium borohydride.—Part I—hydrolytic cleavage of N-terminal peptide bonds. 6995
- Silberman, H. See Collin, P. J. 3069
- Silverstein, R. M. See Reece, C. A. 4249
- Simolin, A. V. See Zaretskii, V. I. 2327
- Simonetta, M. See Beltrame, P. 3043
- Simons, B. K. See Bowie, J. H. 3965
- Singh, I., Moore, R. E., Chang, C. W. J., Ogata, R. T. and Scheuer, P. J. Spinochrome synthesis. 2969
- Singh, I., Ogata, R. T., Moore, R. E., Chang, C. W. J. and Scheuer, P. J. Electronic spectra of substituted naphthoquinones. 6053
- Singleton, D. M. See Kochi, J. K. 3503
- Singleton, E. A. See Kochi, J. K. 4649
- Sinreich, J. and Elad, D. The light-induced addition of 2-pyrrolidone to olefins. 4509
- Sis, Jh. D. See Zaretskaya, I. I. 1595
- Skolik, J., Krueger, P. J. and Wiewiorowski, M. Correlation between the stereochemistry of quinolizidine alkaloids and their infrared spectra from 2840–2600. 5439
- Skrabal, P. See Kuhn, R. 1843
- Skryabin, G. K. See Severina, L. O. 2145
- Skryabin, G. K. See Zaretskaya, I. I. 1595
- Skujins, S., Delderfield, J. and Webb, G. A. A mass spectrometric study of some monocyclic polycarbonyl compounds. 4805
- Slates, H. L. See Taub, D. 2443
- Slaugh, L. H. Hydrogenation of benzene to phenylcyclohexane with supported alkali metal catalysts. 4525
- Smalberger, T. M., Rall, G. J. H., de Wall, H. L. and Arndt, R. R. The structure and configuration of azimine and azcarpine. 6417
- Smith, A. E. See Jackson, A. H. 403
- Smith, C. L. See Zoltewicz, J. A. 2269
- Smith, C. P. See Ramirez, F. 1785, 1931, 2275, 3153, 3735, 5041
- Smith, D. H. See Burlingame, A. L. 5749
- Smith, D. H. See Schnoes, H. K. 2825
- Smith, H. E., Warren, Jr. M. E. and Katzin, L. I. Optically active amines—VIII. Optical rotatory dispersion observations on α - and β -arylalkylamines. 1327
- Smith, P. See Jackson, A. H. 2227, 6119
- Smith, W. B. and Hyon Yuh, Y. The Kolbe electrolysis as a source of free radicals in solution—V. The electrolysis of potassium acetate in the presence of 3,3-dimethyl-1-butene. 1163
- Smitherman, H. C. and Ferguson, L. N. On the aromatic character of 4-pyrones. 923
- Smoliński, S. and Jaworski, M. Spirane—II. Spiro dibenzo [f.h]-[1.5]-dioxacyclononan-3.1'-cyclopropan]. 6977
- Smoliriski, S. and Kubaszek, M.—III. 3,3'-Spiro benzo-[2H.4H]-[1.5]-dioxepin. 6983
- Snatzke, G. and Eckhardt, G. Circular dichroismus—XXVII. Circular dichroismus und UV-spektrum β -substituierter Adamantanone. 4543
- Snatzke, G., Piatak, D. M. and Caspi, E. Steroide mit aromatischem Ring A—XII. Konformation und Cotton-Effekt von aus 1-Hydroxy-4-methyl- $\Delta^{1,3,5(10)}$ östratrienen dargestellten A-seco-steroiden. 2899
- Somerville, A. W. See Oliver, R. W. A. 4067
- Sondheimer, F. See Mitchell, R. H. 1397
- Song, Pill-Soon. See Kurtin, W. E. 2255
- Sonntag, von C. Strahlenchemie von alkoholen—I. Die Wasserstoffbildung bei der UV-Photolyse deuterierter Isopropanole. 117
- Sood, M. S. See Austin, P. W. 3247
- Sorriso, S. See Piazza, G. 4751
- Soundararajan, S. See Krishnamurthy, S. S. 167
- Speckamp, W. N., van Velthuysen, J. A., Pandit, U. K. and Huisman, H. O. Heterocyclic steroids—XII. Synthesis of N-methyl- and N-ethyl-6-aza-8(14)-dehydroestrone methyl ether. 5881
- Speckamp, W. N., van Velthuysen, J. A., Douw, M. A., Pandit, U. K. and Huisman, H. O.—XIII. N-Methyl-6-aza-8(14)-dehydro-19-nortestosterone. 5893
- Speckamp, W. N. See Lakeman, J. 5151
- Spickett, R. G. W. See Beckett, A. H. 2839
- Spillane, W. J. and Scott, F. L. The rearrangement of orthanilic acid to sulphanilic acid in the presence of sulphuric acid-S³⁵. 5011
- Spiteller, G. See Ognyanov, I. 4641
- Spring, D. J. See Chambers, R. D. 3997
- von Spulak, F., Claussen, U., Fehlhaber, H.-W. und Korte, F. Haschisch—XIX. Cannabidiol-carbonsäure-Tetrahydrocannabinol-Ester ein neuer Haschisch-Inhaltsstoff. 5379
- von Spulak, F. See Claussen, U. 1021
- Stafford, C. See Weinberg, D. S. 5409
- Stanovnik, B. See Kobe, J. 239
- Stanovnik, B. See Pollak, A. 2623
- Standacher, D. See Schiele, C. 471, 5017, 5023
- Stein, M. L. See Alimenti, G. 395
- Steinfelder, K. See Huneck, S. 2707
- Stepec, M. See Schiele, C. 5029, 5037
- Stephen, A. M. See Bekker, P. I. 6967

- Sternhell, S. See Collin, P. J. 3069
 Steyn, P. S. See Holzapfel, C. W. 3321
 Sticker, R. E. See Burgstahler, A. W. 2435
 Sticzay, T. See Ognyanov, I. 4641
 Stoodley, R. J. See Dunn, A. R. 2985
 Story, P. R. See Murray, R. W. 4347
 Stradi, R., Pocar, D., Dalla Croce, P. and Bianchetti, G. Studies in the enamine field—XXIX. Autocondensation of 2-(N-methylanilino)-propene: 2,2,8,8-tetramethyl-spiro-[5.5]-undecane-4,10-dione. 6735
 Stradi, R. See Pocar, D. 6741
 Strickson, J. A. and Leigh, M. The oxidation of phenols with chromyl chloride—II. 2,5-, 2,6- and 3,5- dialkyl phenols. 5145
 Strigina, L. I. See Elyakov, G. B. 5483
 Strong, F. M. See Bamkov, J. R. 3329
 Strüber, F.-J. See Zschunke, A. 4403
 Struble, D. L. See Abramovitch, R. A. 357, 705
 Strunz, G. M. Synthesis of a structurally definitive indole derived from tuberostemonine. 2645
 Strunz, G. M. See Götz, M. 2631
 Subramaniam, P. S. See Govindachari, T. R. 753
 Suciu, N. and Mihai, Gh. Sydnones—II. Action of alcoholic KOH on some substituted sydnone derivatives. 33
 Suciu, N. and Mihai, Gh.—III. Some reactions of lithium phenylsydnone with acid and non-metallic chlorides. 37
 Suehiro, T., Kanoya, A., Yamauchi, T., Komori, T. and Shin-Ichi Igeta. Aromatic triphenyl-methylation. Reaction between benzoyl peroxides and triphenylmethyl in aromatic solvents. 1551
 Sugae, R. See Matsuura, T. 6149
 Sugiura, F. See Ogata, Y. 5001
 Sugowdz, G. See Collin, P. J. 3069
 Suhr, H. See Meier, H. 2307
 Sulston, J. E. See Fromageot, H. P. M. 3533
 Summers, L. A. Chemical constitution and activity of bipyridylum herbicides—I. Diquaternary salts of 2,2'-dipyridyl sulphide. 2697
 Summers, L. A. II. Diquaternary salts of 1,10-phenanthroline. 5433
 Summers, L. A. See Black, A. L. 6453
 Sundararajan, P. R. and Rao, V. S. R. Theoretical studies on the conformation of aldopyranoses. 289
 Sunko, D. E. See Servis, K. L. 1247
 Suschitzky, H. and Sutton, M. E. Reductive cyclization of aromatic nitro compounds to benzimidazoles with titanous chloride. 4581
 Sutton, M. E. See Suschitzky, H. 4581
 Suvorov, N. N. See Preobrazhenskaya, M. N. 6131
 Suzuki, A. See Itoh, M. 6591
 Suzuki, M. See Irie, T. 4193
 Swann, D. A. and Turnbull, J. H. Axial and equatorial thiols—III. 17 α and 17 β -mercapto derivatives of androstane and androstan-3 β -ol. 1441
 Szabo, A. See Cookson, R. C. 4353
 Szantay, Cs., Novak, L. et Buzas, A. Chimie des amino-carbinols hétérocycliques pseudo-basiques. Réactions entre dihydro-3,4 isoquinoléines et aminoalcoyl-cétones. 4713
 Szkrybalo, W. See Allinger, N. L. 4699
 Tada, H. See Ikehara, M. 3489
 Tada, H. See Sawa, Y. K. 6185
 Tagaki, W. See Minamida, I. 5293
 Tagaki, W. See Oae, S. 5283
 Tagaki, W. See Uneyama, K. 5271
 Tagawa, H. See Shimizu, M. 5241
 Tahiramani, R. See George, T. 1007
 Tahk, F. C. See Autrey, R. L. 3337
 Taira, S. See Kobayashi, Y. 5763
 Takabayashi, F. See Yoshida, Z. 933
 Takada, S. See Yamada, K. 199, 1255, 1267
 Takagi, I. See Naya, K. 5871
 Takagi, K. See Ogata, Y. 1617
 Takahashi, H. See Kitahonoki, K. 4605
 Takahashi, H. See Kotera, K. 3681, 6177
 Takahashi, T. See Murae, T. 2177
 Takahashi, T. See Tomoeda, M. 959
 Takai, T. See Oda, R. 4051
 Taka-Ishi, N. See Saegusa, T. 3795
 Takaku, M. See Nozaki, H. 6563
 Takano, Y. See Kitahonoki, K. 4605
 Takasugi, M. See Masamune, T. 3461
 Takaya, H. See Nozaki, H. 3655
 Takeda, K. See Djerassi, C. 6913
 Takeda, Ken'ichi. See Ishii, H. 625
 Takemoto, T. See Hikino, H. 3147, 4895
 Takemura, T. and Baba, H. Spectrophotometric investigations of the tautomeric reaction between anthrone and anthronol—II. The base-catalysed reaction. 5311
 Takemura, T. See Baba, H. 4779
 Takeuchi, H. See Tanaka, Y. 6433
 Taller, R. A. See Karabatsos, G. J. 3347, 3923, 3557
 Tamari, M. G. and Awruch, J. A synthesis of 1-methyl, N²-alkylguanines. 2611
 Tamari, M. G. and Awruch, J. Synthesis of N⁶-alkyl derivatives of 2,6-diaminopurine. 3981
 van Tamelen, E. E., Haarstad, V. B. and Orvis, R. L. Hypohalite-induced oxidative decarboxylation of α -amino acids. 687
 Tanahashi, Y. See Murae, T. 2177
 Tanaka, K. See Sawa, Y. K. 255
 Tanaka, Y. and Takeuchi, H. Dielectric and hydrogen-bonding effects of solvents on the base-catalysed reaction of phenyl glycidyl ether with benzoic acid. 6433
 Tao, J. Y. C. 2495
 Tarbell, D. S. See Richards, J. L. 6485
 Tashiro, M. See Tsuge, O. 2583, 5205
 Taub, D., Girotra, N. N., Hoffsommer, R. D., Kuo, C. H., Slates, H. L., Weber, S. and Wendler, N. L. Total synthesis of the marcolide, zearalenone. 2443
 Taveira Magalhães, M. See Gottlieb, O. R. 1601

- Taylor, W. F. and Wallace, T. J. Kinetics of the self-condensation of benzo[b]thiophene 1,1 dioxide. 5081
- Tebby, J. C. See Cooks, R. G. 3289
- Tedeschi, E., Dukler, S., Pfeffer, P. and Lavie, D. Studies on strychnine derivatives and conversion into brucine. 4573
- Teitel, S. See Bossi, A. 4277
- Testa, E. See Pifferi, G. 4923
- Theobald, D. W. See Robinson, D. L. 5227
- Theodoropoulos, S. See Hedaya, E. 2241
- Thies, P. W. Die Konstitution der Valepotriate. Mitteilung über die Wirkstoffe des Baldrians. 313
- Thomas, D. W. and Biemann, K. The hydroxy-indolenine derivative of voacangine. A new indole alkaloid from *Voacanga africana*. 4223
- Thomas, I. See Jones, D. Neville. 297, 5215
- Thomas, M. B. and Mabry, T. J. Isolation, structure and synthesis of scaposin, a new flavone from *Hymenoxys Scaposia* Dc. (compositae). 3675
- Thomson, J. B. See Dorchai, R. Ó. 1377, 5649
- Tichy, M. See Zahradnik, R. 3001
- Tikhomirova, O. B. See Zaretskaya, I. I. 1595
- Tilak, B. D. and Muljani, Z. Synthesis of chromans and benzopyrylium salts involving hydride transfer. 949
- Tiley, E. P. See Dyke, S. F. 6703
- Timpe, H.-J. See Becker, H. G. O. 1031
- Tinland, B. A semi-empirical SCF MO CI treatment of some aminophenols and aminoresorcinols with a variable β -approximation. 6833
- Tišler, M. See Kobe, J. 239
- Tišler, M. See Pollak, A. 2623
- Tissue, G. T., Grassmann, M. and Lwowski, W. Rearrangement of *o*-arenesulfonyl phenylhydroxylamines. 999
- Toda, F. See Iwakura, Y. 575
- Tokoroyama, T., Kamikawa, T. and Kubota, T. The structure of sclerin, a metabolite of *Sclerotinia libertiana*. 2345
- Tokuda, M. See Itoh, M. 6591
- Tokuoka, Y. See Hikino, H. 3147
- Tokura, N. See Nagai, T. 3267
- Tomioka, H., Izawa, Y. and Ogata, Y. The photochemical reactions of substituted acetones with triethyl phosphite. 5739
- Tomioka, K. See Iwakura, Y. 575
- Tomko, J., Vassova, A., Adam, G. und Schreiber, K. Konstitution und stereochemie des Veratrum-alkaloids Veralinin. 6839
- Tomko, J., Vassová, A., Adam, G. und Schreiber, K. Über Veralkamin, ein neuer Steroidal-alkaloid-Typ mit 17 β -Methyl-18-nor-iso-cholestan-Kohlenstoffgerüst. 4865
- Tomko, J. See Höhne, E. 4875
- Tomoeida, M., Inuzuka, M., Furuta, T., Shinozuka, M. and Takahashi, T. Studies on conformation and reactivity—V. A nuclear magnetic resonance study of 4-ethylthio-4-en-3-oxo steroids and their analogs: The unique deshielding effect of a polar thio-function. 959
- Tömösközi, I. See Bestmann, H. J. 3299
- Tonder, G. van. See Anderson, L. A. P. 1687
- Torgov, I. V. See Severina, L. O. 2145
- Torgov, I. V. See Zaretskaya, I. I. 1595
- Torgov, I. V. See Zaretskii, V. I. 2339
- Torii, T. See Iwakura, Y. 575
- Tozoy, T. See Ishii, H. 625
- Trager, W. F., Lee, C. M., Phillipson, J. D., Haddock, R. E., Dwuma-Badu, D. and Beckett, A. H. Configurational analysis of rhynchophylline-type oxindole alkaloids. The absolute configuration of ciliaphylline, rhynchociline, specionoxeine, isospecionoxeine, rotundifoline and isorotundifoline. 523
- Trager, W. F., Phillipson, J. D. and Beckett, A. H. Chemical confirmation for the configurations assigned to the indole alkaloids speciogynine, speciocilatine, mitracilatine and hirsutine. 2681
- Trestianu, A., Niculescu-Majewska, H., Bally, I., Barabás, A. and Balaban, A. T. Proton magnetic resonance spectra of chelated boronium and beryllium bis-(1,3-diketones). 2499
- Trifunović, V. See Mihailović, M. Lj. 6959
- Tschesche, R., Baumgarth, M. und Welzel, P. Weitere Inhaltsstoffe aus *Jaborosa integrifolia* Lam.—III. Zur Struktur der Jaborosalactone C. D und E. 5169
- Tschesche, R. und Kohl, H. Digitanolglykoside—XIX. Die Struktur der Kondurangoglykoside A, A₁ und C, C₁. 4359
- Tsoucaris, G. See Luche, J. L. 1275
- Tsuge, O., Itoh, T. and Tashiro, M. Studies of acyl isocyanate—IV. Synthesis of diacyl diisocyanates. 2583
- Tsuge, O., Kanemasa, S. and Tashiro, M. Studies of thiobenzoyl isocyanate—I. Reaction of thiobenzoyl isocyanate with hydrazines. 5205
- Tsuji, N. Studies on julimycins—I. The structure of julimycin B—II. 1765
- Tsuji, N. and Nagashima, K. II. The stereochemistry of julimycin B—II. 4233
- Tsukitani, Y. See Sayo, H. 1717
- Tsuruoka, T. See Inouye, S. 2125
- Tucker, R. B. See Duffin, H. C. 389, 6999
- Tümmler, R. See Huneck, S. 2707
- Turchin, K. F. See Preobrazhenskaya, M. N. 6131
- Turnbull, J. H. See Swann, D. A. 1441
- Turner, D. W. See Harris, M. 1517
- Turro, N. J. and Hammond, W. B. Cyclopropanones—VIII. Preparation and characterization of cyclopropanone. Methylcyclopropanone, 2,2-dimethylcyclopropanone and tetramethylcyclopropanone. 6017
- Turro, N. J. and Hammond, W. B. IX. Reactions of acids and amines with cyclopropanone and some alkyl cyclopropanones. 6029
- Uaboonkul, S. See Hughes, A. N. 3437
- Uchida, A. See Metler, T. 4285

- Uddin, M.** See **Haslam, E.** 4015
Ueda, S. See **Nozaki, H.** 1445
Umbreit, P. See **Heublein, G.** 4733
Uneyama, K., Tagaki, W., Minamida, I. and Oae, S. 3d-Orbital resonance in divalent sulphides—IX. A Study on the mechanism of the base catalysed decarboxylation of α -mercapto-carboxylic acids. 5271
Uneyama, K. See **Minamida, I.** 5293
Uneyama, K. See **Oae, S.** 5283
Urasaki, I. See **Furuya, Y.** 2367
Usher, G. E. See **Cookson, R. C.** 4353
Uvarova, N. V. See **Preobrazhenskaya, M. N.** 6131
Uyeo, S., Okada, J., Matsunaga, S. and Rowe, J. W. The structure and stereochemistry of abieslactone 2859
- Valentin, E.** See **Risaliti, A.** 1889
de Valois, P. J., van Albada, M. P. and Veenland, J. U. Isomerization of bromotoluenes under the influence of $Al_2Br_6 \cdot HBr$. 1835
de Varela, A. P. G. V. See **Novelli, A.** 2481
Varma, K. R. and Caspi, E. Concerning asymmetric induction with (–) and (+) diisopinocampheylboranes. 6365
Vary, S. See **Allingham, Y.** 4625
Vary, S. See **Cookson, R. C.** 4559
Vassová, A. See **Tomko, J.** 4865, 6839
van der Veek, A. P. M. See **Altona, C.** 4377
Veenland, J. U. See **Roest, B. C.** 2155
Veenland, J. U. See **de Valois, P. J.** 1835
van Velthuysen, J. A. See **Speckamp, W. N.** 5881, 5893
Venturella, P. See **Piozzi, F.** 4073
Verbit, L. and Heffron, P. J. Optically active aromatic chromophores—IV. Circular dichroism studies of some open-chain systems. 1231
Verbit, L. and Clark-Lewis, J. W. VIII. Studies in the isoflavonoid and rotenoid series. 5519
Verbit, L., Rao, A. S. and Clark-Lewis, J. W. IX. Optical rotatory dispersion and circular dichroism studies in the α -arylethyl series. 5839
Viche, H. G. See **Buyle, R.** 3987, 4217
Vigevani, A. V. See **Casu, B.** 803
Villaumme, M. L. See **Lablache-Combier, A.** 6951
Viswanathan, N. See **Govindachari, T. R.** 6411
Vishwapaul. See **Austin, P. W.** 3247
Viswanathan, T. P. See **Radhakrishnamurti, P. S.** 5645
Vita-Finzi, P., Kashman, Y., Glotter, E. and Lavie, D. Studies on epoxides—V. Reactions with 5,6-epoxy-eudesman-8 β ,12-olides. 5847
Vollbracht, L., Huysmans, W. G. B., Mijs, W. J. and Hageman, H. J. Chlorination of phenol and some alkyl- and aryl-substituted phenols in acetic acid. Formation of unsaturated chlorinated cyclohexanone derivatives. 6265
Vukov, R. See **Mihailović, M. Lj.** 6959
- de Waal, H. L.** See **Smalberger, T. M.** 6417
- Wachter, M. P.** See **Harris, T. M.** 6897
Wahren, M. Reversible hydrolytische Ringöffnungen an Aminoheteroaromaten—II. Aminopyridine und Aminobenzopyridine. 441
Wahren, M. III. 3- und 5-nitro-2-aminopyridin. 451
Wahren, M. See **Becker, H. G. O.** 1031
Waiss, Jr. A. C. See **Jurd, L.** 2801
Wajer, Th. A. J. W. See **Mackor, A.** 1623
Walborsky, H. M. See **Inouye, Y.** 2907
Walker, J. See **Beckett, A. H.** 6093
Wallace, T. J. and Heimlich, B. N. The decomposition of dibenzothiophene dioxide and related compounds in the presence of molten alkali. 1311
Wallace, T. J. See **Taylor, W. F.** 5081
Wallenfels, K. See **Bretschneider, J.** 1063
Walter, R. See **Gut, V.** 6351
Ward, R. S. See **Cooks, R. G.** 3289
Warnet, R. J. See **Barneis, Z. J.** 5053
Warnock, W. D. C. See **Connolly, J. D.** 1507
Warren, Jr. M. E. See **Smith, H. E.** 1327
Watkins, W. B. See **Davis, B. R.** 2165
Watts, M. L. See **McOmie, J. F. W.** 2289
Watts, W. E. See **Barr, T. H.** 3219, 6111
Webb, G. A. See **Skujins, S.** 4805
Webb, J. G. K. See **Lynch, B. M.** 3595
Weber, S. See **Taub, D.** 2443
Weinberg, D. S., Stafford, C. and Scoggins, M. W. Fragmentation of organic compounds on electron impact—IV. Cyclic sulfones. 5409
Weingarten, H. The synthesis and chemistry of 3-phenyl-2-propynylmultiamines. 2767
Weiss, F. See **Schirmann, J. P.** 6475
Weisz, I. See **Fodor, G.** 2357
Weitman, R. See **Lavie, D.** 3011
Welzel, P. See **Tschesche, R.** 5169
Wendler, N. L. See **Taub, D.** 2443
Wessels, P. L. See **de Kock, W. T.** 6037, 6045
West, D. E. See **McOmie, J. F. W.** 2289
Wheeler, D. M. S. See **Barneis, Z. J.** 5053
Wheeler, D. M. S. See **Gallup, G. A.** 5769
Whipple, E. B. and Evanega, G. R. The assignment of configuration to the photoaddition products of unsymmetrical carbonyls to furan using pseudocontact shifts. 1299
White, A. F. See **Hanson, J. R.** 2527, 2533, 6291
Whitham, G. H. See **Bellamy, A. J.** 247
Wiberg, K. B. Application of the Pople-Santry-Segal CNDO method to the cyclopropyl-carbinyl and cyclobutyl cation and to bicyclobutane. 1083
Wiedhaup, K., Nollet, A. J. H., Korsloot, J. G. and Huisman, H. O. Total synthesis of anthrasteroids—I. Formylation of certain cyclic α,β - and β,γ -unsaturated ketones. 771
Wiedhaup, K., Kesselaar, F. H. and Huisman, H. O. II. Preparation of some anthraestrone and anthraequilenine derivatives. 779
Wiedhaup, K. and Huisman, H. O. III. The preparation of some 3-phenyl-2,4-diaza-anthraestrans. 789

- Wiersema, A. K. See Kraak, A. 3381
 Wiewiorowski, M. See Skolik, J. 5439
 Willgruber, J. See Fleischer, R. 5943
 Wilhelm, A. See Schiele, C. 5029
 Williams, D. H. See Cooks, R. G. 3289
 Williams, D. H. See Wilson, R. G. 1407
 Williams, G. J. See Murray, R. W. 4347
 Williams, J. R. and Ziffer, H. A photochemical rearrangement of β,γ -unsaturated cyclic ketones. 6725
 Williams, R. O. See Chivers, P. J. 4411, 6625
 Williamson, K. L., Fang Li Hsu, Y. and Young, E. I. The stereochemistry of reductive dehalogenation. The reduction of 1,2,3,4,7,7-hexachloro-5-enod-acetoxy-bicyclo [2.2.1]-2-heptene. 6007
 Wilson, N. D. V. and Joule, J. A. A method for the demethylation of N^+ -methyl quaternary ammonium salts. 5493
 Wilson, R. G., Bowie, J. H. and Williams, D. H. Solvent effects in NMR spectroscopy. Solvent shifts of methoxyl resonances in flavones induced by benzene; an aid to structure elucidation. 1407
 Wise, M. L. See Paquette, L. A. 2937
 Wiseman, P. See Banks, D. J. 6791
 Wohl, A. J. HMO correlations with the electronic spectra of a large non-homogeneous series. 6889
 Wolf, H. See Budzikiewicz, H. 6797
 Wolff, H. P. See Brune, H. A. 4861
 Woolard, G. R. See Bekker, P. J. 6967
 Woolsey, G. B. See Bonner, O. D. 3625
 Workman, R. See Rieker, A. 103
 Wright, S. H. B. See Beckett, A. H. 2839
 Wüest, H. See Büchi, G. 2049
 Wulfson, N. S. See Severina, L. O. 2145
 Wulfson, N. S. See Zaretskaya, I. I. 1595
 Wulfson, N. S. See Zaretskii, V. I. 2327, 2339
 Wünsche, Ch., Sachs, A., Einwiller, A. und Mayer, W. Elektronenstoss-induzierte Alkyl- und Wasserstoffwanderungen bei Diphen-säure-derivaten. 3407
 Wynberg, Hans. See Kraak, A. 3381, 3881
 Yakshin, V. V. See Kostyanovsky, R. G. 2995
 Yamada, K., Takada, S., Nakamura, S. and Hirata, Y. The structures of anisatin and neo-anisatin. Toxic sesquiterpenes from *Illicium anisatum* L. 199
 Yamada, K., Takada, S. and Hirata, Y. Anisatinic acid and isoanisatinic acid, isomerization products of anisatin. 1255
 Yamada, K., Takada, S., Nakamura, S. and Hirata, Y. Facile acetylation of a tertiary hydroxy group and an unusual deshielding phenomenon by an acetoxyl group in NMR spectra. 1267
 Yamada, S. See Shioiri, T. 4159, 4177
 Yamaguchi, H., Amako, Y. and Azumi, H. The electronic spectrum of the tropone molecule. 267
 Yamaguti, T. See Nozaki, H. 1445
 Yamakawa, K. and Morie, M. Synthesis and stereochemistry of *cis*- and *trans*-2,5-diferrocenyltetrahydrofuran. 3615
 Yamamura, S. See Irikawa, H. 5691
 Yamana, S. Molecular rotations of fully acetylated aldopyranosyl halides in relation to their structures. The relation among the slopes of some $[M]_D^{20}$ - R_D (for halogen) plots. 1559
 Yamaoka, T., Hosoya, H. and Nagakura, S. Spectroscopic studies on the protonation of *s*-triaminobenzene. 6203
 Yamauchi, T. See Suehiro, T. 1551
 Yano, Y. See Oae, S. 5721
 Yanovskaya, L. A., Shchidayatov, Ch., Prokofiev, E. P., Andrianova, G. M. and Kucherov, V. F. The reactions of *N*-alkyl substituted α -aminoisobutyronitriles with carbonyl compounds. 4677
 Yasuda, F., Nakagawa, Y., Akahori, A. and Okanishi, T. Studies on the steroidal components of domestic plants—LVII. The structure of igagenin. 6535
 Yates, K. See Buncel, E. 6671
 Yonemitsu, O. See Kanaoka, Y. 2591
 Yoshida, Z. and Takabayashi, F. Electronic spectra of mono-substituted anthraquinones and solvent effects. 933
 Yoshimura, T. See Shono, T. 729
 Young, E. I. See Williamson, K. L. 6007
 Youssefeyeh, R. D. See Murray, R. W. 4347
 Zahradnik, R., Tichý, M. and Reid, D. H. Physical properties and chemical reactivity of alternant hydrocarbons and related compounds—XIV. Basicity and electronic spectra of phenalenones. 3001
 Zahradnik, R. See Fleischer, R. 5943
 Zaikin, V. G. See Zaretskaya, I. I. 1595
 Zaikin, V. G. See Zaretskii, V. I. 2339
 Zander, M. See Clar, E. 2817
 Zaretskaya, I. I., Kogan, L. M., Tikhomirova, O. B., Sis, Jh. D., Wulfson, N. S., Zaretskii, V. I., Zaikin, V. G., Skryabin, G. K. and Torgov, I. V. Microbial hydroxylation of the cholesterol side chain. 1595
 Zaretskii, V. I., Wulfson, N. S., Zaikin, V. G., Leonov, V. N. and Torgov, I. V. Mass spectrometry of steroid systems—XV. Determination of the configuration of tertiary alcohols in the 17-alkyl-estradiol and 17-alkyl-19-nortestosterone series. 2339
 Zaretskii, V. I., Wulfson, N. S., Papernaja, I. B., Gurvich, I. A., Kucherov, V. F., Milstein, I. M., Serebryakov, E. P. and Simolin, A. V. Mass spectrometry of gibberellins—II. The location of the double bond in the gibbane system. 2327
 Zaretskii, V. I. See Severina, L. O. 2145
 Zaretskii, V. I. See Zaretskaya, I. I. 1595
 Zayed, S. M. A. D. See Mustafa, A. 4725

- Zbiral, E. und Rasberger, M.** Reaktionen mit phosphororganischen Verbindungen—XV. Oxydationen von β -Oxoalkylenphosphoranen mit KMnO_4 und OsO_4 —Eine neuartige Synthese von 1,2-Diketonen. 2419
- Zbiral, E. und Berner-Fenz, L.** XIV. Zur Konstitution von ν -acylpropenylphosphoniumsalzen und deren Oxydation mit Derivaten der salpetrigen Säure. 1363
- Zchunke, A., Strüber, F.-J. und Borsdorf, R.** H^1 -NMR-spektren der Alkylcycloheptanole. 4403
- Zeeh, B.** Heterocyclen aus isocyaniden—IV. 3*H*-Benzo[g]indole aus 1-Naphthylisocyanid und aliphatischen Ketonen. 6663
- Zeeh, B. See Dorchaf, R. O.** 5649
- Zeeh, B. See Heiss, J.** 3255
- Zeeh, B. See Kessler, H.** 6825
- Zeller, K.-P. See Heiss, J.** 3255
- Zelwer, C. See Luche, J. L.** 1275
- Ziffer, H. and Robinson, C. H.** On the optical activity of α,β -unsaturated ketones. 5803
- Ziffer, H. See Williams, J. R.** 6725
- Zimont, S. L. See Kostyanovsky, R. G.** 2995
- Zoltewics, J. A., Smith, C. L. and Meyer, J. D.** Deuterodecarboxylation. A convenient method for the preparation of labelled pyridines. 2269
- Zschunke, A., Mühlstädt, M. und Flemming, Chr.** Stereochemische zuordnung in der Pinanreihe—II. Über die Pinandiole-(2,3). 6469
- Zschunke, A. See Mühlstädt, M.** 1611
- Zwanenburg, B. See Engberts, J. B. F. N.** 1737