

AUTHOR INDEX

- Abou-Zeid, N. Y. See Kamel, M. 1863
- Abu-Mustafa, E. A. and Fayez, M. B. E. Natural coumarins—VII. The constitution of some coumarin and coumarilic acid derivatives 1305
- Adam, G., Schreiber, K., Tomko, J. und Vassová, A. Vorazin, ein neues Veratrum-alkaloid mit 22,26-Imino-cholestan-gerüst. 167
- Adam, W., Grimison, A. and Rodríguez, G. Effects of protonation on electron densities in nitrogen heterocyclic molecules 2513
- Adderley, C. J. R., Baddeley, G. V. and Hewgill, F. R. A cyclohexane ring contraction. 4143
- Adembri, G., Sarti-Fantoni, F. De Sio, and Franchini, P. F. Synthesis and UV absorption spectra of 5-isoxazolepolyene aldehydes. 4697
- Adolphsen, G., Appel, H. H., Overton, K. H. and Warnock, W. D. C. Hydroxyskytanthines I and II. Two minor alkaloids of *Skytanthus acutus* Meyen. 3147
- Aft, H., Grant, R. R. and Molyneux, R. J. The reductive acetylation of quercetin. 1963
- Aharanson, N. See Crosby, D. G. 465
- Akamatsu, S. See Kobayashi, Y. 115
- Akerkar, A. S. See Govindachari, T. R. 4811
- Akhtar, I. A. See Butt, A. 199
- Akhtar, I. A. See Butt, M. A. 1551
- Akhtar, M. See Butt, A. 199
- Akhtar, M. See Butt, M. A. 1551
- Ali, M. I. See Kamel, M. 2863
- Allam, M. A. See Kamel, M. 1863
- Allen, D. W. and Tebby, J. C. The reaction of triarylphosphines with phenylacetylene in the presence of water 2795
- Allinger, N. L. and Gilardeau, C. Organic quantum chemistry—XIV. A theoretical study of the molecular structure and electronic spectrum of octalene (bicyclo [6.6.0] tetradecaheptaene). 1569
- Allinger, N. L. and Neumann, C. L. Conformational analysis—LII. The conformation of ring A in 5 β -3-ketosteroids 1279
- Allinger, N. L. and Tushaus, L. A. Conformational analysis—LIII. The reactions of the cyclooctenes with halogen, and the dipole moments of the *cis* and *trans*-1,2-dichlorocyclooctanes. 2051
- Allison, J. M., Burn, D., Butcher, F. K., Davies, M. T. and Petrow, V. Modified steroid hormones—XLVII. Some further pentacyclic types. 1515
- Altona, C., Buys, H. R., Hageman, H. J. and Havinga, E. Conformation of non-aromatic ring compounds—XXXIII. *Trans*-1,2 dihalogenocyclohexanes, *trans*-1,2-dihalogenocyclopentanes and α -halogenocyclohexanones; correlation between dipole moments and vicinal proton spin coupling constants. 2265
- Altona, C. See Geise, H. J. 439
- Alvarez, C. See Romo, J. 529
- Ammon, H. L. See Anderson, Jr. A. G. 3601
- Ananchenko, S. N. See Wulfson, N. S. 3667
- Anchel, M. See McMorris, T. C. 3985
- Anderson, Jr. A. G. and Ammon, H. L. Studies on the 1-*H*-1-pyridine system. 3601
- Anderson, L. A. P., De Kock, W. T., Pachler, K. G. R. and Brink, C. v. d. M. 4153
- Andreev, V. M. See Kugatova-Shemyakina, G. P. 2721
- Andrejević, V. See Stojiljković, A. 721
- Anjaneyulu, B. See Bose, A. K. 4769
- Aoto, K. See Hikino, H. 2169
- Apjok, J. See Kovács, O. K. J. 4181
- Aplin, R. T. See Tursch, B. 761
- Appel, H. H. See Adolphsen G. 3147
- Appleton, R. A., Dixon, G. R., Evans, J. M. and Graham, S. H. Studies of bicyclo(3.3.1) nonanes—II. Transannular hydride shifts in bridged bicycles. 805
- ApSimon, J. W., Craig, W. G., Demarco, P. V., Mathieson, D. W., Saunders, L. and Whalley, W. B. The chemical shift—I. Long range effects of methyl groups and the anisotropies of the C—C and C—H bond. 2339
- ApSimon, J. W., Craig, W. G., Demarco, P. V., Mathieson, D. W., Saunders, L. and Whalley, W. B. The chemical shift—II. The anisotropies of the carbon-carbon double bond. 2357
- ApSimon, J. W., Craig, W. G., Demarco, P. V., Mathieson, D. W. and Whalley, W. B. The chemical shift—III. The NMR spectra of some diterpenes. 2375
- Aratani, T. See Nozaki, H. 3645
- Arcamone, F., Camerino, B., Chain, E. B., Ferretti, A. and Redaelli, S. Studies concerning lysergic and dihydrolysergic acid α -hydroxyethylamides. 11
- Arndt, R. R., Eggers, S. H. and Jordaan, A. The alkaloids of *Anisotes sessiliflorus* C.B.Cl. (Acanthaceae)-five new 4-quinazolone alkaloids. 3521
- Arnold, G. See Schiele, C. 2693
- Atherton, N. M., Cranwell, P. A., Floyd, A. J. and Haworth, R. D. Humic acid—I. ESR spectra of humic acids 1653
- Ault, A. See Yates, P. 3307
- Autrey, R. L. and Tahk, F. C. The synthesis and stereochemistry of some isatylideneacetic acid derivatives. 901
- Baddeley, G. V. See Adderley, C. J. R. 4143

- Baggaley, K. H., Dixon, J. R., Evans, J. M. and Graham, S. H. Studies in bicyclo[3,3,1]nonanes—I. The acetolysis of 4-cyclooctenylmethyl toluene-*p*-sulphonate. 299
- Balaban, A. T., Frangopol, P. T. Frangopol, M. and Negoita, N. Stability and equilibria of free radicals—III. Preparation of stable, sterically shielded, diarylnitrogen radicals with donor and acceptor aryl groups in the same molecule. 4661
- Balaban, A. T., Katritzky, A. R., and Semple, B. M. Some novel *t*-butylation reactions in the conversion of phenyl-substituted 1,5-diketones to pyrylium salts. 4001
- Balaban, A. T. See Frangopol, M. 841
- Balasubramanian, K. K. See Thyagarajan, B. S. 1893, 3205, 3533
- Ballantine, J. A. and Pillinger, C. T. An analysis of the chemical shift positions of the aromatic protons of phenolic compounds as a guide to orientation. 1691
- Barbieri, W., Bernardi, L., Coda, S., Colò, V. and Palamidessi, G. Isoxazoles—I. 3-Aminoisoxazolin-5-ones and 5-aminoisoxazolin-3-ones. 4395
- Barbieri, W., Bernardi, L., Coda, S., Colò, V., Diquai, G. and Palamidessi, G. Isoxazoles—II. Mannich bases. 4409
- Barringer, D. F. See Cava, M. P. 4557
- Barsukov, L. I. See Bergelson, L. D. 2709
- Bartle, K. D., Edmundson, R. S. and Jones, D. W. Cyclic organophosphorus compounds—V. High resolution nuclear magnetic resonance spectra of some 5,5-dialkyl-1,3,2-dioxaphosphorinanes and related compounds. 1701
- Barua, A. K. Triterpenoids—XXV. The constitution of entagenic acid—a new triterpenoid sapogenin from *Entada phaseoloides* Merrill. 1499
- Barua, A. K., Chakrabarti, P. and Das, D. C. Triterpenoids—XXVI. The constitution of entagenic acid. 1505
- Bassova, G. I. See Kursanov, D. N. 2235
- Bhattacharyya, S. C. See Bawdekar, A. S. 1993
- Bhattacharyya, S. C. See Joshi, G. D. 1985
- Bhattacharyya, S. C. See Sastry, S. D. 1997
- Baumann, H., Franklin, N. C. and Möhrle, H. The configurations and conformations of 2-carboxycyclopentanols and the corresponding methyl and ethyl esters. 4331
- Baumgarth, M. See Tschesche, R. 249
- Bawdekar, A. S., Kelkar, G. R. and Bhattacharyya, S. C. Terpenoids—CIV. Costol fraction of costus root oil. 1993
- Becker, W. E. See Smith, M. B. 4215
- Beckett, A. H. See Casey, A. F. 1405
- Beckett, A. H. See Lee, C. M. 375
- Beckett, A. H. See Trager, W. F. 365, 1043
- Beecham, A. F. The ORD of glycine peptides with a C-terminal or N-terminal L-leucine residue. 4481
- Bekker, R. A. See Dyatkin, B. L. 4291
- Belf, L. J., Buxton, M. W. and Tilney-Bassett, J. F. Some reactions of 1,2,3,4-tetrafluorobenzene and derived compounds. 4719
- Bellaart, A. C. See Rummens, F. H. A. 2735
- Ben-Ishai, D. See Breuer, S. W. 2869
- Bennett, C. R. and Cambie, R. C. Chemistry of the podocarpaceae—XII. Oxidation of O-methyl-podocarpic acid with lead tetra-acetate. 927
- Bennett, J. E., Sieper, H. and Tavs, P. 2,2,6,6-Tetramethylpiperidyl-1-thiyl. A stable new radical. 1697
- Bergelson, L. D., Barsukov, L. I. and Shemyakin, M. M. The stereochemistry of the Wittig reaction with non-stabilized and semistabilized ylids. 2709
- Berlin, K. D., Wilson, L. A. and Raff, L. M. Kinetics of the decomposition of a phosphorylated triazoline. Evidence for a dipolar ion intermediate. 965
- Bernardi, L. See Barbieri, W. 4395, 4409
- Bernath, T. See Breuer, S. W. 2869
- Bertelli, D. J. See Dreyer, D. L. 4607
- Berti, G., Livi, O., Segnini, D. and Caverio, I. Determination of constitution and synthesis of a new flavone from *Cistus monspeliensis* L. 2295
- Bevan, C. W. L., Patel, M. B., Rees, A. H. and Loudon, A. G. The seed alkaloids of *Hunteria umbellata*. 3809
- Bhatia, S. B. See Ramirez, F. 2067
- Bhatia, V. K., Ramanathan, J. D. and Seshadri, T. R. Constitution of mangiferin. 1363
- Bhattacharyya, S. C. See Joshi, B. N. 1251
- Bhattacharyya, S. C. See Kadival, M. V. 1241
- Bhattacharyya, S. C. See Kamat, S. Y. 4487
- Bhattacharyya, S. C. See Mathur, R. K. 2495
- Bhattacharyya, S. C. See Mehra, M. M. 2469
- Bhattacharyya, S. C. See Patnekar, S. G. 919
- Bhattacharyya, S. C. See Sastry, S. D. 2491
- Bhattacharyya, S. C. See Seshadri, R. 1267
- Bhattacharyya, S. C. See Shanbhag, S. N. 1235
- Bhattacharyya, S. K. See Bose, A. K. 4769
- Bird, C. W. and Molton, P. Reinvestigation of the reactions of maleic anhydride with acetylacetone, ethyl acetoacetate and resorcinol. 4117
- Bixon, M. and Lifson, S. Potential functions and conformations in cycloalkanes. 769
- Blears, D. J. and Danyluk, S. S. A nuclear magnetic resonance study of the protonation of nitrogen heterocyclic molecules. 2927
- Blunt, J. W., Coxon, J. M., Hartshorn, M. P. and Kirk, D. N. Reactions of epoxides—XIII. The backbone rearrangement of 3 α -acetoxy-4 α , 5-epoxy-5 α -cholestanes with Lewis acid. 1811
- Bocchi, V., Chierici, L. and Gardini, G. P. The structure of the oxidation product of pyrrole, C₁₂H₁₇N₃O₃. 737
- de Boer, Th. J. See Hof, H. A. van't. 3757
- de Boer, Th. J. See Roest, B. C. 3071
- de Boer, Th. J. See Wajer, Th. A. J. W. 4021
- de Boer, Th. J. See Wijnen, W. Th. van. 3763

- Bolger, B. J., Marathe, K. G., Philbin, E. M., (the late) Wheeler, T. S. and Lillya, C. P. Stereochemical studies in flavonoids. 341
- Bonn, E. See Knobler, Y. 1557
- Booth, H., Gidley, G. C. and in part, Franklin, N. C. The preparation of *cis* and *trans*-2-alkyl-NN-dimethylcyclohexylamines. 2421
- Booth, H. and Little, J. H. Proton magnetic resonance studies of cyclic compounds—V. The chemical shifts of the 2,6-protons in C-alkyl- and N-alkyl-piperidines. 291
- Borčić, S. See Majerski, Z. 661
- Borčić, S. See Nikoletić, M. 649
- Bose, A. K., Anjaneyulu, B., Bhattacharya, S. K. and Manhas, M. S. Studies on lactams—V. 3-Azido-2-azetidinones. 4769
- Bose, A. K. and Kugajevsky, I. Studies on lactams—VII. A new synthesis of β -amino- β -lactams. 957
- Bose, A. K. and Kugajevsky, I. NMR spectral studies—IV. Some ^{15}N -H coupling constants. 1489
- Bose, A. K. and Tibbets, M. S. Terpenes—V. Reinvestigation of a synthesis of thujane. 3887
- Bose, S. K. See Sen, P.N. 4177
- Bošnjak, J. See Mihalović, M. Lj. 215
- Bowers, A. See Iriarte, J. 121
- Bowie, J. H., Larsson, F. C. V., Schroll, G., Lawesson, S.-O. and Cooks, R. G. Electron impact studies—IX. Mass spectra of aryl-sulphinylamines skeletal rearrangement on electron impact. 3743
- Bowie, J. H., Williams, D. H., Madsen, P., Schroll, G. and Lawesson, S.-O. Studies in mass spectrometry—XVII. Rearrangement processes in some esters containing unsaturated linkages—the elimination of CO_2 from esters. 305
- Bowie, J. H. See Williams, D. H. 3173
- Braband, J. See Mann, G. 3393
- Bradshaw, R. W. See Murray, A. W. 1929, 2333
- Brady, W. T. and Hollifield, B. M. Halogenated ketenes—IV. Cycloadditions of alkylhalo-ketenes. 4251
- Braendlin, Hans. P. See Dilling, W. L. 1211
- Brauman, J. I. and Sanderson, W. A. Rearrangement of a neopentylamine oxide. 37
- Breuer, S. W., Bernath, T. and Ben-Ishai, D. N-benzoylbenzaldimines and N- α -alkoxybenzylbenzamides. 2869
- Bricas, E. See van Heijenoort, J. 3403
- Brink, C. v. d. M. See Anderson, L. A. P. 4153
- Britten, A. Z., Joule, J. A. and Smith, G. F. Akuamma-alkaloids—IX. The zinc-hydrochloric acid reduction of picalaine. 1971
- Brodie, H. J. and Warg, P. A. The preparation and enzymatic C-1,2-dehydrogenation of estr-4-ene-3,17-dione-1- ^3H (83% β). 535
- Brooks, C. A. See Strickson, J. A. 2817
- Brose, D. A. See Castro, A. J. 4499
- Brown, J. C., Cross, B. E. and Hanson, J. R. New metabolites of *Gibberella fujikuroi*—XIII. Two gibbane 1 \rightarrow 3-lactones. 4095
- Brown, P. J. N. and Mooney, E. F. The NMR spectra of 1,2,3,4-tetrafluorodibenzofuran and some of its derivatives. 4047
- Brown, P. J. N., Stephens, R. and Tatlow, J. C. Aromatic polyfluoro-compounds—XXXVIII. 1,2,3,4-tetrafluorodibenzofuran and some nucleophilic replacement reactions. 4041
- Bryce, T. A., Campbell, I. M. and McCorkindale, N. J. Metabolites of the polyporaceae—I. Novel conjugates of polyporenic acid A from *Piptoporus betulinus*. 3427
- Bryce, T. A., Martin-Smith, M., Osske, G., Schreiber, K. and Subramanian, G. Sterols and triterpenoids—XI. Isolation of arundoin and sawamilletin from Cuban sugar cane wax. 1283
- Buchanan, G. L., Curran, A. C. W., McCrae, J. M. and McLay, G. W. Bridged ring systems—XIII. The synthesis of cycloheptene carboxylic acids. 4729
- Buchanan, G. L. and McCrae, J. M. The conformation of a cycloheptene. 279
- Buchkov, A. F. See Kochetkov, N. K. 693
- Budzikiewicz, H. See Jackson, A. H. 603
- Burdon, J., King, D. R. and Tatlow, J. C. Aromatic polyfluoro compounds—XXXVI. The reactions of 2-substituted-tetrafluoro-nitrobenzenes with nucleophiles. 1347
- Burgess, C., Cooley, G., Feather, P. and Petrow, V. Modified steroid hormones—XLVIII. A new route to 17 α -bromoethynyl- and 17 α -iodoethynyl-17 β -hydroxy steroids. 4111
- Burkinshaw, G. F. and Davis, B. R. Chemistry of the podocarpaceae—XIV. Per-acid oxidation of some diterpenoid phenols and ethers. 4147
- Burn, D. See Allison, J. M. 1515
- Burstain, I. G. See Foote, C. S. 2583, 2601
- Bussink, J. See Mijs, W. J. 2253
- Butcher, F. K. See Allison, J. M. 1515
- Butt, A., Akhtar, I. A. and Akhtar, M. Synthesis of substituted pyridines—II. 4,6-Dihydroxy-1-substituted pyridine-3-carboxyanilides. 199
- Butt, A., Hasan, M. and Manawwar, Z. Synthesis of substituted pyridines—IV. 2461
- Butt, M. A., Akhtar, I. A. and Akhtar, M. Synthesis of substituted pyridines—III. Formation of 6-hydroxy-4-phenoxy-2-oxo-1-substituted (alkyl or aryl) pyridine-3-carboxyanilides. 1551
- Buxton, M. W. See Belf, L. J. 19
- Buyts, H. R. See Altona, C. 2265
- Cabrera, A. See Romo de Vivar, A. 3903
- Calligaris, M., Linda, P. and Marino, G. Nucleophilic heteroaromatic substitution—XXIV. Kinetics of piperidinodechlorination of 2- and 6-alkyl-4-chloropyrimidines in ethanol and toluene—evidence for a steric hindrance to solvation of the *aza*-group. 813

- Calvin, M. See McCarthy, E. D. 2609
 Cambie, R. C. See Bennett, C. R. 927
 Camerino, B. See Arcamone, F. 11
 Campbell, I. M. See Bryce, T. A. 3427
 Campbell, S. F., Lancashire, F., Stephens, R. and Tatlow, J. C. Fluorocyclohexanes—XII. Novel elimination reactions of 1H,2-chloro-/decafluorocyclohexane and 1H,2-chloro/-1-chloro-nonafluorocyclohexane. 4435
 Cardillo, B., Casnati, G., Pochini, A. and Ricca, A. Alkylation of indole sodium salt as ambifunctional nucleophilic system. 3771
 Casnati, G. See Cardillo, B. 3771
 Castine, W. H. See Wheeler, D. M. S. 3909
 Castro, A. J., Tertzakian, G., Nakata, B. T. and Brose, D. A. Arylopyrrolymethenes. 4499
 Casy, A. F., Beckett, A. H. and Iorio, M. A. Studies of the elimination of 4-aryl-3-methyl-4-piperidinols—V. Some factors affecting the direction of elimination. 1405
 Casy, A. F. and Hassan, M. M. A. Structure and spectroscopy of products derived from some 3-amino-1,1-diphenylpropanes and cyanogen bromide. 4075
 Casy, A. F. and Pocha, P. Studies of the elimination of 1,2-diaryl-4-dimethylaminobutan-2-ols—II. The elimination of 1,2-diphenyl-4-dimethylaminobutan-2-ol and related compounds. 633
 Cava, M. P., Lee, W. S. and Barringer, D. F. Pleiadene systems—V. 1-Methylpleiadene. 4557
 Cavé, A., Kan-Fan, C., Potier, P. et Le Men, J. Modification de la réaction de Polonovski. Action de l'anhydride trifluoroacétique sur un aminoxyde. 4681
 Cavé, A., Kan-Fan, C., Potier, P., Le Men, J. et Janot, M. M. Oxydation de quelques amines tertiaires par l'anhydride chromique dans la pyridine. 4691
 Cavero, I. See Berti, G. 2295
 Cavill, G. W. K. and Hall, C. D. Favorskii rearrangement of the pulegone epoxides. 1119
 Ceder, O. and Hansson, B. Pimaricin—VII. The absolute configuration at C-25. 3753
 Čeković, Ž. See Mihailović, M. Lj. 215, 3095
 Chain, E. B. See Arcamone, F. 11
 Chakrabarti, B. See Sen, P. N. 4177
 Chakrabarti, P. See Barua, A. K. 1505
 Chakrabarty, M. R., Hanrahan, E. S. and Lepley, A. R. Molecular orbital calculations on 8-hydroxyquinoline and some of its aza-analogs. 2879
 Chakravarti, K. K. See Joshi, B. N. 1251
 Chakravarti, K. K. See Kamat, S. Y. 4487
 Chakravarti, K. K. See Sastry, S. D. 1997, 2491
 Chakravarti, K. K. See Seshadri, R. 1267
 Chan, R. P. K., Craig, J. Cymerman, Manske, R. H. F. and Soine, T. O. Optical rotatory dispersion and absolute configuration—XII. The argemonine alkaloids. 4209
 Chan, R. P. K. See Craig, J. Cymerman. 3573
 Chandrashekar, V., Krishnamurti, M. and Seshadri, T. R. A new approach to the synthesis of rotenoids. Synthesis of dehydromunduserone and dehydroelliptone. 2505
 Chang, C. W. J. See Moore, R. E. 3271
 Charney, E. See Ziffer, H. 3881
 Chatterjee, A. and Dutta, C. P. Alkaloids of *Piper longum* Linn—I. Structure and synthesis of piperlongumine and piperlonguminine. 1769
 Chatterjee, B. G. and Rao, V. Venkateswara. Synthesis of substituted β -lactams. 487
 Chatterjee, B. G., Rao, V. Venkateswara, Roy, S. K. and Chawla, H. P. S. Synthesis of substituted β - and γ -lactams. 493
 Chatterjee, B. G., Rao, V. Venkateswara and Moza, P. N. Some derivatives of β -lactams. 499
 Chaudhary, S. S. See Kovacic, P. 3563
 Chawla, H. P. S. See Chatterjee, B. G. 493
 Cheshire, M. V., Cranwell, P. A., Falshaw, C. P., Floyd, A. J. and Haworth, R. D. Humic acid—II. Structure of humic acids. 1669
 Cheuchit, P. See Jones, R. Alan. 4469
 Chiang, Y., Hinman, R. L., Theodoropoulos, S. and Whipple, E. B. The protonation of N-phenylpyrroles. 745
 Chierici, L. See Bocchi, V. 737
 Clar, E., McAndrew, B. A. and Zander, M. The establishment of double bond character in methyl derivatives of phenanthrene, pyrene, chrysene and coronene by NMR. 985
 Clemo, G. R. Some constituents of city smoke. 2389
 Coda, S. See Barbieri, W. 4395, 4409
 Coe, P. L., Croll, B. T. and Patrick, C. R. Aromatic polyfluoro-compounds—XXXV. 1,2,3,4-Tetrafluoroanthraquinone and some reactions of tetrafluorophthalic acid derivatives. 505
 Cohen, L. A. See Milne, G. W. A. 65
 Cohen, T. See Hand, E. S. 2911
 Coló, V. See Barbieri, W. 4395, 4409
 Comer, F. W., McCapra, F., Qureshi, I. H. and Scott, A. I. The structure and chemistry of hirsutic acid. 4761
 Comer, F. W. See Money, T. 3435
 Comin, J. See Pozzi, H. 1129
 Comin, J. See Sánchez, E. 1139
 Connolly, J. D., McCrindle, R., Overton, K. H. and Warnock, W. D. C. Tetranortriterpenoids—III. 6-Hydroxy- and 6-acetoxy-methyl angolensate from the heartwood of *Khaya grandifoliola*. 4035
 Cooks, R. G. See Bowie, J. H. 3743
 Cooks, R. G. See Williams, D. H. 3173
 Cooley, G. See Burgess, C. 4111
 Coombes, G. E. A., Grady, J. M. and Reid, S. T. Photochemical transformations—II. Photochemistry of 6-nitrocholesteryl acetate and related compounds. 1341
 Corsano, S. and Nicoletti, R. The structure of incensole. 1977

- Costanzo, S. J. and Jurinski, N. B. Charge transfer complexes of aluminum chloride. 2571
- Coxon, B., Jennings, H. J. and McLaughlan, K. A. Structures and conformations of D-glycero-pent-2-enopyranosyl derivatives and determination of the relative signs of some associated long-range proton coupling constants. 2395
- Coxon, J. M., Hartshorn, M. P. and Kirk, D. N. Reactions of epoxides—XIV. The preparation and some reactions of the 12,12'-epoxy-derivatives of 12 methylene-tigogenin. 3511
- Coxon, J. M. See Blunt, J. W. 1811
- Crabbé, P. and Klyne, W. Optical rotatory dispersion and circular dichroism of aromatic compounds: A general survey. 3449
- Crabbé, P. See Iriarte, J. 121
- Craig, J. Cymerman, Chan, R. P. K. and Roy, S. K. Optical rotary dispersion and absolute configuration—X. α - and β -phenylethylamines. 3573
- Craig, J. Cymerman. See Chan, R. P. K. 4209
- Craig, W. G. See ApSimon, J. W. 2339, 2357, 2375
- Cramer, F. und Rittersdorf, W. Die Hydrolyse von Phosphaten und Pyrophosphaten einiger Monoterpenalkohole. Modellreaktionen zur Biosynthese der Monoterpene. 3015
- Cramer, F. See Ritterdorf, W. 3023
- Cranwell, P. A. See Atherton, N. M. 1653
- Cranwell, P. A. See Cheshire, M. V. 1669
- Critchlow, A., Haslam, E., Haworth, R. D., Tinker, P. B. and Waldron, N. M. The oxidation of some pyrogallol and purpurogallin derivatives. 2829
- Croll, B. T. See Coe, P. L. 505
- Cromwell, N. H. See Imbach, J.-L. 3931
- Crosby, D. G. and Aharanson, N. The structure of carotatoxin, a natural toxicant from carrot. 465
- Cross, A. D. See Toube, T. P. 2061
- Cross, B. E. See Brown, J. C. 4095
- Crowe, D. F. See Tanabe, M. 2115
- Curran, A. C. W. See Buchanan, G. L. 4729
- Curtis, R. F. and Phillips, G. T. The absorption spectra and synthesis of some 2,2'-bithienyl derivatives. 4419
- Danieli, N., Mazur, Y. and Sondheimer, F. Synthesis in the terpene field—XIII. A new route to a key intermediate in the total synthesis of α -onocerin. 509
- Danieli, N., Mazur, Y. and Sondheimer, F. The 17 α -hydroxylation of cardenolides. Conversion of the cardenolide to the cortisone side-chain. 715
- Danieli, N. See Harnik, M. 3183
- Danyluk, S. S. See Blears, D. J. 2927
- Das, B. C. See Barua, A. K. 1505
- Das, B. C. See Heijenoort, J. van. 3403
- Davidson, M. See Delmau, J. 4371
- Davies, M. T. See Allison, J. M. 1515
- Davis, B. R. See Burkinshaw, G. F. 4147
- Davis, R. E., Grosse, D. and Ohno, A. Vibrational models for transition states. Methanal for methyl cation and ketones for their corresponding carbonium ions. 1029
- Davis, R. E. and Ohno, A. Methyl cation and model systems for carbonium ions. 1015
- Deady, L. W. Preparation of oxazine derivatives and 2,4-diarylpyrroles from methyl aryl ketoximes. 3505
- Delmau, J., Duplan, J.-C. et Davidson, M. Déplacement chimique des protons d'hétérocycles étudiés par résonance magnétique nucléaire. 4371
- Demarco, P. V. See ApSimon, J. W. 2339, 2357, 2375
- Denny, R. See Foote, C. S. 2583
- Deshpande, K. G. See Mehra, M. M. 2469
- Desimoni, G., Grünanger, P. and Vita Finzi, P. Polynuclear isoxazole types—I. Isoxazolo (4,5-d)-pyrimidines. 675
- Desimoni, G. and Vita Finzi, P. Polynuclear isoxazole types—II. Isoxazolo (4,5-d) pyridazines. 681
- Desimoni, G., Grünanger, P. and Vita Finzi, P. Polynuclear isoxazole types—III. The synthesis of isoxazolo (5,4-d) pyrimidines. 687
- De Sio, F. See Adembri, G. 4697
- Deulofeu, V. See Giacopello, D. 3265
- Dev, Sukh. See Gupta, A. S. 2481
- Dhar, M. M. See Nagpal, K. L. 1297
- Dietsche, W. H. Die Thioalkylierung von Phosphorchloriden durch Reaktion mit Xanthogensäureestern. 3049
- Dilling, M. L. See Dilling, W. L. 1225
- Dilling, W. L., Braendlin, Hans, P. and Mcbee, Earl T. Pentacyclodecane chemistry—II. Some reactions of dodecachloropentacyclo [5.3.0.0^{2,9}.0^{3,9}.0^{4,8}] decane and related compounds. 1211
- Dilling, W. L. and Dilling, M. L. Pentacyclodecane chemistry—III. Fragmentation patterns of pentacyclodecane derivatives on electron impact. 1225
- Di Maio, G. Ring enlargements—VI. Steric and electronic controls in ring enlargement reactions of the *cis*-8-methylhydrindanic system. 2291
- Di Maio, G. See Tardella, P. A. 2285
- Digual, G. See Barbieri, W. 4409
- Dixon, J. R. See Appleton, R. A. 805
- Dixon, J. R. See Baggaley, K. H. 299
- Djerassi, C. See Jackson, A. H. 603
- Djerassi, C. See MacLeod, J. K. 2095
- Djerassi, C. See Reusch, W. 2893
- Djerassi, C. See Tursch, B. 761
- Doering, W. von E., Ferrier, B. M., Fossel, E. T., Hartenstein, J. H., Jones, Jr. M., Klumpp, G., Rubin, R. M. and Saunders, M. A rational synthesis of bullvalene barbaralone and derivatives; bullvalone. 3943

- Dolby, J. and Sakai, S.** The C-D ring cleavage of dihydrocorynantheine derivatives. The partial synthesis of dihydroburnamicine. 1
- Dolejš, L. and Hanuš, V.** Mass spectrometry of rhoeadine type alkaloids. 2997
- Dominic, R.** See **Verter, H. S.** 3863
- Döppert, K.** See **Fahr, E.** 1379
- Döring, E.** See **Mann, G.** 3393
- Doughty, R. A.** See **Lillien, I.** 3321
- Douglas, J. L. and Money, T.** Pyrone studies—II. Biogenetic-type synthesis of phenolic compounds. 3545
- Downie, I. M.** See **Lee, J. B.** 359
- Dreiding, A. S.** See **Mabry, T. J.** 3111
- Dreyer, D. L.** Chemotaxonomy of the rutaceae—II. Extractives of *Severina buxifolia* (Poir.) Ten. 4613
- Dreyer, D. L. and Bertelli, D. J.** The structure of zapotin. 4607
- Dudek, E. P.** See **Dudek, G.** 3245
- Dudek, G. and Dudek, E. P.** Spectroscopic studies of keto-enol equilibria—X. Multiple hydrogen bonds. 3245
- Dudock, B. S.** See **Shamma, M.** 2887
- Duffield, A. M.** See **Tursch, B.** 761
- Duffin, H. C. and Tucker, R. B.** Kinetics of oxidation of substituted toluenes with chromyl chloride. 2803
- Dunkelblum, E.** See **Klein, J.** 205
- Dunlop, J. H. and Gillard, R. D.** Cotton effects and configuration in acidopentamine cobalt (III) complexes of asymmetric acids. 349
- Duplan, J.-C.** See **Delmau, J.** 4371
- Duquette, L. G. and Johnson, Francis.** The structures of the hydrogen halide salts of glutaronitrile and related compounds and their conversion to dihydropyridines. 4517
- Duquette, L. G. and Johnson, Francis.** The structures of the hydrogen halide salts of succinonitrile and related compounds. 4539
- Dutta, C. P.** See **Chatterjee, A.** 1769
- Dyatkin, B. L., Mochalina, E. P., Bekker, R. A., Sterlin, S. R. and Knunyants, I. L.** The addition of nitrosyl fluoride to fluoro-olefines. The reaction mechanism. 4291
- Dyke, S. F. and Sainsbury, M.** 1,2-dihydroisoquinolines—V. A simple benzo[c]phenanthridine ring synthesis. 3161
- Eberhardt, M. K.** Reactions of dihydroaromatic compounds—III. Iodine catalysed hydrogen transfer from 1,4-dihydrobenzene to styrene. 3029
- Eder, J.** see **Rembold, H.** 1387
- Edmundson, R. S. and Wrigley, J. O. L.** Cyclic organophosphorus compounds—IV. Cleavage of 1,3,2-dioxaphospholane and 1,3,2-dioxaphosphorinane rings by Grignard reagents. 283
- Edmundson, R. S.** See **Bartle, K. D.** 1701
- Ege, G. and Fischer, H.** Zur Konjugation in makrocyclischen Bindungssystemen—VI. SCF-MO-Berechnung der Bindungsabstände in makrocyclischen Bindungssystemen. 149
- Eggers, S. H.** See **Arndt, R. R.** 3521
- Eigendorf, G.** See **Kutney, J. P.** 4587
- Eisenthal, R., Katritzky, A. R. and Lunt, E.** The reaction of the isoxazolinopyridinium cation with amines. 2775
- Eitel, A.** See **Leitich, J.** 2221
- Elad, D.** See **Rosenthal, I.** 3193
- Elgamal, M. H. A. and Fayez, M. B. E.** Dehydration and solvolysis products from glycyrrhetic acid. 1633
- Ellestad, G. A., Kunstmann, M. P., Lancaster, J. E., Mitscher, L. A. and Morton, G.** Structures of methyl aldgargosides A and B obtained from the natural macrolide antibiotic aldgamycin E. 3893
- Emslie, P. H.** See **Foster, R.** 227
- van Es, T. and Whistler, R. L.** Derivatives of 5-deoxy-5-seleno-D-xylose. 2849
- Evans, J. M.** See **Appleton, R. A.** 805
- Evans, J. M.** See **Baggaley, K. H.** 299
- Fabian, J., Viola, H. und Mayer, R.** Quantitative Beschreibung der UV-S-Absorptionen einfacher Thiocarbonylverbindungen. 4323
- Fahr, E., Döppert, K. and Konigsdorfer, K.** Die Umsetzung von Diazoverbindungen mit Azoverbindungen—VI. Die Umsetzung der Silberverbindungen von Monoacylhydrazonen mit Acylchloriden zu 1,3,4-Oxadiazolinen bzw. Diacylhydrazonen. 1379
- Falshaw, C. P.** See **Cheshire, M. V.** 1669
- Farkas, L., Nógrádi, M., Sudarsanam, V. and Herz, W.** Constituents of *Iva* species—IX. Isolation, structure proof and synthesis of acerosin from *Iva acerosa* (Nutt) Jackson. 3557
- Farkas, L., Vermes, B. and Nógrádi, M.** The synthesis of wightin and echioidinin, two flavones from *Andrographis wightiana*. 741
- Farley, C. E.** See **Grayson, M.** 1065
- Fatutta, S.** See **Risaliti, A.** 1451
- Fayez, M. B. E.** See **Abu-Mustafa, E. A.** 1305
- Fayez, M. B. E.** See **Elgamal, M. H. A.** 1633
- Feather, P.** See **Burgess, C.** 4111
- Ferretti, A.** See **Arcamone, F.** 11
- Ferrier, B. M.** See **Doering, W. von E.** 3943
- Fetizon, M.** See **Wheeler, D. M. S.** 3909
- Finkelstein, M., Petersen, R. C. and Ross, S. D.** A new synthesis of *cis*-bicyclo (4.2.0) octane-7,8-diol. 3875
- Firestone, R. A., Harris, E. E. and Reuter, W.** Synthesis of pyridoxine by Diels-Alder reactions with 4-methyl-5-alkoxy oxazoles. 943
- Fischer, A., Hardman, M. J., Hartshorn, M. P. and Kirk, D. N.** Acid catalysed reactions of alcohols in acetic anhydride. 1647

- Fischer, A., Hardman, M. J., Hartshorn, M. P., Kirk, D. N. and Thawley, A. R. Reactions of 5 α -hydroxy steroids—VII. The Westphalen rearrangement of some 3 β -substituted -6 β -acetoxy-5 α -hydroxy cholestanes. 159
- Fischer, H. See Ege, G. 149
- Fischer, N. H. and Mabry, T. J. New pseudo-guaianolides from *Ambrosia confertiflora* DC. (Compositae). 2529
- Fischer, P. H. H. LCAO—MO calculations on verdazyls. 1939
- Fisher, J. F., Nordby, H. E., Waiss, Jr. A. C. and Stanley, W. L. A new coumarin from grapefruit peel oil. 2523
- Fleming, I and Williams, D. H. The NMR spectra of four-membered carbocyclic ring systems. 2747
- Floyd, A. J. See Atherton, N. M. 1653
- Floyd, A. J. See Cheshire, M. V. 1669
- Footo, C. S., Wuesthoff, M. T. and Burstain, I. G. Structure and stereochemistry of the ketoacids derived from menthofuran photoperoxide. 2601
- Footo, C. S., Wuesthoff, M. T., Wexler, S., Burstain, I. G., Denny, R., Schenck, G. O. and Schlute-Elte, K. H. Photosensitized oxygenation of alkyl-substituted furans. 2583
- Forchassin, M. See Risaliti, A. 1451
- Foreman, M. I. See Foster, R. 227
- Fort, Jr. R. C. and Lindstrom, T. R. Weak molecular interactions—I. Solvent effects on the proton magnetic resonance spectra of *t*-butyl and adamantyl halides. 3227
- Fossel, E. T. See Doering, W. von E. 3943
- Foster, R., Fyfe, C. A. and (in part) Emslie, P. H. and Foreman, M. I. Interaction of electron acceptors with bases—XXI. Further studies of the proton magnetic resonance spectra of Meisenheimer-like compounds. 227
- Fouquey, C. et Jacques, J. Détermination de la pureté optique d'un corps cristallin par une méthode calorimétrique. 4009
- Franchini, P. F. See Ademбри, G. 4697
- Frangopol, M., Genuche, A., Negoită, N., Frangopol, P. T. and Balaban, A. T. A study of the reversibility of Friedel-Crafts C-acetylations by means of ¹⁴C-labelling. 841
- Frangopol, M. See Balaban, A. T. 4661
- Frangopol, P. T. See Balaban, A. T. 4661
- Frangopol, P. T. See Frangopol, M. 841
- Frankle, M. See Knobler, Y. 1557
- Franklin, N. C. See Baumann, H. 4331
- Franklin, N. C. See Booth, H. 2421
- Friedrich, K. See Wallenfels, K. 1353, 1845
- Fromageot, H. P. M., Griffin, B. E., Reese, C. B. and Sulston, J. E. The synthesis of oligoribonucleotides—III. Monoacylation of ribonucleosides and derivatives *via* orthoester exchange. 2315
- Frumkis, H. See Harnik, M. 3183
- Fujita, S. See Nozaki, H. 45
- Fujita, T., Koshimizu, K. and Mitsui, T. Dipole moments of substituted 1-naphthoic acids and methyl 1-naphthoates. 2633
- Fyfe, C. A. See Foster, R. 227
- Gadekar, K. N. See Gogte, V. N. 2437, 2443
- Gaertner, V. R. Alkyl-2,3-epoxypropylamines Cyclodimerization and related eight-membered ring closures. 2123
- Gaffield, W. See Lyle, G. G. 51
- Galik, V. See Kuthan, J. 2215
- Ganguly, A. K., Govindachari, T. R. and Manmade, A. Boron trifluoride catalysed rearrangement of 1,2-epoxy lupan-3-one. 3847
- Ganguly, A. K., Joshi, B. S., Kamat, V. N. and Manmade, A. H. Synthesis of clausenin, xanthoxyletin, alloxanthoxyletin, xanthyletin and nor-dalbergin. 4777
- García Jiménez, F. and Pérezamador, M. C. Corymbosin, a glucoside from *Turbina corymbosa*. 2557
- Gardini, G. P. See Bocchi, V. 737
- Garratt, P. J., Scheinmann, F. and Sondheimer, F. Constituents of *Casimiroa edulis* Llave et Lex—VIII. The structures of zapotin and zapotinin. 2413
- Gaskell, A. J. and Joule, J. A. The acid catalysed C3 epimerization of reserpine and deserpidine. 4053
- Gatti, G., Segre, A. L. and Morandi, C. Configuration and conformation of 2,3-dimethyl-1,4-dioxan by NMR. 4385
- Geise, H. J., Altona, C. and Romers, C. Conformation of non-aromatic ring compounds—XXIV. On the geometry of the perhydrophenanthrene skeleton in some steroids. 439
- Genuche, A. See Frangopol, M. 841
- Gerstl, R. See Moss, R. A. 2549
- Ghatge, B. B. See Mehra, M. M. 2469
- Ghisalberti, E. L., Jefferies, P. R. and Mincham, W. A. 19 \rightarrow 20 Lactones of the kaurane series. 4463
- Giacoppello, D. and Deulofeu, V. Synthesis of hunnemanine. 3265
- Gidley, G. C. See Booth, H. 2421
- Gilardeau, C. See Allinger, N. L. 1569
- Gilbert, B. See Tursch, B. 761
- Gillard, R. D. See Dunlop, J. H. 349
- Gilon, C., Knobler, Y. and Sheradsky, T. Synthesis of ω -amonoxy acids by oxygen-alkyl fission of lactones. An improved synthesis of DL-canaline. 4441
- Gleicher, G. J. Calculations on the corannulene system. 4257
- Gogte, V. N., Shah, L. G., Tilka, B. D., Gadekar, K. N. and Sahastrabudhe, M. B. Synthesis of potential anticancer agents—I. Synthesis of substituted thiophenes. 2437
- Gogte, V. N., Tilak, B. D., Gadekar, K. N. and Sahastrabudhe, M. B. Synthesis of potential anticancer agents—II. Synthesis of hydroxymethylthiophene carboxylic acids and related compounds. 2443

- Goodman, M. See McGahren, W. J. 2017
- Goodman, M. and McGahren, W. J. Mechanistic studies of peptide oxazolone racemization. 2031
- Gopalakrishnan, P. V. See Thyagarajan, B. S. 3851
- Gordon, A. J. Acetylsalicylamide. O- to N-acetyl migration. 863
- Gordon, M. See Martin, D. J. 1831
- Goud, A. N. and Rajagopal, S. Furano compounds—IX. 4791
- Govindachari, T. R., Pai, B. R., Subramanian, P. S., Rao, U. R. and Muthukumaraswamy, N. Constituents of *Mesua ferrea* L.—I. Mesuaxanthone A and mesuaxanthone B. 243
- Govindachari, T. R., Pai, B. R., Subramaniam, P. S. and Subramanyam, V. A synthesis of evoxanthine. 1827
- Govindachari, T. R., Pai, B. R., Subramaniam, P. S., Rao, U. R. and Muthukumaraswamy, N. Constituents of *Mesua ferrea* L.—II. Ferruol A, a new 4-alkylcoumarin. 4161
- Govindachari, T. R., Rajappa, S., Akerkar, A. S. and Iyer, V. S. Hydroxamic acids and their derivatives—IV. Further studies on the use of esters of pivalohydroxamic acid for peptide synthesis. 4811
- Govindachari, T. R., Viswanathan, N., Pai, B. R., Rao, U. R., and Srinivasan, M. Triterpenes of *Calophyllum inophyllum* Linn. 1901
- Govindachari, T. R. See Ganguly, A. K. 3847
- Govindachari, T. R. See Joshi, B. S. 261, 267, 273
- Grady, J. M. See Coombes, G. E. A. 1341
- Graham, S. H. See Appleton, R. A. 805
- Graham, S. H. See Baggaley, K. H. 299
- Grant, R. R. See Aft, H. 1963
- Gray, R. T. and Smith, H. E. Terpenes—IV. The stereochemistry and optical rotatory dispersion curves of some cyclic ketones related to (–)-umbellulone. 4229
- Grayson, M. Farley, C. E. and Streuli, C. A. Secondary phosphine oxides. The effect of structure on acid strength and rates of cleavage of disulfides. 1065
- Griffin, B. E., Jarman, M., Reese, C. B. and Sulston, J. E. The synthesis of oligoribonucleotides—II. Methoxymethylidene derivatives of ribonucleosides and 5'-ribonucleotides. 2301
- Griffin, B. E. See Fromageot, H. P. M. 2315
- Griffin, C. E. See Martin, D. J. 1831
- Grimison, A. See Adam, W. 2513
- Grosse, D. See Davis, R. E. 1029
- Grünanger, P. See Desimoni, G. 675, 687
- Guiso, M. See Scarpati, M. L. 4709
- Gupta, A. S., Murthy, K. L. and Dev, Sukh. Friedel-Crafts condensation of ethyl allylmalonate with anisole. 2481
- Güsten, H. und Salzwedel, M. Die kernmagnetischen Resonanzspektren substituierter *trans*-Stilbene. 173
- Güsten, H. und Salzwedel, M. Die kernmagnetischen Resonanzspektren substituierter *cis*-Stilbene. 187
- Hageman, H. J. See Altona, C. 2265
- Halfar, K. See Schiele, C. 2693
- Hall, C. D. See Cavill, G. W. K. 1119
- Hall, E. S. McCapra, F. and Scott, A. I. Biogenetic-type synthesis of the calycanthaceous alkaloids. 4131
- Hanack, M., Schnedier, H.-J. und Schneider-Berndlöhr, H. Homoallylumlagerungen bei Pyrolysereaktionen. 2195
- Hanaoka, M. See Horii, Z. 1165
- Hand, E. S. and Cohen, T. Structural elucidation of the pentacyclic cinnoline obtained by the reaction of 1,4-naphthoquinone with hydrazine. 2911
- Handa, K. L. See Seshadri, T. R. 1883
- Handa, R. N. See Mukherji, S. M. 3859
- Hanrahan, E. S. See Chakrabarty, M. R. 2879
- Hanson, J. R. New metabolites of *Gibberella fujikuroi*—XII. Gibberellin A₁₅. 733
- Hanson, J. R. The chemistry of the tetracyclic diterpenoids—V. Stereochemical studies in the stachene series. 793
- Hanson, J. R. The chemistry of the tetracyclic diterpenoids—VI. The stereochemistry of some reactions of (–)-kaurene. 801
- Hanson, J. R. and Premuzic, E. Applications of chromous chloride—II. The reduction of some steroidal nitro-compounds. 4105
- Hanson, J. R. See Brown, J. C. 4095
- Hansson, B. See Ceder, O. 3753
- Hanstein, W. und Wallenfels, K. Über den Mechanismus der Wasserstoffübertragung mit Pyridinnukleotiden—XXVIII. Der Zusammenhang zwischen Bindungszustand in Dihydropyridinen und elektronenspektroskopischen Daten. 585
- Hanuš, V. See Dolejš, L. 2997
- Hardman, M. J. See Fischer, A. 159, 1647
- Hargreaves, J. R. See Hickmott, P. W. 3151
- Harnik, M., Hürzeler, E. and Jensen, E. V. Acetylation and trifluoroacetylation of steroids at carbon 16. 335
- Harnik, M. and Jensen, E. V. Reductions of 3,6-dimethoxyestratrapentaene and 3,6-dimethoxyestratrapentaene carboxylic acids. 1807
- Harnik, M., Lederman, Y., Frumkis, H. and Danielli, N. Application of 2-methyl-2-carboxymethyl-3-oxocyclopentanecarboxylic acid derivatives in steroid syntheses. 3183
- Harpold, M. A. See Hiskey, R. G. 3923
- Harris, E. E. See Firestone, R. A. 943
- Hartenstein, J. H. See Doering, W. von E. 3943
- Hartshorn, M. P. See Blunt, J. W. 1811
- Hartshorn, M. P. See Coxon, J. M. 3511
- Hartshorn, M. P. See Fischer, A. 159, 1647
- Hasan, M. See Butt, A. 2461
- Haslam, E. See Critchlow, A. 2829

- Hassan, M. M. A. See Casy, A. F. 4075
Havinga, E. See Altom, C. 2265
Havinga, E. See Schutte, L. 2281
Hawks, G. H. See Taylor, E. C. 2081
Haworth, R. D. See Atherton, N. M. 1653
Haworth, R. D. See Cheshire, M. V. 1669
Haworth, R. D. See Critchlow, A. 2829
Hayashi, F. See Kubota, T. 995
Hayashi, Y. See Sakan, T. 4635
Heffron, P. J. See Verbit, L. 3865
Heijenoort, J. van, Bricas, E., Das, B. C., Lederer, E. et Wolstenholme, W. A. Détermination de séquences d'acides aminés dans des oligopeptides par la spectrométrie de masse—IX. (A) Acylation avec de nouveaux radicaux mixtes; (B) Peptides contenant des acides aminés trifonctionnels. 3403
Heilbronner, E. and Straub, P. A. Slide rule computation of Hückel molecular orbitals. 845
Heinemann, H. See Kobrich, G. 565
Hendricks, D. See Schiele, C. 3733
Herz, W. See Farkas, L. 3557
Hesse, M. See Merlini, L. 3129
Hewgill, F. R. See Adderley, C. J. R. 4143
Hickmott, P. W. and Hargreaves, J. R. Reaction of α,β -unsaturated acid chlorides with enamines—I. Preparation of bicyclo(3.3.1)nonan-2,9-diones. 3151
Hikino, H., Aoto, K. and Takemoto, T. Identification of ketones in *Cyperus*. 2169
Hikino, H. See Itô, S. 553
Himmelreich, J. See Snatzke, G. 4337
Hinman, R. L. See Chiang, Y. 745
Hino, T., Nakagawa, M., Wakatsuki, T., Ogawa, K. and Yamada, S. 1-(3-Methyl-2-indolyl)pyridinium bromide. Synthesis and auto-oxidation of its catalytic hydrogenation product. 1441
Hinoh, H. See Kubota, T. 3333
Hirshfeld, A. See Mechoulam, R. 239
Hiskey, R. G. and Harpold, M. A. Chemistry of aliphatic disulfides—XIII. Formation of unsymmetrical disulfides from S-benzhydryl thioethers. 3923
Hof, H. A. Van't, Veenland, J. U. and De Boer, Th. J. On the mechanism of the cyclization of ψ -ionone with deuterated acids. 3757
Höhne, E., Ripperger, H. und Schreiber, K. Solanum-Alkaloide—LXXXII. Röntgenstrukturanalyse von Tomatidin-Hydrojodid. Zur Konfiguration der (25S)-spirosolane an C-22. 3705
Holifield, B. M. See Brady, W. T. 4251
Holzapfel, C. W. See Steyn, P. S. 4449
Homer, J. The effects of non-bonded interactions in solution on proton resonance shifts. 4065
Honda, Y. See Sakan, T. 4635
Honwad, V. K., Siscovic, E. and Rao, A. S. Terpenoids—C. Synthesis of tauremsin (vulgarin), and Saussurea lactone. 1273
Hopper, R. J. See Kovacic, P. 3965, 3977
Hori, T., Kiang, A. K., Nakanishi, K., Sasaki, S. and Woods, M. C. The structures of fibraurin and a minor product from *Fibraurea chloroleuca*. 2649
Horii, Z., Hanaoka, M., Yamawaki, Y., Tamura, Y., Saito, S., Shigematsu, N., Kotera, K., Yoshikawa, H., Sato, Y., Nakai, H. and Sugimoto, N. The total synthesis of securinine and virosecurinine. 1165
Hsi, N. See Karabatsos, G. J. 1079
Huang Yen, E. See Jefford, C. W. 4549
Huckerby, T. N., Mooney, E. F. and Stephens, R. *cis*-1H,1H,4H-Trifluorobuta-1,3-diene. The characterisation of a new conjugated diene by NMR spectroscopic analysis. 709
Hughes, A. N. and Woods, M. Reaction between triphenylphosphine and methyl 5-methoxyfuran-2,3,4-tricarboxylate. 2973
Hünig, S. and Kaupp, G. Azofarbstoffe durch oxydative Kupplung—XXVIII. Kinetik der Kupplung heterocyclischer Carbonyl und Sulfonylazo-quartärsalze mit Phenolen zu Diazamerocyaninen. 1411
Hürzeler, E. See Harnik, M. 335
Ikan, R. and Rapaport, E. Synthesis in the indole series—III. Preparation of 5-, 6-, and 7-cyano and -carboxyindolines and -indoles. 3823
Imbach, J.-L., Pohland, A. E. Weiler, E. D. and Cromwell, N. H. Nuclear magnetic resonance spectra of derivatives of various substituted indanones and tetralones. 3931
Inouye, Y., Sawada, S., Ohno, M. and Walborsky, H. M. Optical rotatory dispersion of *trans*-cyclohexane-1,2-dicarboxylic acid thionamide. 3237
Iorio, M. A. see Casy, A. F. 1405
Iriarte, J., Crabbé, P. et Bowers, A. Stéroïdes—CCXVI. Synthèse de nouveaux corticoïdes méthylés en position C-2. 121
Irie, T. see Katsui, N. 1185
Isola, M. see Marsili, A. 1037
Itô, S., Kodama, M., Nozoe, T., Hikino, H., Hikino, Y., Takeshita, Y. and Takemoto, T. Structures and absolute configuration of α -kessyl alcohol and kessyl glycol. 553
Ito, Y., Katsuragawa, S., Okano, M. and Oda, R. The α,β -addition of amide chlorides to various unsaturated bonds and the chemistry of the adducts. 2159
Ito, Y., Okano, M. and Oda, R. Reactions of P-ylides with sulphenes. 2137
Itoh, M. see Suzuki, A. 3621
Iwakura, Y., Toda, F. and Torii, Y. A novel preparation of pseudoxazolones. 3363
Iwasaki, M. Synthesis of chiogralactone. 2145
Iyer, V. S. see Govindachari, T. R. 4811
Iyer, V. S. see Nagarajan, K. 1049
Iyer, V. S. see Rajappa, S. 4805
Izawa, Y. see Ogata, Y. 1509

- Jackson, A. H., Kenner, G. W., Budzikiewicz, H., Djerassi, Carl and Wilson, J. M. Pyrroles and related compounds—X. Mass spectrometry in structural and stereochemical problems—XC. Mass spectra of linear di-, tri- and tetrapyrrolic compounds. 603
- Jacques, J. See Fouquey, C. 4009
- Jain, A. C., Rohatgi, V. K. and Seshadri, T. R. A novel synthesis of 3-phenyl-4-hydroxycoumarins. 2499
- Jakobsen, H. J. 5-Bromo- and 5-chloro-3 thiolen-2-one. Allylic rearrangement in 5-bromo-3-thiolen-2-one. 3737
- Jakobsen, H. J. and Lawesson, S.-O. Thiophene chemistry—XII. Synthesis and tautomeric structure of acetyl and carbethoxy chelated 2-hydroxythiophenes. 871
- Janot, M.-M. See Cavé, A. 4691
- Janzsó, G., Kállay, F., Koczor, I. and Radics, L. Stereochemistry of 3-hydroxy- and 3-acetoxyflavanone oximes. 3699
- Janzsó, G. See Kállay, F. 4317
- Jarman, M. See Griffin, B. E. 2301
- Jefferies, P. R. See Ghisalberti, E. L. 4463
- Jefford, C. W. and Huang Yen, E. The stereochemistry of the bicyclo[3.2.1]octane system—XII. The photohalogenation of bicyclo[3.2.1]octene-2 derivatives. 4549
- Jefford, C. W. and Medary, R. T. The stereochemistry of bicyclo[3.2.1]octane—XI. The addition of monohalocarbene to norbornene. 4123
- Jennings, H. J. See Coxon, B. 2395
- Jensen, E. V. See Harnik, M. 335, 1807
- Jeremić, D. See Mihailović, M. Lj. 3095
- Johnson, C. L. See Menger, F. M. 19
- Johnson, Francis. See Duquette, L. G. 4517, 4539
- Jones, D. W. See Bartle, K. D. 1701
- Jones, Jr. M. See Doering, W. von E. 3943
- Jones, R., Spotswood, T. McL. and Cheyuchit, P. Pyrrole studies—XII. The aromatic character of l-substituted pyrroles. 4469
- Jordaan, A. See Arndt, R. R. 3521
- Joseph, K. T. and Rao, G. S. Krishna Studies on the Diels-Alder reaction of maleic anhydride and β -*trans*-ocimene. 519
- Joseph, K. T. and Rao, G. S. Krishna Synthetic application of the Diels-Alder adduct of β -*trans*-ocimene and maleic anhydride—II. An approach towards the synthesis of valerenic acid. 3215
- Joseph-Nathan, P. See Romo, J. 529
- Joshi, B. N., Chakravarti, K. K. and Bhattacharyya, S. C. Terpenoids—XCVII. Base catalysed reactions with N-lithioethylene-diamine. 1251
- Joshi, B. S., Kamat, V. N. and Govindachari, T. R. Sesquiterpenes of *Neolitsea zeylanica* Merr.—I. Isolation of some constituents. 261
- Joshi, B. S., Kamat, V. N. and Govindachari, T. R. Sesquiterpenes of *Neolitsea zeylanica* Merr.—II. Structure of neolinderane. 267
- Joshi, B. S., Kamat, V. N. and Govindachari, T. R. Sesquiterpenes of *Neolitsea zeylanica* Merr.—III. Structure of zeylanine, zeylanicine and zeylanidine. 273
- Joshi, B. S., Kamat, V. N. and Saksena, A. K. Structures of clausenin and clausenidin, two new pyranocoumarins from the roots of *Clausena heptaphylla* Wt. & Arn. 4785
- Joshi, B. S. See Ganguly, A. K. 4775
- Joshi, G. D., Kadival, M. V., Kulkarni, S. N. and Bhattacharyya, S. C. Terpenoids—CIII. Synthesis of santanolide 'C', tetrahydroalantolactone, lactone of β -hydroxy eudesman-15-oic acid and (+) dihydrojunenone from eudesmol. 1985
- Joule, J. A. See Britten, A. Z. 1971
- Joule, J. A. See Gaskell, A. J. 4053
- Jurd, L. Anthocyanidins and related compounds—XI. Catechin-flavylium salt condensation reactions. 1057
- Jurinski, N. B. See Costanzo, S. J. 2571
- Kadival, M. V. Nair, M. S. R. and Bhattacharyya, S. C. Terpenoids—XCVI. Dehydration reaction of guaioi and dihydroguaioi and transformation of 1 α , 5 α -dihydroguaioi to 1 α , 5 α -hexahydrodehydrocostus lactone. 1241
- Kadival, M. V. See Joshi, G. D. 1985
- Kalbag, S. M., Nair, M. D., Rajagopalan, P. and Talaty, C. N. On the structure of the product of the reaction of 2-aminothiophenol with diethyl acetylene dicarboxylate. 1911
- Kállay, F., Janzó, G. and Koczor, I. The reactions of flavanone with substituted hydrazines. 4317
- Kállay, F. See Janzó, G. 3699
- Kalnins, V. See Miller, B. 1145
- Kalra, V. K., Kukla, A. S. and Seshadri, T. R. Syntheses of (\pm)-7,8,4'-trimethoxypterocarpan and (\pm)-7-hydroxy-8,4'-dimethoxypterocarpan. 3221
- Kalsi, P. S. See Seshadri, R. 1267
- Kamal, A. See Qureshi, A. Ali 3801
- Kamat, S. Y., Chakravarti, K. K. and Bhattacharyya, S. C. Terpenoids—CXIII. Synthesis of α -santalene, α -santalol, α -santallic acid and allied products. 4487
- Kamat, V. N. See Ganguly, A. K. 4777
- Kamat, V. N. See Joshi, B. S. 261, 267, 273, 4785
- Kamel, M., Ali, M. I. and Kamel, M. M. Studies in the benzotriazole series—III. Condensation of 2,4-dinitrochlorobenzene with benzotriazole derivatives. 2863
- Kamel, M., Allam, M. A. and Abou-Zeid, N. Y. Novel studies on 5-amino-2-methylnaphth(1,2)-imidazole and 5-amino-2-methyl-3-oxonaphth(1,2)-imidazole. 1863
- Kamel, M. M. See Kamel, M. 2863
- Kan-Fan, C. See Cavé, A. 4681, 4691
- Kanters, J. A., Kroon, J., Peerdeman, A. F. and Schoone, J. C. Conformation of some carboxylic acids and their derivatives. 4027

- Kaplan, M. and Stephen, A. M. Application of gas-liquid chromatography to the structural investigation of polysaccharides—II. The study of *Acacia* gums. 193
- Kaplan, M. L. See Murray, R. W. 1575
- Karabatsos, G. J. and Hsi, N. Structural studies by nuclear magnetic resonance—XI. Conformation and configurations of oxime O-methyl ethers. 1079
- Karabatsos, G. J. and Krumel, K. L. Structural studies by nuclear magnetic resonance—XII. Conformations and configurations of N-methylphenylhydrazones. 1097
- Karasawa, S. See Nakajima, T. 2189
- Katagiri, S. See Kitahara, Y. 3613
- Kato, M. See Sakan, T. 4635
- Kato, T., Yamanaka, H. and Shibata, T. Studies on ketene and its derivatives—XIII. Synthesis of β -aminocrotonamide and the structure of its pyrolysed product. 2965
- Katritzky, A. R. See Balaban, A. T. 4001
- Katritzky, A. R. see Eisenthal, R. 2775
- Katsui, N., Suzuki, Y., Kitamura, S. and Irie, T. 5,6-Dibromoprotocatechualdehyde and 2,3-dibromo-4,5-dihydroxybenzyl methyl ether. New dibromophenols from *Rhodomela larix*. 1185
- Katsuragawa, S. See Ito, Y. 2159
- Katz, T. J. See Okamura, W. H. 2941
- Kaupp, G. See Hunig, S. 1411
- Kawamatsu, Y. See Miyamoto, M. 421
- Kawanisi, M. See Nozaki, H. 2173, 3993
- Kawasaki, A. See Ogata, Y. 825
- Kawashima, K. See Miyamoto, M. 411, 421
- Keefer, L. K. See Lyle, G. G. 3253
- Kelkar, G. R. See Bawdekar, A. S. 1993
- Kemp, D. S. The N-ethylbenzisoxazolium cation—II. The mechanism of reactions of the cation with nucleophiles. 2001
- Kennard, O., Riva Pi Sanseverino, L. and Rollett, J. S. The molecular and crystal structure of 2 α -bromoarborinone. The structure of the triterpene arborinol. 131
- Kennedy, R. M. See Kupchan, S. M. 4563
- Kenner, G. W. See Jackson, A. H. 603
- Kessler, H. See Reiker, A. 3723
- Kheifets, G. M., Khromov-Borisov, N. V., Koltsov, A. I. and Volkenstein, M. V. The proton magnetic resonance spectra and the structure of 4,6-dihydroxypyrimidine and its derivatives. 1197
- Khorlin, A. J. See Kochetkov, N. K. 693
- Khromov-Borisov, N. V. See Kheifets, G. M. 1197
- Kiang, A. K. See Hori, T. 2649
- Kidwai, A. R. See Kohli, J. M. 3829
- King, D. R. See Burdon, J. 1347
- Kirk, D. N. See Blunt, J. W. 1811
- Kirk, D. N. See Coxon, J. M. 3511
- Kirk, D. N. See Fischer, A. 159, 1647
- Kishi, I. See Ogata, Y. 825
- Kitadani, M. See Yoshikoshi, A. 1175
- Kitahara, Y., Murata, I. and Katagiri, S. Electronic structure and spectrum of benzo[*g*]-sesquifulvalene. 3613
- Kitahara, Y. See Yoshikoshi, A. 1175
- Kitamura, S. See Katsui, N. 1185
- Klein, J. and Dunkelblum, E. The stereochemistry and rate of reduction of substituted cyclohexanones with diborane. 205
- Klumpp, G. See Doering, W. von E. 3943
- Klyne, W. See Crabbé, P. 3449
- Knobler, Y., Bonni, E. and Frankel, M. Cyclization reactions of N-carbamoyl and N-acyl derivatives of DL-homoserine. 1557
- Knobler, Y. See Glon, C. 4441
- Knunyants, I. L. See Dyatkin, B. L. 4291
- Kobayashi, K. See Masamune, T. 1591
- Kobayashi, T. See Takamizawa, M. 2959
- Kobayashi, Y. and Akamatsu, S. The aromatization of cyclohexanedione dioximes. 115
- Kobayashi, Y. and Wakamatsu, S. The aromatization of cyclohexanedione dioximes. 115
- Kobrich, G., Heinemann, H. und Zündorf, W. Stabile Carbenoide—XXI. Oligomere des "Isopropylidencarbens". 565
- Koch, E. Die Photolyse von Stickstoffwasserstoffsäure, Methyl and Äthylazid in Lösung. 1747
- Kochetkov, N. K., Khorlin, A. J. and Bochkov, A. F. A new method of glycosylation. 693
- De Kock, W. T. See Anderson, L. A. P. 4153
- Koczor, I. See Janzso, G. 3699
- Koczor, I. See Kállay, F. 4317
- Kodama, M. See Itô, S. 553
- Kohda, S. See Nakajima, T. 2189
- Kohl, H. See Tschesche, R. 1461
- Kohli, J. M., Zaman, A. and Kidwai, A. R. Separation and characterization of the alkaloids of *Sarcococca pruniformis*. 3829
- Koltsov, A. I. See Kheifets, G. M. 1197
- Kondo, E. and Mitsugi, T. Studies on the transformation of steroids by microorganisms—XI. Tertiary (5 β , 9 α , and 14 α) hydroxylations of etiocholanolone. 2153
- Kondô, K. See Nozaki, H. 545, 4279
- Konigsdorfer, K. See Fahr, E. 1379
- Korte, F. See Tavs, P. 4677
- Koshimizu, K. See Fujita, T. 2633
- Kotera, K. See Horii, Z. 1165
- Kovacic, P. and Chaudhary, S. S. Conversion of methylcyclohexane to 1-amino-1-methylcyclohexane by trichloramine-aluminum chloride. 3563
- Kovacic, P. and Hopper, R. J. Amination of *p*-cymene with trichloramine-aluminum chloride—VII. 3965
- Kovacic, P. and Hopper, R. J. 8-Amino-*p*-cymene from *p*-cymene-trichloramine-Aluminum chloride-*t*-butyl halide. Synthetic and theoretical aspects. 3977

- Kovács, O. K. J., Schneider, Gy., Láng, L. K. and Apjok, J. Neighbouring group participation—I. AcO-6 participation in the solvolysis of 2-hydroxymethylcyclohexanol derivatives. 4181
- Koyama, K., Susuki, T. and Tsutsumi, S. Free radical reactions in organic electrode processes—III. The reaction of aromatic hydrocarbons at platinum anode in acetonitrile solutions containing perchlorate supporting electrolytes. 2665
- Koyama, K., Susuki, T. and Tsutsumi, S. Free radical reactions in organic electrode processes—IV. Anodic oxidation of cyanide ions in the presence of aromatic hydrocarbons. 2675
- Koziara, A. See Zwierzak, A. 2243
- Krasnaya, Zh. A., Yufit, S. S., Levchenko, T. S. and Kucherov, V. F. A novel method of the synthesis of substituted furans with the use of acetylenic alkoxy β -ketoesters. 3687
- Krespan, C. G. Negative substituents in the Claisen rearrangement. 4243
- Krishna, B., Srivastava, S. C. and Mahadane, S. V. Electric dipole moment of amyl cinnamate, amyl phenylacetate, phenyl propyl butyrate, geranyl formate and glyceryl triacetate. 4801
- Krishnamurti, M. See Chandrashekar, V. 2505
- Kroon, J. See Kanters, J. A. 4027
- Krueger, P. J. and Skolik, J. Nuclear magnetic resonance studies of intramolecular hydrogen bonds in monocations of sparteine- and α -isosparteine-N-oxides. 1799
- Kruger, J. E. See Lee, C. C. 2539
- Krumel, K. L. See Karabatsos, G. J. 1097
- Kubota, T. and Hayashi, F. Studies on A-norsteroids—VI. Directing effects of the C₁₁-substituents on the addition of osmium tetroxide to steroidal $\Delta^{1,4}$ -3-ketones. 995
- Kubota, T., Tonami, F. and Hinoh, H. Triterpenoids from *Bupleurum falcatum* L.—I. The structure of saikogenins A, C and D. 3333
- Kubota, T. and Tonami, F. Triterpenoids from *Bupleurum falcatum* L.—II. Isolation of saikogenin B and longispinogenin. 3353
- Kucherov, V. F. See Krasnaya, Zh. A. 3687
- Kucherov, V. F. See Mursakulov, I. G. 1621
- Kudo, Y. See Mitsui, S. 4271
- Kugajevsky, I. See Bose, K. 957, 1489
- Kugatova-Shemyakina, G. P., Nikolaev, G. M. and Andreev, V. M. The stereochemistry and reactivity of unsaturated compounds—III. Reactivity of the double bond in Δ^3 -cyclohexene and Δ^4 -octalin derivatives relative to their conformations. 2721
- Kugatova-Shemyakina, G. P. and Nikolaev, G. M. The stereochemistry and reactivity of unsaturated compounds—IV. The UV and IR spectra of carbonyl-containing Δ^3 -cyclohexenes. 2987
- Kukla, A. S. See Kalra, V. K. 3221
- Kulkarni, S. N. See Joshi, G. D. 1985
- Kunstmann, M. P. See Ellestad, G. A. 3893
- Kupchan, S. M., Kennedy, R. M., Schleigh, W. R. and Ohta, G. Buxus alkaloids—XII. Benzamide alkaloids from *Buxus sempervirens* L. 4563
- Kursanov, D. N., Parnes, Z. N., Bassova, G. I., Loim, N. M. and Zdanovich, V. I. Ionic hydrogenation of the ethylene bond and the double bond of the carbonyl group. 2235
- Kutcherov, V. F. See Yanovskaya, L. A. 1311
- Kuthan, J. Petró, F. und Galik, V. Zur Konstitution der Sandarakopimarsäure—III. Ueber einige chemische Umwandlungen der Sandarakopimarsäure. 2215
- Kutney, J. P., Vlattas, I. and Eigendorf, G. Mass spectra of 6-aza and 11-aza steroids. 4587
- Lancashire, F. See Campbell, S. F. 4435
- Lancaster, J. E. See Ellestad, G. A. 3893
- Lancaster, J. E. See Zweig, A. 2577
- Láng, L. K. See Kovács, O. K. J. 4181
- Larsson, F. C. V. See Bowie, J. H. 3743
- Lawesson, S.-O. See Bowie, J. H. 305, 3743
- Lawesson, S.-O. See Jakobsen, H. J. 871
- Lawesson, S. O. See Williams, D. H. 3173
- Lederer, E. See Heijenoort, J. van. 3403
- Lederman, Y. See Harnik, M. 3183
- Lee, C. M. and Kruger, J. E. Evidence for protonated cyclopropane intermediates in the deamination of 1-pyropylamine and mechanistic implications of protonated cyclopropanes. 2539
- Lee, C. M., Trager, W. F. and Beckett, A. H. Corynantheidine-type alkaloids—II. Absolute configuration of mitragynine, speciociliatine, mitraciliatine and speciogynine. 375
- Lee, C. M. See Trager, W. F. 365, 1043
- Lee, J. B. and Downie, I. M. Sugar esters—IV. The preparation of chloroesters under essentially-neutral conditions. 359
- Lee, J. B. and Nolan, T. J. Sugars with potential antiviral activity—I. A new method for the preparation of glycofuranosyl chlorides and the synthesis of a mannosyl nucleoside. 2789
- Lee, W. S. See Cava, M. P. 4557
- Lefler, C. F. See Rosenthal, D. 3583
- Legler, G. and Quiring, B. Über die Einführung einer α -Sauerstofffunktion in ungesättigte Sechsringketone. 2683
- Leitch, J., Schuster, P. und Eitel, A. Zur acidität cyclischer Acylale substituierter Methylenmalonsäuren. Eine Klasse von ambidenten Säuren. 2221
- Le Men, J. See Cavé, A. 4681, 4691
- Lenard, K. See Taylor, E. C. 77
- Lepley, A. R. See Chakrabarty, M. R. 2879
- Letham, D. S., Shannon, J. S. and McDonald, I. R. C. Regulators of cell division in plant tissues—III. The identity of zeatin. 479
- Levchenko, T. S. See Krasnaya, Zh. A. 3687

- Lewis, S. N. and Popper, T. L. 3-Hydroxymethyl-4-aryl-4-hydroxybutanoic acid lactones. Podo-phyllotoxin analogs. 4197
- Liedhegener, A. See Regitz, M. 2701
- Liffson, S. See Bixon, M. 769
- Lillien, I. and Doughty, R. A. Nonplanar cyclo-butane—II. The methyl 3-isopropylcyclo-butancarboxylate system. 3321
- Lillya, C. P. See Bolger, B. J. 341
- Lin, T.-W. See De Selms, R. C. 1479
- Linda, P. and Marino, G. Relative reactivities of some furan and thiophene derivatives in the iodide- and tin tetrachloride-catalysed acetylations with acetic anhydride in dichloroethane. 1739
- Linda, P. See Calligaris, M. 813
- Lindstrom, T. R. See Fort, Jr., R. C. 3227
- Little, J. H. See Booth, H. 291
- Livi, O. See Berti, G. 2295
- Locksley, H. D., Moore, I. and Scheinmann, F. Extractives from Guttiferæ—VI. The significance of maclurin in xanthone biosynthesis. 2229
- Loev, B. See Taylor, E. C. 77
- van Lohuizen, O. E. See Mijs, W. J. 2253
- Loim, N. M. See Kursanov, D. N. 2235
- Loudon, A. G. See Bevan, C. W. L. 3809
- Lukashevich, V. O. Rearrangement of hydrazo compounds. 1317
- Lukasiewicz, A. Reactions of trihalogenoacetic acids—V. Preparation of water-soluble derivatives of α -(trihalogenomethyl) amines. 1713
- Lunt, E. See Eisenthal, R. 2775
- Lyle, G. G. and Gaffield, W. Rotatory dispersion studies—V. The cinchona alkaloids. 51
- Lyle, G. G. and Keefer, L. K. The configurations at C-9 of the cinchona alkaloids. NMR spectral study of the derived oxiranes. 3253
- Mabry, T. J., Wyler, H., Parikh, I. and Dreiding, A. S. The conversion of betanidin and betanin to neobetandin derivatives. 3111
- Mabry, T. J. See Fischer, N. H. 2529
- Mackor, A. See Wajer, Th. A. J. W. 4021
- MacLeod, J. K., Thomson, J. B. and Djerassi, C. Mass spectrometry in structural and stereochemical problems—CXXII. Possible operation of tautomerism before and after electron-impact induced fragmentation of molecular ions. 2095
- MacMillan, J. and Suter, P. J. The structure of a C_{12} -acid from the seed of *Phaseolus multiflorus*. 2417
- Madhav, R. See Singh, H. 4795
- Madsen, P. See Bowie, J. H. 305
- Madsen, P. See Williams, D. H. 3173
- Magoon, E. F. and Slauch, L. H. Reduction of acetylenes and conjugated diolefins by lithium aluminum hydride. 4509
- Mahadane, S. V. See Krishna, B. 4801
- Maheswari, M. L. See Sastry, S. D. 1997, 2491
- Maheshwari, M. L. See Shanbhag, S. N. 1235
- Majerski, Z., Nikoletić, M., Borčić, S. and Sunko, D. E. The "bicyclobutonium ion". Reaction of (1-methylcyclopropyl)carbonyl and 1-methylcyclobutyl methanesulfonates with sodium borohydride under solvolytic conditions. 661
- Maksimović, Z. See Mihailović, M. Lj. 3095
- Malhotra, A., Murti, V. V. S. and Seshadri, T. R. Lanceolarin, a new isoflavone glycoside of *Dalbergia lanceolaria*. 405
- Mamuzić, R. I. See Mihailović, M. Lj. 215
- Manawwar, Z. See Butt, A. 2461
- Manhas, M. S. See Bose, A. K. 4769
- Manmade, A. H. See Gangully, A. J. 3847, 4777
- Mann, G. Konformation und physikalische Daten von Alkanen und Cyclanen—I. Über lineare Beziehungen zwischen der Konformation und den physikalischen Daten isomerer Kohlenwasserstoffe. 3375
- Mann, G., Mühlstädt, M., Braband, J. und Döring, E. Konformation und physikalische Daten von Alkanen und Cyclanen—II. Einfach und zweifach verzweigte Alkane. 3393
- Manske, R. H. F. See Chan, R. P. K. 4209
- Marathe, K. G. See Bolger, B. J. 341
- Marino, G. See Calligaris, M. 813
- Marino, G. See Linda, P. 1739
- Marshall, J. T. B. and Williams, D. H. Studies in mass spectrometry—XVIII. The relative ease of loss of alkyl radicals from ethylene acetals and ketals upon electron impact. 321
- Marsili, A. and Isola, M. Condensation of 2-benzoylbenzoic acid with phenylactic acid. A new simple route to pentaphene. 1037
- Martin, D. J., Gordon, M. and Griffin, C. E. Phosphonic acids and esters—XVIII. Preparation of β,γ -unsaturated phosphonates by the Stobbe condensation with diethyl β -carbethoxyethylphosphonate; stereochemical dependencies of homoallylic ^{31}P - ^1H spin-spin coupling constants. 1831
- Martin-Smith, M. See Bryce, T. A. 1283
- Masamune, T., Sato, N., Kobayashi, K., Yamazaki, I. and Mori, Y. Syntheses and NMR spectra of 22,27-imino-17,23-oxidojervane derivatives. 1591
- Mason, J. (Banus) and Mason, S. F. The electronic absorption and circular dichroism spectra, and the absolute stereochemistry of the tris-catechyl-arsenate(V) ion. 1919
- Mason, S. F., Vane, G. W. and Whitehurst, J. S. The circular dichroism and absolute configuration of argemonine. 4087
- Mason, S. F. See Mason, J. (Banus). 1919
- Mathieson, D. W. See ApSimon, J. W. 2339, 2357, 2375
- Mathur, R. K., Ramaswamy, S. K., Rao, A. S. and Bhattacharyya, S. C. Terpenoids—CVIII. Isolation of an oxidodiol from *Zanthoxylum rhetsa*. 2495

- Mathur, R. K. and Rao, A. S. Terpenoids—XCVIII. Synthesis of (\pm) 4-demethylhydroeudesmol and (\pm)-*trans*-5 α ,9 β -dimethyl-2-decalone. 1259
- Matić, R. See Mihailović, M. Lj. 3095
- Matubara, S. See Nozaki, H. 545
- Mayer, R. See Fabian, J. 4323
- Mazur, Y. See Danielli, N. 509, 715
- McAndrew, B. A. See Clar, E. 985
- McBee, Earl T. See Dilling, W. L. 1211
- McCabra, F. See Comer, F. W. 4761
- McCabra, F. See Hall, E. S. 4131
- McCarthy, E. D. and Calvin, M. The isolation and identification of the C₁₇ saturated isoprenoid hydrocarbon 2,6,10-trimethyltetradecane from a Devonian shale. The role of squalane as a possible precursor. 2609
- McCorkindale, N. J. See Bryce, T. A. 3427
- McCrae, J. M. See Buchanan, G. L. 279, 4729
- McCrinkle, R. See Connolly, J. D. 4035
- McDonald, I. R. C. See Letham, D. S. 479
- McGahren, W. J. and Goodman, M. Synthesis of peptide oxazolones and related compounds. 2017
- McGahren, W. J. See Goodman, M. 2031
- McKillop, A. See Taylor, E. C. 885, 891, 897, 2081
- McLauchlan, K. A. see Coxon, B. 2395
- McLay, G. W. See Buchanan, G. L. 4729
- McMorris, T. C. and Anchel, M. The structure of the basidiomycete *ortho* quinone, phlebiarubrone, and of its novel acetylation product. 3985
- Mechoulam, R. and Hirshfeld, A. The synthesis of zapotidine. 239
- Medary, R. T. See Jefford, C. W. 4123
- Medyantzeva, E. A. See Minkin, V. I. 3651
- Mehra, M. M., Deshpande, K. G., Ghatge, B. B. and Bhattacharyya, S. C. Terpenoids—CV. Transformation products of alantolactones. 2469
- Meier, H., Müller, Eu. and Suhr, H. Kernresonanzuntersuchungen zum Mills-Nixon-Effekt Ringstromdefekt bei Benzolmolekülen mit ankondensierten gesättigten Ringen. 3713
- Menger, F. M. and Johnson, C. L. Intramolecular catalysis in the hydrolysis of *p*-nitrophenyl *o*-methanesulfonamidobenzoate. 19
- Merlini, L., Mondelli, R., Nasini, G. and Hesse, M. Indole alkaloids from gambir. Structure of gambirtannine, oxogambirtannine and dihydrogambirtannine. 3129
- Metzinger, G. See Scharf, H.-D. 3067
- Meyers, A. I. and Sircar, J. C. Azasteroids—VI. A facile total synthesis of DL-8-azaestrone methyl ether and related systems. 785
- Mihailović, M. Lj., Mamuzić, R. I., Žigić-Mamuzić, Lj., Bošnjak, J. and Čeković, Ž. Assignment of *cis-trans* configuration to constitutionally symmetrical 2,5-dialkyl-tetrahydrofurans. 215
- Mihailović, M. Lj., Živković, L., Maksimović, Z., Jeremić, D., Čeković, Ž. and Matić, R. The reaction of lead tetraacetate with some acyclic alcohols containing phenyl groups. 3095
- Mihailović, M. Lj. See Stojiljković, A. 721
- Mijs, W. J., van Lohuizen, O. E., Bussink, J. and Vollbracht, L. The catalytic oxidation of 4-aryloxyphenols. 2253
- Miki, M. See Suzuki, A. 3621
- Mikolajczyk, M. Stereochemistry of nucleophilic displacement reactions at the thiophosphoryl centre—II. Hydrolysis of optically active *O*-ethyl ethylphosphonochloridothionate. 1543
- Miller, B. and Kalnins, M. V. Reactions of halogenated acrylonitrile derivatives with arylsulfinate salts. A novel chain shortening reaction. 1145
- Milne, G. W. A. and Cohen, L. A. The nuclear magnetic resonance and mass spectra of derivatives of cycloserine. 65
- Mincham, W. A. see Ghisalberti, E. L. 4463
- Minkin, V. I., Zhdanov, Yu. A., Medyantzeva, E. A. and Ostroumov, Yu. A. The problem of acoplanarity of aromatic azomethines. 3651
- Mitscher, L. A. See Ellestad, G. A. 3893
- Mitsugi, T. See Kondo, E. 2153
- Mitsui, S. and Kudo, Y. Asymmetric synthesis of 3-hydroxy-3-phenylvaleric acid. 4271
- Mitsui, T. see Fujita, T. 2633
- Miyamoto, M., Kawamatsu, Y., Kawashima, K., Shinohara, M., Tanaka, K., Tatsuoka, S. and Nakanishi, K. Chromomycin A₂, A₃ and A₄. 421
- Miyamoto, M., Morita, K., Kawamatsu, Y., Kawashima, K. and Nakanishi, K. The stereochemistry of chromomycinone and a note on the benzoate rule. 411
- Miyashi, T. See Mukai T. 1613
- Mochalina, E. P. See Dyatkin, B. L. 4291
- Möhrle, H. See Baumann, H. 4331
- Molton, P. See Bird, C. W. 4117
- Molyneux, R. J. See Aft, H. 1963
- Mondelli, R. See Merlini, L. 3129
- Money, T., Comer, F. W., Webster, G. R. B., Wright, I. G. and Scott, A. I. Pyrone studies—I. Biogenetic-type synthesis of phenolic compounds. 3435
- Money, T. See Douglas, J. L. 3545
- Mooney, E. F. See Brown, P. J. N. 4047
- Mooney, E. F. See Huckerby, T. N. 709
- Moore, I. See Locksley, H. D. 2229
- Moore, R. E., Singh, H., Chang, C. W. J. and Scheuer, P. J. Polyhydroxynaphthoquinones. Preparation and hydrolysis of methoxyl derivatives. 3271
- Morandi, C. See Gatti, G. 4385
- Morgan, E. D. Synthesis of *p*-alkylphenylacetic acids. 1735
- Morgan, E. D. See Smutny, E. J. 3785
- Mori, Y. See Masamune, T. 1591
- Morita, K. See Miyamoto, M. 411
- Morita, K. See Ochiai, M. 2641

- Morita, Z. See Nozaki, H. 4279
Moritani, I. See Murahashi, Shun-Ichi. 3631
Morton, G. See Ellestad, G. A. 3893
Moss, R. A. and Gerstl, R. Stereoselectivity of carbene intermediates—III. Fluorochloro-carbene. 2549
Moza, P. N. See Chatterjee, B. G. 499
Mühlstädt, M. See Mann, G. 3393
Mukai, T. and Miyashi, T. Organic photochemistry—II. Photochemical reaction of 5-phenyltropolone and its methyl ether. 1613
Mukherji, S. M., Handa, R. N. and Sharma, K. S. Polynuclear aromatic hydrocarbons—X. Synthesis of tetraphene by the Robinson–Mannich reaction. 3859
Müller, Eu. See Meier, H. 3713
Murahashi, S. and Moritani, I. Carbenoid reaction. The reaction of dibromodiphenylmethane 9,9-dibromofluorene and 9,9-dichloro-9H-tribenzo[a.c.e.]cycloheptene with alkyl lithium in the presence of olefins. 3631
Murai, F. See Sakan, T. 4635
Murata, I. See Kitahara, Y. 3613
Murata, K. See Sato, T. 1791
Murphy, J. W. See Toube, T. P. 2061
Murray, A. W. and Bradshaw, R. W. Constituents of *Leucadendron* species—I. A chemical investigation of the structure of leucodrin. 1929
Murray, A. W. and Bradshaw, R. W. Constituents of *Leucadendron* species—II. The chemistry of leucodrin. 2333
Murray, R. W. and Kaplan, M. L. Ring inversion in 1,1,4,4-tetramethylcyclohexane. 1575
Mursakulov, I. G., Semenovsky, A. V., Smit, W. A. and Kucherov, V. F. Cyclization of isoprenoid compounds. Stereochemistry of the addition to the terminal(2,3) double bond. 1621
Murthy, K. L. See Gupta, A. S. 2481
Murti, V. V. S., Raman, P. V. and Seshadri, T. R. Cupressufflavone, a new biflavonyl pigment. 397
Murty, V. V. S. See Malhotra, A. 405
Murty, V. K., Rao, T. V. P. and Venkateswarlu, V. Chemical examination of *Cassia fistula*. 515
Murty, V. K., Rao, T. V. P. and Venkateswarlu, V. Chemical examination of *Embelia ribes*—VIII. Some condensation reactions of rapanone with various aldehydes and nitroso compounds. 817
Mustafa, A., Sidky, M. M. and Soliman, F. M. Reactions with organophosphorus compounds—III. Reaction of di-, and trialkyl phosphites with 1,2,3-indantrione, and 2-benzylidene-1,3-indandione. 99
Mustafa, A., Sidky, M. M. and Soliman, F. M. Reactions with organophosphorus compounds—IV. Reaction of di-, and trialkyl phosphites with 1,2-benzophenazine-3,4-quinone. 107
Muthukumaraswamy, N. See Govindichari, T. R. 243, 4161
Nagai, T. See Shirota, Y. 639
Nagai, T. See Takeuchi, H. 1783
Nagarajan, K. and Nair, M. D. Solvent and temperature dependence of the NMR spectra of N-formyl and N-thioacetylindolines. 4493
Nagarajan, K., Nair, M. D. and Pillai, P. M. Configuration of the amide bond in N-acylindolines and N-acyltetrahydroquinolines. 1683
Nagarajan, K., Rajappa, S. and Iyer, V. S. Hydroxamic acids and their derivatives—II. Reaction of hydroxamic acids with dicyclohexyl carbodiimide. 1049
Nagarajan, K. See Rajappa, S. 4805
Nagpal, K. L. and Dhar, M. M. 4-Chloroethylaminopyrimidines and the formation of imidazolidino[1,2-c]pyrimidines on acid treatment of 4-bis- β -hydroxyethylaminopyrimidines. 1297
Nair, M. D. See Kalbag, S. M. 1911
Nair, M. D. See Nagarajan, K. 1683, 4493
Nair, M. S. R. See Kadival, M. V. 1241
Nakagawa, M. See Hino, T. 1441
Nakai, H. See Horii, Z. 1165
Nakajima, M. See Sakan, T. 4635
Nakajima, T., Kohda, S., Tajiri, A. and Karasawa, S. The electronic structures and spectra of triafulvene, triafulvalene and calicene. 2189
Nakamura, K. See Nozaki, H. 4279
Nakanishi, K. See Hori, T. 2649
Nakanishi, K. See Miyamoto, M. 441, 421
Nakata, B. T. See Castro, A. J. 4499
Nasini, G. See Merlini, L. 3129
Nath, N. See Srivastava, R. K. 1189
Nathan, P. J. See Romo, J. 29
Neglia, M. T. See Zweig, A. 2577
Negoita, N. See Balaban, A. T. 4661
Negoita, N. See Frangopol, M. 841
Neumann, C. L. See Allinger, N. L. 1279
Nicoletti, R. See Corsano, S. 1977
Nielsen, J. I. See Veibel, S. 1723
Nikolaev, G. M. See Kugatova-Shemyakina, G. P. 2721, 2987
Nikoletić, M., Borčić, S. and Sunko, D. E. Secondary hydrogen isotope effects—IX. Solvolysis rates of methyl and methyl- d_3 substituted cyclopropylcarbonyl and cyclobutyl derivatives. 649
Nikoletić, M. See Majerski, Z. 661
Nishimura, A. See Sato, T. 1791
Nishiwaki, T. Electron impact study on simple pyrimidines—III. Further examples on the fragmentation of 2-aminopyrimidines. 1153
Nishiwaki, T. Mass spectra of organophosphorus compounds—II. Rearrangements in carboalkoxyalkylphosphonates. 2181
Nishiwaki, T. 5-Halogenopyrimidines—V. Solvent effects on the NMR spectra of pyrimidines and consideration on the association of 4-hydroxypyrimidines. 2657
Nishiwaki, T. Some reactions and mass spectra of 2-acylthiophenes. 2979

- Nisikawa, Y. See Nozaki, H. 2173
 Nógrádi, M. See Farkas, L. 741, 3557
 Nolan, T. J. See Lee, J. B. 2789
 Nordby, H. E. See Fisher, J. F. 2523
 Noyori, R. See Nozaki, H. 45, 2173, 3645, 3993
 Nozaki, H., Aratani, T. and Noyori, R. Reduction of gem-dibromocyclopropanes with chromium(II) sulphate. 3645
 Nozaki, H., Fujita, S., Takaya, H. and Noyori, R. Photochemical reaction of ethyl azidofornate with cyclic ethers and acetals. 45
 Nozaki, H., Nisikawa, Y., Kawanisi, M. and Noyori, R. The *cis-trans* isomerization of twelve-membered cyclic olefins. 2173
 Nozaki, H., Tunemoto, D., Matubara, S. and Kondô, K. Sulphonium and oxosulphonium carbalkoxymethylides. 545
 Nozaki, H., Tunemoto, D., Morita, Z., Nakamura, K., Watanabe, K., Takaku, M. and Kondo, K. Preparative and structural studies on certain sulphur-ylides. 4279
 Nozaki, H., Yamaguti, Z., Okada, T., Noyori, R. and Kawanisi, M. Photochemistry of certain non-enolizable *p*-diketones. 3993
 Nozoe, T. See Itô, S. 553
- Obayashi, M. See Ochiai, M. 2641
 Ochiai, M., Obayashi, M. and Morita, K. A new 1,3-dipolar cycloaddition reaction. Synthesis of some isoxazolidine derivatives. 2641
 Oda, R. See Ito, Y. 2137, 2159
 Oda, R. See Tabushi, I. 2621
 Ogata, Y., Izawa, Y. and Tomioka, H. The photochemical addition of monochloramine to cyclohexene. 1509
 Ogata, Y., Kawasaki, A. and Kishi, I. Kinetics of the Tischenko reaction of acetaldehyde with aluminium isopropoxide. 825
 Ogata, Y. and Sawaki, Y. The formation of peracids by the perhydrolysis with alkaline hydrogen peroxide. 3327
 Ogata, Y., Tezuka, H. and Sawaki, Y. Kinetics of the nitric acid oxidation of benzaldehydes to benzoic acid. 1007
 Ogawa, K. See Hino, T. 1441
 Ohno, A. See Davis, R. E. 1015, 1029
 Ohno, M. See Inouye, Y. 3237
 Ohta, G. See Kupchan, S. M. 4563
 Okada, T. See Nozaki, H. 3993
 Okamura, W. H. and Katz, T. J. The 4-azapentalenyl anion. 2941
 Okano, M. See Ito, Y. 2159, 2137
 Okano, M. See Tabushi, I. 2621
 Ollis, W. D., Rhodes, C. A. and Sutherland, I. O. The extractives of *Millettia dura* (Dunn). The constitutions of durlletone, durmillone, milldurone, millettone and millettosin. 4741
 Ortega, A. See Romo de Vivar, A. 3903
 Osske, G. See Bryce, T. A. 1283
 Ostroumov, Yu. A. See Minkin, V. I. 3651
 Othman, A. A., Qasseem, M. A. and Rogers, N. A. J. Dihydroaromatic compounds in the Diels-Alder reaction—I. A model for atisine synthesis. 87
 Ōtsuka, H. and Shōji, J. Structural studies on the minor components of quinoxaline antibiotics. 1535
 Overton, K. H. See Adolphen, G. 3147
 Overton, K. H. See Connolly, J. D. 4035
 Owen, A. J. The HMO treatment of the O—NO₂, N—NO₂ and C—NO₂ groups. 1857
- Pachler, K. G. R. and Underwood, W. G. E. A proton magnetic resonance study of some pterocarpan derivatives. The conformation of the 6a,11a-dihydro-6H-benzofuro [3,2-c] [1] benzopyran ring system. 1817
 Pachler, K. G. R. See Anderson, L. A. P. 4153
 Pai, B. R. See Govindachari, T. R. 243, 1827, 1901, 4161
 Palamidessi, G. See Barbieri, W. 4395, 4409
 Parikh, I. See Mabry, T. J. 3111
 Parnes, Z. N. See Kursanov, D. N. 2235
 Patel, M. B. See Bevan, C. W. L. 3809
 Patnekar, S. G. and Bhattacharya, S. C. Terpenoids—XCIV. Synthesis of novel longifolane derivatives via oxidation with lead tetraacetate. 919
 Patrick, C. R. See Coe, P. L. 505
 Peerdeman, A. F. See Kanters, J. A. 4027
 Pérezamador, M. C. See García Jiménez, F. 2557
 Petersen, R. C. See Finkelstein, M. 3875
 Petrow, V. See Allison, J. M. 1515
 Petrow, V. See Burgess, C. 4111
 Petrú, F. See Kuthan, J. 2215
 Philben, E. M. See Bolger, B. J. 341
 Phillips, G. T. See Curtis, R. F. 4419
 Phillipson, J. D. See Trager, W. F. 1043
 Pilgram, K. O,O-dimethyl -S-(2,4-dinitrophenyl) thiophosphat. 3007
 Pillai, P. M. See Nagarajan, K. 1683
 Pillinger, C. T. See Ballantine, J. A. 1691
 Pocha, P. See Casy, A. F. 603
 Pochini, A. See Cardillo, B. 3771
 Pohland, A. E. See Imbach, J.-L. 3931
 Pojarlieff, I. G. Kinetics of cyclization of 3-ureidopropionic acid to dihydrouracil in hydrochloric acid. 4307
 Popper, T. L. See Lewis, S. N. 4197
 Potapov, V. M. Neue Anwendungen der Spektralpolarimetrie. 4357
 Potier, P. See Cavé, A. 4681
 Potier, P. See Cavé, A. 4691
 Pozzi, H., Sánchez, E. and Comin, J. Studies on Argentine plants—XXII. Heliettin, a new furocoumarin from *Helietta longifoliata* Britt. 1129
 Premuzic, E. See Hanson, J. R. 4105
 Preobrazhenskaya, M. N., Vigdorchik, M. M. and Suvorov, N. N. Glycosylindoles—VII. Synthesis of 1-(d- β -ribofuranosyl) indole. 4653

- Qasseem, M. A. See Othman, A. A. 87
Quiring, B. See Legler, G. 2683
Qureshi, A. Ali, Rickards, R. W. and Kamal, A. Studies in the biochemistry of micro-organisms—VI. The structure and stereochemistry of the phthalan curvulol, and other metabolic products of *Curvularia Siddiqui*. 3801
Qureshi, I. H. See Comer, F. W. 4761
- Radics, L. See Janzso, G. 3699
Raff, L. M. See Berlin, K. D. 965
Rajagopal, S. See Goud, A. N. 4791
Rajagopalan, P. and Talaty, C. N. Synthesis of 4-hydroxy-, 4-chloro-, 4-amino- and 4-substituted aminoisoxazolo[5,4-d]pyrimidines. 3541
Rajagopalan, P. See Kalbag, S. M. 1911
Rajappa, S., Nagarajan, K. and Iyer, V. S. Hydroxamic acids and their derivatives—III. Preparation of esters of pivalohydroxamic acid and their use in peptide synthesis. 4805
Rajappa, S. See Govindachari, T. R. 4811
Rajappa, S. See Nagarajan, K. 1049
Raju, R. Ramakrishnam. See Row, L. Ramachandra. 879
Ramachandran, S. See Ramakrishnan, V. T. 2453
Ramakrishnan, V. T., Ramachandran, S., Venkataramani, P. S. and Swaminathan, S. Hydration of some bicyclic ethynyl alcohols and derivatives. 2453
Raman, P. V. See Murti, V. V. S. 397
Ramanathan, J. D. See Bhatia, V. K. 1363
Ramaswamy, S. K. See Mathur, R. K. 2495
Ramirez, F., Bhatia, S. B. and Smith, C. P. Reaction of trialkyl phosphites with aromatic aldehydes. Carbon-carbon condensations from the reaction of *p*-nitrobenzaldehyde and of *o*-nitrobenzaldehyde with trialkyl phosphites—new routes to glycol phosphates. 2067
Rao, A. S. See Honwad, V. K. 1273
Rao, A. S. See Mathur, R. K. 1259, 2495
Rao G. S. R., Subba. See Row, L. R. 1915
Rao, G. S. Krishna. See Joseph, K. T. 519, 3215
Rao, G. S. Krishna. See Subramanian, L. R. 4167
Rao, R. Bhima. See Thyagarajan, B. S. 1893, 3205, 3533
Rao, T. V. P. See Murty, V. K. 515, 817
Rao, U. R. See Govindachari, T. R. 243, 1901, 4161
Rao, V. Venkateswara. See Chatterjee, B. G. 487, 493, 499
Rapaport, E. See Ikan, R. 3823
Redaelli, S. See Arcamone, F. 11
Reed, R. I. and Takhistov, V. V. Electron impact and molecular dissociation—XVI. β -Keto esters. 2807
Reed, R. I. and Takhistov, V. V. Electron impact and molecular dissociation—XVIII. The low energy spectra of β -keto-esters. 4425
Rees, A. H. See Bevan, C. W. L. 3809
Reese, C. B. See Fromageot, H. P. M. 2315
Reese, C. B. See Griffin, B. E. 2301
Regitz, M. and Liedhegener, A. Reaktionen aktiver Methylenverbindungen mit Aziden—XV. Synthese von Diazocyclopentadienen durch Diazogruppenübertragung und einige Reaktionen. 2701
Reid, S. T. See Coombes, G. E. A. 1341
Reiker, A. und Kessler, H. NMR-Studien an Chinonanilen der Einfluss paraständiger Substituenten im Phenylring auf die thermische Isomerisierung. 3723
Rembold, H. und Eder, J. Synthese von Amino-biopterin und Aminocopterin. 1387
Reusch, W. and Djerassi, Carl. Mass spectrometry in structural and stereochemical problems—CXVII. Aliphatic α,β -epoxyketones. 2893
Reusch, W. and Mattison, P. The Favorskii rearrangement of pulegone oxide. 1953
Reuter, W. See Firestone, R. A. 943
Rhodes, C. A. See Ollis, W. D. 4741
Ricca, A. See Cardillo, B. 3771
Richardson, A. C. and Williams, J. M. Selective acylation of pyranosides—II. Benzoylation of methyl 6-deoxy- α -L-galactopyranoside and methyl 6-deoxy- α -L-mannopyranoside. 1641
Richardson, A. C. See Williams, J. M. 1369
Rickards, R. W. See Qureshi, A. Ali. 3801
Riddell, F. G. and Robinson, M. J. T. Conformational effects in compounds with six-membered rings—VI. Conformational equilibria in 5-alkyl-1,3-dioxanes. 3417
Rios, T., Romo de Viva, A. and Romo, J. Stevin, a new pseudoguanolid isolated from *Stevia rhombifolia* H.B.K. 4265
Ripperger, H. and Schreiber, K. Untersuchungen zur optischen Rotationsdispersion und zum Circular dichroismus—VII. Zur absoluten Konfiguration von (–)- β -Pipicolin. 1841
Ripperger, H. See Höhne, E. 3705
Risaliti, A., Fatutta, S. and Forchiassin, M. Vinylamines—VII. More substituted alkylated enamines from cyclohexanone enamines and phenyl vinyl sulfone. 1451
Rittersdorf, W. and Cramer, F. Die Hydrolyse von 2,3-dihydroterpenylphosphaten und -pyrophosphaten. 3023
Rittersdorf, W. See Cramer, F. 3015
Riva Di Sanseverino, L. See Kennard, O. 131
Rivett, D. E. A. and Woolard, G. R. The structure of euryopsonol. 2431
Roberts, B. M. and Saunders, B. C. Studies in peroxidase action—XVI. A chemical synthesis of the mesidine peroxidation product. 1335
Robinson, M. J. T. See Riddell, F. G. 3417
Robinson, R. See Smutny, E. J. 3785
Rochlitz, J. Neue Reaktionen der carcinogenen Kohlenwasserstoffe—II. 3043
Rodríguez, G. See Adam, W. 2513

- Roest, B. C., Veenland, J. U. and de Boer, Th. J. The acid-catalysed reactions of ψ -ionone in water. 3071
- Rogers, W. A. J. See Othman, A. A. 87
- Rohatgi, V. K. See Jain, A. C. 2499
- Rollett, J. S. See Kennard, O. 131
- Romers, C. See Geise, H. J. 439
- Romo, J., Joseph-Nathan, P., Romo De Vivar, A. and Alvarez, C. The structure of peruvinin—A pseudo-guaianolide isolated from *Ambrosia peruviana* Willd. 529
- Romo, J., Romo De Vivar, A. and Nathan, P. J. The constituents of *Zaluzana augusta*. The structures of zaluzanins A and B. 29
- Romo, J. See Ríos, T. 4265
- Romo, J. See Romo De Vivar, A. 3903
- Romo de Vivar, A., Cabrera, A., Ortega, A. and Romo, J. Constituents of zaluzania species—II. Structures of zaluzanin C and zaluzanin D. 3903
- Romo de Vivar, A., See Ríos, T. 4265
- Romo de Vivar, A. See Romo, J. 29, 529
- Rosenthal, D., Lefler, C. F. and Wall, M. E. Steroids—LXXVIII. The lead tetraacetate oxidation of a 5-hydroxy-B-norsteroid. 3583
- Rosenthal, I. and Elad, D. The photalkylation of cyclic ethers. 3193
- Ross, S. D. See Finkelstein, M. 3875
- Row, L. Ramachandra and Raju, R. Ramakrishnam. Chemistry of terminalia species—XI. Isolation of 3,4,3'-O-trimethyl flavellagic acid from *Terminalia paniculata* Roth. 879
- Row, L. Ramachandra. See Sastry, C. Prakasa. 3837
- Row, L. R., Satyanarayana, P. and Rao G. S. R., Subba. Crystalline constituents of Euphorbiaceae—VI. The synthesis and absolute configuration of phyllanthin. 1915
- Roy, S. K. See Chatterjee, B. G. 493
- Roy, S. K. See Craig, J. Cyerman. 3573
- Rubin, R. M. See Doering, W. von E. 3943
- Ruch, M. See Schiele, C. 3733
- Rummens, F. H. A. and Bellaart, A. C. The structure of "asodichinyl". 2735
- Sadovskaya, V. L. See Wulfson, N. S. 3667
- Sahasrabudhe, M. B. See Gogte, V. N. 2437, 2443
- Sainsbury, M. See Dyke, S. F. 3161
- Saito, S. See Horii, Z. 1165
- Sakai, S. See Dolby, J. 1
- Sakakibara, H. See Takamizawa, M. 2959
- Sakan, T., Murai, F., Hayashi, Y., Honda, Y., Shono, T., Nakajima, M. and Kato, M. Structure and stereochemistry of boschniakine, boschnialactone, and boschnialinic acid, an oxidation product of boschnialactone. 4635
- Saksena, A. K. See Joshi, B. S. 4785
- Salzwedel, M. See Gülsten, H. 173, 187
- Sanchez, E. and Comin, J. Studies on Argentine plants—XXIII. Quaternary bases from *Colletia spinosissima* Gmel. 1139
- Sanchez, E. See Pozzi, H. 1129
- Sanderson, W. A. See Brauman, J. I. 37
- De Sarlo, F. The preparation and tautomerism of 3,4-dimethyl-isoxazolin-5-one. 831
- Sarti-Fantoni, P. See Adembri, G. 4697
- Sasaki, S. See Hori, T. 2649
- Sastry, C. S. Prakasa and Row, L. Ramachandra. New triterpenes from *Barringtonia acutangula* Gaertn.—III. The constitution of tanginol, a new hexahydroxy triterpene. 3837
- Sastry, S. D., Maheswari, M. L., Chakravarti, K. K. and Bhattacharya, S. C. Terpenoids—CVI. The structure of calerenol. 1997
- Sastry, S. D., Maheswari, M. L., Chakravarti, K. K. and Bhattacharyya, S. C. Terpenoids—CVII. The structure of nardostachone. 2491
- Sato, N. See Masamune, T. 1591
- Sato, T., Murata, K., Nishimura, A., Tsuchiya, T. and Wasada, N. Pyrolysis of organic compounds—II. The flash pyrolysis of camphor and its related compounds. 1791
- Sato, Y. See Hori, Z. 1165
- Satyanarayana, P. See Row, L. R. 1915
- Saunders, B. C. and Wodak, J. Studies in peroxidase action—XV. Mechanism of the peroxidase oxidation of mesidine. 473
- Saunders, B. C. and Stark, B. P. Studies in peroxidase action—XVII. Some general observations. 1867
- Saunders, B. C. See Roberts, B. M. 1335
- Saunders, L. See ApSimon, J. W. 2339, 2357
- Saunders, M. Medium and large rings superimposable with the diamond lattice. 2105
- Saunders, M. See Doering, W. von E. 3943
- Sawada, S. See Inouye, Y. 3237
- Sawaki, Y. See Ogata, Y. 1007, 3327
- Scarpati, M. L. and Guiso, M. Iridoids—II. Lamioside from *Lamium amplexicaule*. 4709
- Scharf, H.-D. Photosensibilisierte Dimerisierung verbrückter cycloaliphatischer Olefine zu Kohlenwasserstoffen der Nonacyclotetra- und -hexacosanreihe. Präparative photochemische Synthesen—VIII. 3057
- Scharf, H.-D. and Metzinger, G. Massenspektrometrische Untersuchungen an einigen Verbrückten polycyclischen Kohlenwasserstoffen. 3067
- Scheinmann, F. See Garratt, P. J. 2413
- Scheinmann, F. See Locksley, H. D. 2229
- Schenck, G. O. See Foote, C. S. 2583
- Scheuer, P. J. See Moore, R. E. 3271
- Schiele, C., Halfar, K. and Arnold, G. Zur Struktur von Formazanen. 2693
- Schiele, C., Ruch, M. and Hendriks, D. Über Spirane der Pyridinreihe. 3733
- Schill, F. See Vetter, W. 3079
- Schleigh, W. R. See Kupchan, S. M. 4563
- Schneider, Gy. See Kovács, O. K. J. 4181
- Schneider, H.-J. See Hanack, M. 2195
- Schneider-Bernlöhner, H. See Hanack, M. 2195
- Schoone, J. C. See Kanters, J. A. 4027

- Schrage, K. Die UV-Licht Induzierte Addition von N-Chlorurethan an Bicyclo[2.2.1]hepten-2. 3033
- Schrage, K. Die Addition von N-Chlorurethan und N,N-Dichlorurethan an Buten-2. 3039
- Schreiber, J. See Ripperger, H. 1841
- Schreiber, K. See Adam, G. 167
- Schreiber, K. See Bryce, T. A. 1283
- Schreiber, K. See Höhne, E. 3705
- Schroll, G. See Bowie, J. H. 305, 3743
- Schroll, G. See Williams, D. H. 3173
- Schulster-Elte, K. H. See Foote, C. S. 2583
- Schuster, P. See Leitch, J. 2221
- Schutte, L. and Havinga, E. Investigations into a possible ^{14}C isotope effect in photodissociations. 2281
- Scott, A. I. See Comer, F. W. 4761
- Scott, A. I. See Hall, E. S. 4131
- Scott, A. I. See Money, T. 3435
- Segnini, D. See Berti, G. 2295
- Segre, A. L. See Gatti, G. 4385
- De Selms, R. C. and Lin, T.-W. Reactions of dichlorocarbene and trichloromethide with O-alkenyl esters and ethers, N-vinyl amides, nd 1-haloalkenes. 1479
- Semenovsky, A. V. See Mursakulov, I. G. 1621
- Semple, B. M. See Balaban, A. T. 4001
- Sen, P. N., Chakrabarti, B. and Bose, S. K. Huckel calculations on decacyclene. 4177
- Seshadri, R., Kalsi, P. S., Chakravarti, K. K. and Bhattacharyya, S. C. Terpenoids—XCIX. Structure and absolute configuration of khusinoloxide. A new antipodal sesquiterpene epoxy alcohol from vetiver oil. 1267
- Seshadri, T. R., Sood, M. S., Handa, K. L. and Vishapaul. Chemical components of the roots of *Selinum vaginatum*—I. Coumarins of the petroleum ether extract. 1883
- Seshadri, T. R. See Bhatia, V. K. 1363
- Seshadri, T. R. See Chandrashekar, V. 2505
- Sesmuty, T. R. See Jain, A. C. 2499
- Seshadri, T. R. See Kalra, V. K. 3221
- Seshadri, T. R. See Malhotra, A. 405
- Seshadri, T. R. See Murti, V. V. S. 397
- Seshadri, T. R. See Singh, H. 4795
- Shachidayatov, Ch. See Yanovskaya, L. A. 1311
- Shah, L. G. See Gogte, V. N. 2437
- Shamma, M., Shine, R. J. and Dudock, B. S. Thalictum alkaloids—IV. Three new alkaloids from *T. fendleri*: Thalidezine, thaliporphine, and precocoteine. 2887
- Shamma, M. and Shlursarchyk, W. A. The problem of the 1,2,9,10-tetraoxygenated aporphines and the structure of the quaternary aporphine from *Fagara tinguassoiba*. 2563
- Shanbhag, S. N., Maheshwari, M. L. and Bhattacharyya, S. C. Terpenoids—XCV. Synthesis of (\pm)-*cis*-suksdorfin and related products from jatamansinone. 1235
- Shannon, J. S. See Letham, D. S. 479
- Sharma, K. S. See Mukherji, S. M. 3859
- Shemyakin, M. M. See Bergelson, L. D. 2709
- Sheradsky, T. See Gilon, C. 4441
- Shibata, T. See Kato, T. 2965
- Shigematsu, N. See Horii, Z. 1165
- Shine, R. J. See Shamma, M. 2887
- Shinohara, M. See Miyamoto, M. 421
- Shirota, Y., Nagai, T. and Tokura, N. The reaction of benzylsulfonyl halides with phenyllithium. Preparation of sulfones. 639
- Shōji, J. See Ōtsuka, H. 1535
- Shono, T. See Sakan, T. 4635
- Shvo, Y. See Taylor, E. C. 2081
- Sidky, M. M. See Mustafa, A. 99, 107
- Sieper, H. See Bennet, J. E. 1697
- Singh, H., Madhav, R., Seshadri, T. R. and Subramanian, G. B. V. Structural investigation of lac resin—II. 4795
- Singh, H. See Moore, R. E. 3271
- Singh, M. P. See Srivastava, R. K. 1189
- Sircar, J. C. See Meyers, A. I. 785
- Siscovic, E. See Honwad, V. K. 1273
- Skattebøl, L. Chemistry of gem-dihalocyclopropanes—VI. A novel synthesis of cyclopentadienes and fulvenes. 1107
- Skolik, J. See Krueger, P. J. 1799
- Slater, G. and Somerville, A. W. Syntheses from pyridine aldehydes—II. 2823
- Slaugh, L. H. See Magoon, E. F. 4509
- Slinckx, G. and Smets, G. Kinetics of the vinyl interchange reaction between benzoic acid and vinyl acetate. 1395
- Slusarchyk, W. A. See Shamma, M. 2563
- Smith, C. P. See Ramirez, F. 2067
- Smith, G. F. See Britten, A. Z. 1971
- Smith, H. E. See Gray, R. T. 4229
- Smith, M. B. and Becker, W. E. The constitution of the Grignard reagent—III. The reaction between R_2Mg and MgX_2 in tetrahydrofuran. 4215
- Smets, G. See Slinckx, G. 1395
- Smit, W. A. See Mursakulov, I. G. 1621
- Smutny, E. J., Turner, W., Morgan, E. D. and Robinson, R. The reaction of trithione and its salts with amines. 3785
- Snatzke, G. and Himmelreich, J. Circular dichroismus—XXIII. Cotton-effekt einiger Heterocyclisch substituierter Steroidketone, deren Vorstufen und des Azo-Chromophors. 4337
- Soime, T. O. See Chan, R. P. K. 4209
- Soliman, F. M. See Mustafa, A. 99, 107
- Somerville, A. W. See Slater, G. 2823
- Sondheimer, F. See Danielli, N. 509, 715
- Sondheimer, F. See Garratt, P. J. 2413
- Sood, M. S. See Seshadri, T. R. 1883
- De Souza Guimãraes, I. S. See Tursch, B. 761
- Spotswood, T. McL. See Jones, R. Alan. 4469
- Srinivasan, M. See Govindachari, T. R. 1901
- Srivastava, R. K., Nath, N. and Singh, M. P. Kinetics and mechanism of oxidation of some disaccharides—melibiose, cellobiose, lactose and maltose—by hexacyanoferrate(III) in alkaline medium. 1189
- Srivastava, S. C. See Krishna, B. 4801

- Stanley, W. L. See Fisher, J. F. 2523
- Stanovnik, B. and Tišler, M. Synthesis of pyridazine derivatives—VIII. Imidazo(1,2-b)pyridazines and some tricyclic aza analogs. 387
- Stanovnik, B. and Tišler, M. Synthesis of pyridazine derivatives—XIII. Formation of some substituted imidazo (1.2b) pyridazines. 2739
- Stark, B. P. See Saunders, B. C. 1867
- Steinberg, H. See Wijnen, W. Th. van. 3763
- Stephen, A. M. and Vogt, D. C. Application of gas-liquid chromatography to the structural investigation of polysaccharides—III. The gum of *Acacia karroo* Hayne. 1473
- Stephen, A. M. See Kaplan, M. 193
- Stephens, R. See Brown, P. J. N. 4041
- Stephens, R. See Campbell, S. F. 4435
- Stephens, R. See Huckerby, T. N. 709
- Sterlin, S. R. See Dyatkin, B. L. 4291
- Steyn, P. S. and Holzapfel, C. W. The synthesis of ochratoxins A and B. Metabolites of *Aspergillus ochraceus* Wilh. 4449
- Stojiljković, A., Andrejević, V. and Mihailović, M. Lj. The reaction of lead tetraacetate with primary and secondary amines containing an α -methylene groups. 721
- Straub, P. A. See Heilbronner, F. 845
- Streuli, C. A. See Grayson, M. 1065
- Strickson, J. A. and Brooks, C. A. The oxidation of phenols with chromyl chloride—I. Phenol, chlorophenols and related phenoxytrichlorosilanes. 2817
- Subramanian, G. See Bryce, T. A. 1283
- Subramanian, G. B. V. See Singh, H. 4795
- Subramanian, L. R. and Krishna Rao, G. S. Transformation reactions of α -pinene—I. Reactions of ethyl (–)-2,2-dimethyl-3-ketocyclobutyl acetate. 4167
- Subramaniam, P. S. See Govindachari, T. R. 243, 1827, 4161
- Subramanyam, V. See Govindachari, T. R. 1827
- Sudarsanam, V. See Farkas, L. 3557
- Sugimoto, N. See Horii, Z. 1165
- Suhr, H. See Meier, H. 3713
- Sulston, J. E. See Fromageot, H. P. M. 2315
- Sulston, J. E. See Griffin, B. E. 2301
- Sundberg, R. J. The proton magnetic resonance spectra of some aromatic nitroso compounds. 1583
- Sunko, D. E. See Majerski, Z. 661
- Sunko, D. E. See Nikoletić, M. 649
- Susuki, T. See Koyama, K. 2665
- Susuki, T. See Koyama, K. 2675
- Suter, P. J. See MacMillan, J. 2417
- Sutherland, I. O. See Ollis, W. D. 4741
- Suvorov, N. N. See Preobrazhenskaya, M. N. 4653
- Suzuki, A., Miki, M. and Itoh, M. Hydrogenolysis of bicyclic monoterpene epoxides in the presence of Raney nickel and determination of the structures of α - and β -3,4-epoxy caranes. 3621
- Suzuki, Y. See Katsui, N. 1185
- Swaminathan, S. See Ramakrishnan, V. T. 2453
- Tabushi, I., Takagi, K., Okano, M. and Oda, R. Addition-cyclization of vinyl diazomethane with unsaturated compounds. 2621
- Tahk, F. C. See Autrey, R. L. 901
- Tajiri, A. See Nakajima, T. 2189
- Takagi, K. See Tabushi, I. 2621
- Takahashi, H. See Takamizawa, M. 2959
- Takaku, M. See Nozaki, H. 4279
- Takamizawa, M., Takahashi, H., Sakakibara, H. and Kobayashi, T. Some degradations of calycanthine. 2959
- Takaya, H. See Nozaki, H. 45
- Takemoto, T. See Hikino, H. 2169
- Takemoto, T. See Itô, S. 553
- Takeshita, Y. See Itô, S. 553
- Takeuchi, H., Nagai, T. and Tokura, N. The reaction of anthracene with sulfur dioxide in the presence of benzoyl peroxide. The formation of anthracene sulfones. 1783
- Takhistov, V. V. See Reed, R. I. 2807, 4425
- Talaty, C. N. See Kalbag, S. M. 1911
- Talaty, C. N. See Rajagopalan, P. 3541
- Tamura, Y. See Horii, Z. 1165
- Tanabe, M. and Crowe, D. F. The synthesis of steroidal β ,2 β -methylene derivatives. 2115
- Tanaka, K. See Miyamoto, M. 421
- Tardella, P. A. and Di Maio, G. Ring enlargements—V. The Baeyer-Villiger oxidation of *cis*-8-methylhydrindan-1-one. 2285
- Tatlow, J. C. See Brown, P. J. N. 4041
- Tatlow, J. C. See Burdon, J. 1347
- Tatlow, J. C. See Campbell, S. F. 4435
- Tatsuoka, S. See Miyamoto, M. 421
- Tavs, P. und Korte, F. Zur Herstellung aromatischer Phosphonsäureester aus Arylhalogeniden und Trialkylphosphiten. 4677
- Tavs, P. See Bennett, J. E. 1697
- Taylor, E. C., Lenard, K. and Loev, B. Tetrahydrocannabinol analogs. Synthesis of 2-(3-methyl-2-octyl)-3-hydroxy-6,6,9-trimethyl-7,8,9,10-tetrahydrodibenzo(b,d)pyran. 77
- Taylor, E. C. and McKillop, A. A new synthesis of diethyl β -keto adipate. 897
- Taylor, E. C., McKillop, A., Shvo, Y. and Hawks, G. H. Heterocyclic syntheses from *o*-amino-nitriles—XXVIII. Synthesis of some benzo(*f*)- and benzo(*h*)quinazolines. 2081
- Taylor, E. C., McKillop, A. and Vromen, S. A simple, one-step synthesis of fused pyrimidinedithiones. 885
- Taylor, E. C., McKillop, A. and Warrenner, R. N. Heterocyclic synthesis from *o*-aminonitriles—XXVII. A one-step synthesis of fused pyrimidinedithiones. 891
- Tebby, J. C. See Allen, D. W. 2795
- Tertzakian, G. See Castro, A. J. 4499
- Tezuka, H. See Ogata, Y. 1007
- Thawley, A. R. See Fischer, A. 159

- Theobald, D. W. On the methylation of (+)-carvone—I. 2767
- Theodoropoulos, S. See Chiang, Y. 745
- Thomson, J. B. See MacLeod, J. K. 2095
- Thyagarajan, B. S., Balasubramanian, K. K. and Rao, R. Bhima. Studies in Claisen rearrangement—IV. 4-Phenoxymethyl- Δ^3 -chromene as an intermediate in the formation of 6H-benzofuro(3,2-c) [1]-(11a,6a-dihydro-11amethyl)(benzopyran. 1893
- Thyagarajan, B. S., Balasubramanian, K. K. and Rao, R. Bhima. Studies in Claisen rearrangement—V. Ortho Claisen rearrangement of symmetrical 1,4-diaryloxy-trans-2-butenes. 3205
- Thyagarajan, B. S., Balasubramanian, K. K. and Rao, R. Bhima. Studies in Claisen rearrangement—VI. Ortho Claisen rearrangement of dissymmetrical 1,4-diaryloxy-trans-2-butenes. 3533
- Thyagarajan, B. S. and Gopalakrishnan, P. V. Studies on quinolizones—IV. Formylation of 4H-quinolizin-4-one and some selective cationoid displacements. 3851
- Tibbetts, M. S. See Bose, A. K. 3887
- Tilak, B. D. See Gogte, V. N. 2437, 2443
- Tilney-Bassett, J. F. See Belf, L. J. 4719
- Tinker, P. B. See Critchlow, A. 2829
- Tišler, M. See Stanovnik, B. 387, 2739
- Toda, F. See Iwakura, Y. 3363
- Tokura, N. See Shirota, Y. 639
- Tokura, N. See Takeuchi, H. 1783
- Tomioka, H. See Ogata, Y. 1509
- Tomko, J. See Adam, G. 167
- Tonami, F. See Kubota, T. 3333, 3353
- Torgov, I. V. See Wulfson, N. S. 3667
- Torii, Y. See Iwakura, Y. 3363
- Toubé, T. P., Murphy, J. W. and Cross, A. D. The structures of edulitine and edulinine—XXIV. Spectra and stereochemistry. 2061
- Trager, W. F., Lee, C. M. and Beckett, A. H. Corynantheidine-type alkaloids—I. Establishment of physical criteria for the *normal*, *pseudo*, *allo* and *epiallo* configuration by conformational analysis. 365
- Trager, W. F., Lee, C. M., Phillipson, J. D. and Beckett, A. H. The absolute configuration of paynantheine and hirsutine. 1043
- Trager, W. F. See Lee, Calvin, M. 375
- Tschesche, R., Baumgarth, M. and Wetzel, P. Diganolglykoside—XIV. Partialsynthese von Desacylkondurangogenin A². 249
- Tschesche, R., Kohl, H. and Wetzel, P. Diganolglykoside—XVI. Die Struktur der Kondurangenine A und C. 1461
- Tschesche, R. and Werner, W. Evocarpin, ein neues Alkaloid aus *Evodia rutaecarpa*. 1873
- Tsuchiya, T. See Sato, T. 1791
- Tsuchiya, T. See Wasada, N. 4623
- Tsutsumi, S. See Koyama, K. 2665
- Tsutsumi, S. See Koyama, K. 2675
- Tucker, R. B. See Duffin, H. C. 2803
- Tunemoto, D. See Nozaki, H. 545, 4279
- Turner, W. See Smutny, E. J. 3785
- Tursch, B., De Souza Guimarães, I. S., Gilbert, B., Aplin, R. T., Duffield, A. M. and Djerassi, Carl. Chemical studies of marine invertebrates—II. Terpenoids—LVIII. Griseogenin, a new triterpenoid sapogenin of the sea cucumber *Halodeima grisea* L. 761
- Tushaus, L. A. See Allinger, N. L. 2051
- Underwood, W. G. E. See Pachler, K. G. R. 1817
- Vane, G. W. See Mason, S. F. 4087
- Vassová, A. See Adam, G. 167
- Veenland, J. U. See Hof, H. A. Van't. 3757
- Veenland, J. U. See Roest, B. C. 3071
- Veibel, S. and Nielsen, J. I. On the mechanism of the Guerbet reaction. 1723
- Venkataramani, P. S. See Ramakrishnan, V. T. 2453
- Venkateswarlu, V. See Murty, V. K. 515
- Venkateswarlu, V. See Murty, V. K. 817
- Verbit, L. and Heffron, P. J. Optically active aromatic chromophores—V. Circular dichroism studies of β -aryl-carboxylic acids. 3865
- Vermes, B. See Farkas, L. 741
- Verter, H. S. and Dominic, R. A new carbon oxide. Synthesis of hexahydroxybenzene tris oxalate. 3863
- Vetter, W. und Schill, G. Die gezielte Synthese von Catena-Verbindungen—IX. Das massenspektrum einer Catena-Verbindung. 3079
- Vigdorchik, M. M. See Preobrazhenskaya, M. N. 4653
- Viola, H. See Fabian, J. 4323
- Vishapaul. See Seshadri, T. R. 1883
- Viswanathan, N. See Govindachari, T. R. 1901
- Vita Finzi, P. See Desimoni, G. 675, 681, 687
- Vlattas, I. See Kutney, J. P. 4587
- Vogt, D. C. See Stephen, A. M. 1473
- Volkenstein, M. V. See Kheifets, G. M. 1197
- Vollbracht, L. See Mijs, W. J. 2253
- Voorst, J. D. W. Van. See Wafer, Th. A. J. W. 4021
- Vromen, S. See Taylor, E. C. 885
- Waiss, Jr. A. C. See Fisher, J. F. 2523
- Wafer, Th. A. J. W., Mackor, A., De Boer, Th. J., Voorst, J. D. W. Van. C-nitroso compounds—II. On the photochemical and thermal formation of nitroxides from nitroso compounds, as studied by E.S.R. 4021
- Wakamatsu, S. See Kobayashi, Y. 115
- Wakatsuki, T. See Hino, T. 1441
- Walborsky, H. M. See Inouye, Y. 3237
- Waldron, N. M. See Critchlow, A. 2829
- Wall, M. E. See Rosenthal, D. 3583
- Wallenfels, K. und Witzler, F. *cis*-1,2-Dicyan-1,2-difluor-äthylen. 1359

- Wallenfels, K., Witzler, F. und Friedrich, K. 2,4-Dicyan- und 2,4,6-Tricyan-fluorbenzol. 1353
- Wallenfels, K., Witzler, F. und Friedrich, K. 1,3,5-Trichlor-2,4,6-tricyan-benzol und 1,3,5-Trifluor-2,4,6-tricyan-benzol. 1845
- Wallenfels, K. See Hanstein, W. 585
- Warg, P. A. See Brodie, H. J. 535
- Warnock, W. D. C. See Adolphsen, G. 3147
- Warnock, W. D. C. See Connolly, J. D. 4035
- Warrener, R. N. See Taylor, E. C. 891
- Wasada, N., Tsuchiya, T., Yoshii, E. and Watanabe, E. A study of santonins and their derivatives by mass spectrometry. 4623
- Wasada, N. See Sato, T. 1791
- Watanabe, E. See Wasada, N. 4623
- Watanabe, K. See Nozaki, H. 4279
- Webster, G. R. B. See Money, T. 3435
- Weiler, E. D. See Imbach, J.-L. 3931
- Weiss, U. See Ziffer, H. 3881
- Welzel, P. See Tschesche, R. 249
- Welzel, P. See Tschesche, R. 1461
- Werner, W. See Tschesche, R. 1873
- Wexler, S. See Foote, C. S. 2583
- Whalley, W. B. See ApSimon, J. W. 2339, 2375, 2357
- Wheeler, D. M. S., Wheeler, M. M., Fetizon, M. and Castine, W. H. Synthesis of diterpenoid acids—VII. The stereochemistry of marrubiin. 3909
- Wheeler, M. M. See Wheeler, D. M. S. 3909
- Wheeler, T. S. (the late). See Bolger, B. J. 341
- Whipple, E. B. See Chiang, Y. 745
- Whistler, R. L. See Van Es, T. 2849
- Whitehurst, J. S. See Mason, S. F. 4087
- Wijnen, M. Van. See Wijnen, W. Th. Van. 3763
- Wijnen, W. Th. Van, Wijnen, M. Van, Steinberg, H. and De Boer, Th. J. Base catalysed hydrogen exchange in cyclopropylcyanide. 3763
- Williams, D. H., Cooks, R. G., Bowie, J. H., Madsen, P., Schroll, G. and Lawesson, Sven-Olov. Studies in mass spectrometry—XX. Bond-forming reactions occurring in the fragmentation of some α,β -unsaturated esters and nitriles upon electron impact. 3173
- Williams, D. H. See Bowie, J. H. 305
- Williams, D. H. See Fleming, I. 2747
- Williams, D. H. See Marshall, J. T. B. 321
- Williams, J. M. and (in part) Richardson, A. C. Selective acylation of pyranosides—I. Benzoylation of methyl α -D-glycopyranosides of mannose, glucose and galactose. 1369
- Williams, J. M. See Richardson, A. C. 1641
- Wilson, J. M. See Jackson, A. H. 603
- Wilson, L. A. See Berlin, K. D. 965
- Witanowski, M. Nitrogen-14 nuclear magnetic resonance—V. Nitriles and isonitriles. 4299
- Witzler, F. See Wallenfels, K. 1353, 1359, 1845
- Wodak, J. See Saunders, B. C. 473
- Wolstenholme, W. A. See Heijenoort, J. Van. 3403
- Woods, M. See Hughes, A. N. 2973
- Woods, M. C. See Hori, T. 2649
- Woolard, G. R. See Rivett, D. E. A. 2431
- Wright, I. G. See Money, T. 3435
- Wrigley, J. O. L. See Edmundson, R. S. 283
- Wuesthoff, M. T. See Foote, C. S. 2583, 2601
- Wulfson, N. S., Zaretskii, V. I., Sadovskaya, V. L., Zakharychev, A. V., Ananchenko, S. N. and Torgov, I. V. Mass spectrometry of steroid systems—IX. Stereochemistry of 14-hydroxysteroids. 3667
- Wulfson, N. S. See Zaretskii, V. I. 3683
- Wyler, H. See Mabry, T. J. 3111
- Yagil, G. The proton dissociation constant of pyrrole, indole and related compounds. 2855
- Yamada, S. See Hino, T. 1441
- Yamaguti, Z. See Nozaki, H. 3993
- Yamanaka, H. See Kato, T. 2965
- Yamawaki, Y. See Horii, Z. 1165
- Yamazaki, I. See Masamune, T. 1591
- Yanovskaya, L. A., Shachidayatov, Ch. and Kutcherov, V. F. The reaction of cyanohydrins with α,β -unsaturated aldehydes. 1311
- Yates, P. and Ault, A. "Dimethylmangostin hydrochloride". 3307
- Yoshii, E. See Wasada, N. 4623
- Yoshikawa, H. See Horii, Z. 1165
- Yoshikoshi, A., Kitadani, M. and Kitahara, Y. Interconversion between hibaene and kaurene. 1175
- Yufit, S. S. See Krasnaya, Zh. A. 3687
- Zaikin, V. G. See Zaretskii, V. I. 3683
- Zakharychev, A. V. See Wulfson, N. S. 3667
- Zaman, A. See Kohli, J. M. 3829
- Zander, M. See Clar, E. 985
- Zaretskii, V. I., Wulfson, N. S. and Zaikin, V. G. Mass spectrometry of steroid systems—X. Determination of the configuration at C-17 in the pregnene-3,20-dione series. 3683
- Zaretskii, V. I. See Wulfson, N. S. 3667
- Zdanovich, V. I. See Kursanov, D. N. 2235
- Zhdanov, Yu. A. See Minkin, V. I. 3651
- Ziffer, H., Weiss, U. and Charney, E. Optical activity of non-planar conjugated dienes—IV. Interacting chromophores in gliotoxin. 3881
- Žigić-Mamuzić, Lj, See Mihailović, M. Lj. 215
- Živković, L. See Mihailović, M. Lj. 3095
- Zündorf, W. See Kobrich, G. 565
- Zviločovskiy, G. Acid catalysed condensation of ureido-oxy compounds with acetylacetone. Synthesis and properties of N-alkoxy and N-hydroxy derivatives of 1,2-dihydro-4,6-dimethyl-2-oxypyrimidine. 353
- Zweig, A., Lancaster, J. E. and Neglia, M. T. Chemical shifts in donor substituted polycyclic aromatics. 2577
- Zwierzak, A. and Koziara, A. Phosphorous acid amides—II. Synthesis of monoalkyl phosphoroamidites (RO) (R₂⁺N)P(O)H. 2243