

INDEX OF AUTHORS, 1975

A

- Abbott**, Patrick J., **Acheson**, R. Morrin, **Kornilov**, Mikhail Y., and **Stubbs**, J. K. Addition reactions of heterocyclic compounds. Part LXII. A new rearrangement in the quinazoline series, 2322.
- Abdallah**, Mohamed A. and **Shah**, Jayant N. An approach to the synthesis of (3*R*)- and (3*S*)-2,3-epoxysqualene, 888
- Aberhart**, D. John., **Lin**, Lawrence J., and **Chu**, John Yeou-Ruoh. Studies on the biosynthesis of β -lactam antibiotics. Part II. Synthesis, and incorporation into penicillin G, of (2*RS*,2'*RS*,3*R*,3'*R*)-[3,3'-³H₂]cystine and (2*RS*,2'*RS*,3*S*,3'*S*)-[3,3'-³H₂]cystine, 2517.
- Abraham**, Arieh. See **Glotter**, Erwin, 1370, and **Kirson**, Isaac, 2136.
- Abram**, Trevor S., and **Watts**, William E. Stable carbocations. Part VIII. Fragmentation reactions of ferrocenylalkylium ions. Part IX. Reactions involving sterically crowded ferrocenylalkylium ions, 113, 116.
- Abramovitch**, Rudolph A., and **Miyashita**, Koichi., Synthesis and decomposition of some sulphamoyl azides, 2413.
- Abramovitch**, Rudolph A., and **Takaya**, Takao. Photolysis of *N*-arylsulphonyl-*SS*-dimethylsulphoximides in aromatic solvents. Photoisomerisation of methylbiphenyls, 1806.
- Acheson**, R. Morrin and **Bolton**, Roger G. Synthesis of some acridines and 9-acridones for spectral studies, 650.
- Acheson**, R. Morrin., and **Flowerday**, Rowena F. Addition reactions of heterocyclic compounds. Part LIX. A ¹³C tracer study of the mechanism of formation of azepines from 2-methylquinolines and dimethyl acetylenedicarboxylate, 394.
- Acheson**, R. Morrin., and **Woollard**, John. Addition reactions of heterocyclic compounds. Part LVII. Reactions of pyridines with acetylenic esters in the presence of carbanion sources. Part LVIII. Reactions of nitrogenous heterocycles with acetylacetylene. Part LX. Reactions of 2-substituted pyridines with acetylenic esters leading to quinolizines and pyrrolo[2,1,5-*cd*]-indolizines. Part LXI. Reactions of electrophilic acetylenes with conjugated cyclic enamines, 438, 446, 740, 744
- Acheson**, R. Morrin. See also **Abbott**, Patrick J., 2322, and **Ogura**, Haruo, 2316.
- Adams**, David B. See **Clark**, David T., 647.
- Adams**, David R., **Bhatnagar**, Surendra P., and **Cookson**, Richard C. Structure and synthesis of a new ketone from *Cedrus* species; some new constituents of *C. atlantica* Manet, 1502.
Synthesis and structure of edulans I and II, 1736.
- Adams**, David R., **Bhatnagar**, Surendra P., **Cookson**, Richard C., and **Tuddenham**, Robert M. Simple syntheses of the atlantones, the ocimenones, the tagetones, and filifolone from isoprene, 1741.
- Adams**, David R., and **Davies**, David I. Free-radical reactions of halogenated bridged polycyclic compounds. Part XVII. Reaction of 5-alkyl-1,2,3,4,7,7-hexachloronorborna-2,5-dienes and 5-alkenyl-1,2,3,4,7,7-hexachloronorborn-2-enes with *N*-bromosuccinimide, 698.
- Adamson**, J. Robert, **Bywood**, Roy, **Eastlick**, David T., **Gallagher**, Gerard, **Walker**, Derek, and **Wilson**, Edward M. Amino-acids and peptides. Part II. A new method for preparing diazodiphenylmethane and related compounds, 2030
- Adembri**, Giorgio, **Camparini**, Alfredo, **Ponticelli**, Fabio, and **Tedeschi**, Piero. Synthesis and reactivity of 3-methylisoxazolo[4,5-*c*]pyridines, 2190.
- Adger**, Brian M., **Bradbury**, Steven, **Keating**, Martin, **Rees**, Charles W., **Storr**, Richard C., and **Williams**, Michael T. 1,2,3-Benzotriazines, 31.
- Adger**, Brian M., **Keating**, Martin, **Rees**, Charles W., and **Storr**, Richard C. Attempted routes to benzazetes, 41.
- Adger**, Brian M., **Rees**, Charles W., and **Storr**, Richard C. Benzazetes (1-azabenzocyclobutenes), 45.
- Advani**, Bhagwan G. See **Rajappa**, Srinivasachari, 349.
- Afzal**, Mohammad, and **Tofeeq**, Mikdad. 5,8-Dihydroxy-2-(4-methylpent-3-enyl)-1,4-naphthoquinone and its 2-[4-Methyl-1-(2-methylcrotonoyloxy)-pent-3-enyl] analogue (shikonin angelate) from *Alkanna hirsutissima*, 1334.
- Agatsuma**, Kunio. See **Hikino**, Hiroshi, 478.
- Ahmed**, Munir, **Kricka**, Larry J., and **Vernon**, John M. Autoxidation of polysubstituted isoindoles. Part II. Products from 1,3-diphenyl- and 1,2,3-triphenyl-isoindoles, 71.
- Ahmed**, Munir, and **Vernon**, John M. Ring-chain tautomerism of some *o*-benzoylbenzanilides, 2048.
- Aigami**, Koji. See **Takaishi**, Naotake, 789.
- Akhtar**, M. Naseem, **Boyd**, Derek R., **Thompson**, Norris J., **Koreeda**, Masato, **Gibson**, David T., **Mahadevan**, Venkatanarayana, and **Jerina**, Donald M. Absolute stereochemistry of the dihydroanthracene-*cis*- and 1-*trans*-1,2-diols produced from anthracene by mammals and bacteria, 2506.
- Albeck**, Michael, and **Shaik**, Sason. Reactions of tellurium-(iv) halides with anthracene and other organic compounds, 1223.
- Albert**, Adrien. *v*-Triazolo[4,5-*d*]pyrimidines (8-azapurines). Part XVI. Preparation of 6-amino-8-azapurines by heating 4-amino-1,2,3-triazole-5-carbonitrile (and its *N*-alkyl derivatives) with amidines, 345.
- Albrecht**, Pierre. See **Rubinstein**, Ian, 1833.
- Alcock**, Nathaniel W., **Golding**, Bernard T., **Hall**, David R., **Horn**, Ulrich, and **Watson**, William P. Degradation of cobaloximes to derivatives of imidazo[1,2-*a*]pyridine, 386.
- Aldridge**, David C., **Turner**, W. Brian, **Geddes**, Alexander J., and **Sheldrick**, Bernard. Demethoxyviridin and demethoxyviridiol: new fungal metabolites, 943.
- Ali**, Md. Erfan, **Kardouche**, Nabil G., and **Owen**, Leonard N. Dithiols. Part XXVI. Conversion of aliphatic and alicyclic epoxides into trithiocarbonates, 748.
- Allen**, David W., **Hutley**, Barrie G., and **Polasik**, Keith. Rapid intramolecular collapse of betaines derived from

- 5-phenyldibenzophospholes as compared with those derived from acyclic triarylphosphines; mechanism of the Wittig reaction in protic solvents, 619.
- Ames, Donald E., Chandrasekhar, Sosale, and Simpson, Roy.** Cinnolines. Part XVI. Photochemical rearrangement of 2-alkylcinnolinium-4-olates to 3-alkyl-4(3*H*)-quinazolones, 2035.
- Ames, Donald E., and Ribeiro, Odartey.** Heterocyclic syntheses from *o*-halogeno-acids. Part II. Thienopyridinones and thienopyranones from 3-bromothiophen-2- and 4-bromothiophen-3-carboxylic acids, 1390.
- Ames, Donald E., and Ward, Richard J.** [1,4]Benzo-dioxinopyridazines, 534.
- Anderson, Allan B.** See **McCrimble, Robert**, 1202.
- Anderson, Nicholas H., Devlin John P., Jones, Stephen, Ollis, W. David, and Thorpe, John E.** Studies concerning the antibiotic actinonin. Part VII. Mass spectra of actinonin and related compounds, 852.
- Anderson, Nicholas H., Ollis, W. David, Thorpe, John E., and Ward, A. David.** Studies concerning the antibiotic actinonin. Part II. Total synthesis of actinonin and some structural analogues by the isomaleimide method, 825.
- Anderson, Stephen, Glover, Edward E., and Vaughan, Kenneth D.** Action of acids and alkylating agents on 1,4-di-(2-pyridyl)tetraz-2-enes, 1232.
- Annunziata, Rita, Cinquini, Mauro, and Colonna, Stefano.** Acyloxyoxosulphonium intermediates in the formation of sulphones from sulphoxides, 282.
Mechanism and stereochemistry of nucleophilic substitutions in alkoxy-sulphonium salts. Part II. Competitive attack at sulphur and carbon in the reaction of alkoxydiarylsulphonium salts with halide ions, 404.
- Antonakis, Kostas.** See **Halmos, Therese**, 2138.
- Aoki, Yoshiko.** See **Kashima, Choji**, 2511.
- Aoyagi, Sakae.** See **Iida, Hideo**, 2502.
- Aoyama, Hiromu, Nishio, Takehiko, Hirabayashi, Yoshitaka, Hasegawa, Tadashi, Noda, Hiroshi, and Sugiyama, Noboru.** Photochemical reactions of β -aminovinyl phenyl ketones and related compounds, 298.
- Armarego, Wilfred L. F., and Reece, Phillip A.** Quinazolines. Part XXI. Synthesis of *cis*-2-amino-8a-carboxymethyl-3,4,4a,5,6,7,8,8a-octahydroquinazolin-2-ones and related compounds. Conversion of perhydroquinazolin-2-ones into 2-amino-3,4,4a,5,6,7,8,8a-octahydroquinazolines, 1470.
- Armstrong, Stuart E., Forshaw, T. Philip, and Tipping, Anthony E.** Unsaturated nitrogen compounds containing fluorine. Part VI. Reactions of hexafluoroacetone azine with 2-methylbut-2-ene, 2,3-dimethylbut-2-ene, 2,3-dimethylbut-1-ene, and cyclopentene, 1902.
- Armstrong, Stuart E., and Tipping, Anthony E.** Unsaturated nitrogen compounds containing fluorine. Part IV. Thermal reactions of hexafluoroacetone azine with hydrocarbon terminal olefins to give (1-pyrazolin-1-yl)-methanides or pyrazolines. Part V. Reactions of hexafluoroacetone azine with open-chain and cyclic hydrocarbon dienes, 538, 1411.
- Arnone, Alberto, Camarda, Lorenzo, Merlini, Lucio, and Nasini, Gianluca.** Structures of the red sandalwood pigments santalins A and B, 186.
- Ashby, John, and Griffiths, David.** Some base-catalysed ring expansion and ring expansion-ring contraction reactions of ethyl 4-chloromethyl-1,2,3,4-tetrahydro-6-methyl-2-oxopyrimidine-5-carboxylate, 657.
- Atkinson, Robert S., and Green, Richard H.** Acid-catalysed cyclisations of cyclo-octenyli-dene derivatives to produce bicyclo[3.3.1]nonanes, 340.
- Audichya, Thakur D.** See **Kamat, Vinayak S.**, 204.
- Avaca, L. Alberto, and Utley, James H. P.** Electro-organic reactions. Part IV. Preparative aspects of the cathodic hydrogenation of activated carbon-carbon double bonds, 971.
- Ayres, D. C., and Hossain, A. M. M.** Oxidation of aromatic substrates. Part II. The action of ruthenium tetroxide on some derivatives of naphthalene and its mono-aza-analogues, 707.
- Ayyar, K. Subrahmaniam, Cookson, Richard C., and Kagi, Douglas A.** Synthesis of δ -damascone [*trans*-1-(2,6,6-trimethylcyclohex-3-enyl)but-2-en-1-one] and β -damascone [*trans*-1-(2,6,6-trimethylcyclohexa-1,3-dienyl)but-2-en-1-one], 1727.

B

- Bachi, Mario D., and Ross-Petersen, Karl J.** Studies related to penicillins and cephalosporins. Part IV. Synthesis of methyl 7-phthalimido-6,7-*trans*-DL-cepham-4-carboxylate, 2525.
- Bacon, Reginald G. R., and Murray, John C. F.** Metal ions and complexes in organic reactions. Part XX. Copper-catalysed reactions of aromatic bromocarboxylates with carbanions, giving oxo-acids, isocoumarins, and related products, 1267.
- Bageenda-Kasujja, Desire.** See **Barrow, Kevin D.**, 877.
- Baggaley, Alan J., Brettle, Roger, and Sutton, John R.** Anodic oxidation. Part XIII. Products from bicyclo-[2.2.1]hept-2-ene, bicyclo[2.2.1]hepta-2,5-diene, and tetracyclo[3.2.0.0^{2,7}.0^{4,6}]heptane, 1055.
- Baggaley, Keith H., Brooks, Stanley G., and Hindley, Richard M.** Synthesis of 1-aryloxymethyl- and 1-arylthiomethyl-imidazoles, 1670.
- Baigrie, Brian D., Brennan, John, Cadogan, J. I. G., Cook, John, and Sharp, John T.** Aromatic annelation by reaction of aryl radicals with dimethyl acetylenedicarboxylate and related compounds, 1060.
- Baigrie, Brian D., Cadogan, J. I. G., and Sharp, John T.** Reaction of phenyl radicals with dialkyl azodiformates: formation of, and nuclear magnetic resonance studies of conformational restrictions in, tetra-alkyl 1,4-diphenyl-tetra-azane-1,2,3,4-tetracarboxylates, 1065.
- Bailey, A. Sydney, Morris, Trevor, and Rashid, Zafar.** Reactions of dihydroquinolines and dihydroisoquinolines with arenesulphonyl azides, 420.
- Baimbridge, Charles L., Mickey, Charles D., and Zingaro, Ralph A.** 1-*S*- (or *S*₂)-Dimethylstibino-derivatives of 1-thio- and 1-seleno- β -D-glucopyranose, 1395.
- Baines, David A., and Cocker, Wesley.** The chemistry of terpenes. Part XX. Autoxidation of (+)-car-3-ene, 2232.
- Bajorek, Jan J. S., and Sutherland, James K.** A *cis*-perhydroindanone synthesis utilising an intramolecular Diels-Alder reaction, 1559.
- Baklien, Sigurd, Groth, Per, and Undheim, Kjell.** Pyrylium salts. Part VI. Derivatives of 3,11-dithiatricyclo-[5.3.1.1^{2,6}]dodecane by dimerisation of thiopyrylium-3-olates, 2099.
- Baklien, Sigurd.** See also **Undheim, Kjell**, 1366.
- Baldry, Peter J.** Formation of methyl ethers from photo-

- addition of methanol to phenyl-substituted butadienes, 1913.
- Baldwin, Derek, and Broek, Peter van den.** Condensation reactions of chloroformylsulphur chloride with 2- and 4-aminopyrimidines, 2-aminothiazole, and 2-amino- Δ^2 -thiazoline, 375.
- Baldwin, Derek, and Hanson, James R.** A rearrangement of 4 β ,5 β -epoxy-6 α -hydroxyandrostane-17 β -yl acetate, 1107. Formation of oestratrienes from 5,6-epoxyandrostane-7-ols, 1941.
- Bandyopadhyay, Bulu.** See **Chatterjee, Amareshwar**, 1934.
- Banks, Raymond, Brookes, Robert F., and Godson, David H.** Rearrangements and cyclization of ω -alkoxyalkyl- and ω -phenoxyalkyl-carbamoyl chlorides, 1836.
- Banks, Ronald E., Birchall, J. Michael, Brown, Alan K., Haszeldine, Robert N., and Moss, Frank.** Nitroxide chemistry. Part VIII. Abstraction of allylic hydrogen from isobutene by bistrifluoromethyl nitroxide, 2033.
- Banks, Ronald E., Haszeldine, Robert N., and Willoughby, Bryan G.** Polyfluoroarenes. Part XXI. Synthesis, decarbonylation, and dehydration of 2',3',4',5',6'-pentafluoroformanilide: formation of pentafluorophenyl isocyanide, 2451.
- Banks, Ronald E., and Noakes, Timothy J.** Heterocyclic polyfluoro-compounds. Part XXII. Synthesis of octafluoro-4,4'-azopyridine and tetrafluoro-4-(pentafluorophenylazo)pyridine, 1419.
- Bard, Martin.** See **Barton, Derek H. R.**, 88.
- Barker, John M., Huddleston, Patrick R., and Shutler, Stephen W.** Preparation and reactions of 2,5-dimethoxythiophen, 2483.
- Barlow, Michael G., Harrison, Geoffrey M., Haszeldine, Robert N., Hubbard, Ronald, Kershaw, Melvyn J., and Woodward, David R.** Valence-bond isomer chemistry. Part VIII. Cycloaddition reactions of derivatives of hexafluorobicyclo[2.2.0]hexa-2,5-diene, and of hexakis(trifluoromethyl)benzvalene, 2010.
- Barlow, Michael G., Haszeldine, Robert N., and Kershaw, Melvyn J.** Valence-bond isomer chemistry. Part VII. Photochemical interconversion of the perfluoroxylenes, 2005.
- Barnett, Graham H., Hudson, Mervyn F., and Smith, Kevin M.** Concerning *meso*-tetraphenylporphyrin purification, 1401.
- Barraclough, Paul, and Young, Douglas W.** Synthesis and reactions of 2-methyl-3-methylamino-2-azabicyclo[3.2.1]-oct-6-ene and its valence isomer, 2354.
- Barrett, Graham C., and Cousins, Peter R.** The circular dichroism of *N*-thiobenzoyl-L- α -amino acids. Part VI. Assessment of the resolution of amino-acids as their *N*-thiobenzoyl derivatives, 2313.
- Barrett, William G., and Mackay, Donald.** Decomposition and cycloaddition reactions of some bis(azodicarbonyl) compounds, 1046.
- Barrow, Kevin D., Barton, Derek H. R., Chain, Sir Ernst, Bageenda-Kasujja, Desire, and Mellows, Graham.** Fusicoccin. Part IV. The structure of fusicoccin J, 877.
- Barrow, Kevin D., Jones, Robert B., Pemberton, Phillip W., and Phillips, Lawrence.** Fusicoccin. Part V. The biosynthesis of fusicoccin from [1-¹³C]- and [2-¹³C]-acetate, 1405.
- Bartlett, A. Josephine, Laird, Trevor, and Ollis, W. David.** Base-catalysed intramolecular cycloadditions of allyl 3-phenylprop-2-ynyl ethers and 4-methylpent-4-en-2-ynyl prop-2-ynyl ethers, 1315.
- Barton, Derek H. R., Basu, Nilaj K., Day, Michael J., Hesse, Robert H., Pechet, Maurice M., and Starratt, Alvin N.** Improved syntheses of aldosterone, 2243.
- Barton, Derek H. R., Bracho, Ruben D., Gunatilaka, A. A. Leslie, and Widdowson, David A.** Phenol oxidation and biosynthesis. Part XXV. New syntheses of bis-(2-arylethyl)amines of biosynthetic importance, 579.
- Barton, Derek H. R., Brown, Barry D., Ridley, Damon D., Widdowson, David A., Keys, Alfred J., and Leaver, Christopher J.** The structure of daucic acid, 2069.
- Barton, Derek H. R., Day, Michael J., Hesse, Robert H., and Pechet, Maurice M.** A new rearrangement of ketonic nitrones; a convenient alternative to the Beckmann rearrangement, 1764.
- Synthesis of 11-deoxy-18-hydroxycorticosterone and 18-hydroxycorticosterone 21-acetates, 2252.
- Barton, Derek H. R., and Forbes, Craig P.** Improved methods for the oxidation of primary and secondary alcohols, 1614.
- Barton, Derek H. R., Gunatilaka, A. A. Leslie, Jarman, Trevor R., Widdowson, David A., Bard, Martin, and Woods, Robin A.** Biosynthesis of terpenes and steroids. Part X. The sterols of some yeast mutants doubly defective in ergosterol biosynthesis, 88.
- Barton, Derek H. R., and Haynes, Richard K.** Peroxide-diene oxygen transfer reactions induced by titanium tetrachloride, 2065.
- Barton, Derek H. R., Haynes, Richard K., Leclerc, Gérard, Magnus, Phillip D., and Menzies, Ian D.** New reactions of triplet oxygen which avoid the spin barrier, 2055.
- Barton, Derek H. R., Jarman, Trevor R., Watson, Keith C., Widdowson, David A., Boar, Robin B., and Damps, Kathleen.** Investigations on the biosynthesis of steroids and terpenoids. Part XII. Biosynthesis of 3 β -hydroxytriterpenoids and -steroids from (3S)-2,3-epoxy-2,3-dihydrosqualene, 1134.
- Barton, Derek H. R., and McCombie, Stuart W.** A new method for the deoxygenation of secondary alcohols, 1574.
- Barton, Derek H. R., Magnus, Philip D., and Quinney, John C.** Experiments on the synthesis of tetracycline. Part XIII. Oxidation of ring A model phenols to *p*-hydroxy-cyclohexadienones, 1610.
- Barton, Derek H. R., Manly, David P., and Widdowson, David A.** Synthesis and chemistry of *S*-acylthiol *S*-oxides and related compounds, 1568.
- Barton, Derek H. R., and Stick, Robert V.** The reaction of diol thiocarbonates with methyl iodide: a synthesis of 6-deoxy-sugars, 1773.
- Barton, Derek H. R.** See also **Barrow, Kevin D.**, 877, and **Boar, Robin B.**, 1237, 1242.
- Basu, Nilaj K.** See **Barton, Derek H. R.**, 2243.
- Batta, Ashok Kumar, and Rangaswami, Srinivasa.** Crystalline chemical components of *Fomes senex* and structure of senexdiolic acid and related compounds, 451.
- Batta, Ashok Kumar.** See also **Rajaraman, Krishnamurthy**, 1560.
- Batten, Peter.** See **Johnson, Alan W.**, 2076.
- Battersby, Alan R., Francis, R. John, Hirst, Maurice, Ruveda, Edmundo A., and Staunton, James.** Biosynthesis. Part XXI. Investigations on the biosynthesis of stylopine in *Chelidonium majus*, 1140.
- Battersby, Alan R., Staunton, James, and Wiltshire, Hugh R.** Studies of enzyme-mediated reactions. Part IV. Complementary syntheses of stereospecifically labelled (*R*)-

- and (S)-[α - $^3\text{H}_1$]benzyl alcohol derivatives by use of liver alcohol dehydrogenase, 1156.
- Battersby, Alan R., Staunton, James, Wiltshire, Hugh R., Bircher, Brian J., and Fuganti, Claudio.** Studies of enzyme-mediated reactions. Part V. Synthesis of (13S)- and (13R)-[13- $^3\text{H}_1$]scoulerine from stereo-specifically labelled (R)- and (S)-[α - $^3\text{H}_1$]benzyl alcohols; stereo-chemistry of enzymic reactions at saturated benzylic carbon, 1162.
- Battersby, Alan R., Staunton, James, Wiltshire, Hugh R., Francis, R. John, and Southgate, Robert.** Biosynthesis. Part XXII. The origin of chelidonine and of other alkaloids derived from the tetrahydroprotoberberine skeleton, 1147.
- Bauch, Hans-Joachim, Labadie, Rudi Paul, and Leistner, Eckhard.** Biosynthesis of nepodin (2-acetyl-3-methylnaphthalene-1,8-diol) in *Rumex alpinus* L., 689.
- Bearder, John R., MacMillan, Jake, and Phinney, Bernard O.** Fungal products. Part XIV. Metabolic pathways from *ent*-kaurenoic acid to the fungal gibberellins in mutant B1-41a of *Gibberella fujikuroi*, 721.
- Beckwith, Athelstan L. J., and Vickery, Graham G.** Displacement of the hydroxy-group from ferrocenylmethanol by amines, 1818.
- Begley, William J., and Grimshaw, James.** Condensation between 2-chloro-3*H*-indol-3-one and phenols, 1840.
- Begtrup, Mikael.** Reactions between azolium anions and electrophilic reagents. Part II. Direct thiation of 1,2-disubstituted pyrazolium anions with sulphur, 507.
- Behan, John M., Johnstone, Robert A. W., and Wright, Malcolm J.** Stereospecific conversion of epoxides into olefins, 1216.
- Bell, Alan M., Boul, A. David, Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XVIII. Introduction of 16 α -, 9 α -, and 3 α -hydroxy-groups into dioxxygenated 5 α -androstanes by the fungus *Diaporthe celsastrina*, 1364.
- Bell, Alan M., Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., and Pendlebury, Anthony.** Microbiological hydroxylation. Part XV. Hydroxylation in the terminal rings of mono- and di-oxygenated 5 α -androstanes with the fungus *Daedalea rufescens*, 357.
- Bell, Alan M., Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XX. Hydroxylation of dioxxygenated 5 α -androstanes with the fungi *Absidia regnieri* and *Syncephalastrum racemosum*, 2040.
- Benedek-Vamos, M.** See **Nasielski-Hinkens, R.**, 1229.
- Berg, Sidney S., Peart, Barry J., and Toft, Malcolm P.** Rearrangements in a series of thiazol-2-ylsemicarbazides, 1040.
- Bergoni, Angelo, and Burdon, James.** Stereochemistry of addition of fluorine to olefins by cobalt trifluoride, 2237.
- Bersohn, Malcolm.** See **Esack, Ashmeed**, 1124.
- Bhatnagar, Surendra P.** See **Adams, David R.**, 1502, 1736, 1741.
- Bhattacharyya, Sasanka C.** See **Kamat, Vinayak S.**, 204.
- Birch, Anthony J., Jackson, Anthony H., Shannon, Patrick V. R., and Stewart, George W.** Phenol oxidation. Part IV. Synthesis and novel ring-opening of spirocyclic dienones related to the benzyl-isoquinoline alkaloid cularine, 2492.
- Birchall, J. Michael, Haszeldine, Robert N., and Tissington, Peter.** Carbene chemistry. Part IX. Some C-H insertion reactions of dichlorocarbene in the gas phase, 1638.
- Birchall, J. Michael.** See also **Banks, Ronald E.**, 2033.
- Bircher, Brian J.** See **Battersby, Alan R.**, 1162.
- Bischofberger, Karl, Brink, Abraham J., and Jordaan, Amor.** Synthesis of fluorinated branched-chain sugars, 2457.
- Blackburn, G. Michael, Jarvis, Steven, Ryder, Melvin C., and Solan, Vishnu.** Kinetics and mechanism of reaction of hydroxylamine with cytosine and its derivatives, 370.
- Blackstock, Walter P.** See **Brown, Richard T.**, 1776.
- Blatchly, John M., Green, Richard J. S., McOmie, John F. W., and Saleh, Sadiq A.** Thiele-Winter acetoxylation of quinones. Part VI. Methoxy- and hydroxy-(phenyl)-1,4-benzoquinones and (4-substituted phenyl)-1,4-benzoquinones, 309.
- Bloodworth, A. J., and Griffin, I. M.** Oxymetallation. Part VII. Peroxymercuration of terminal, medial, and cyclic alkenes without accompanying acyloxymercuration. Part IX. Bromodemercuration of peroxy-mercurials derived from terminal, medial, and cyclic alkenes to give β -bromoperoxides, 195, 695.
- Boar, Robin B.** On the relationship between intramolecular hydrogen abstraction by alkoxy radicals and deshielding by the corresponding hydroxy-groups as indicated by nuclear magnetic resonance, 1275.
- Boar, Robin B., McGhie, James F., Robinson, Mick, and Barton, Derek H. R.** A new and convenient synthesis of the 17 α ,21-diacetoxy-20-oxopregnane side-chain, 1242.
- Boar, Robin B., McGhie, James F., Robinson, Mick, Barton, Derek H. R., Horwell, David C., and Stick, Robert V.** A simple synthesis of enamides from ketoximes, 1237.
- Boar, Robin B.** See also **Barton, Derek H. R.**, 1134.
- Bolton, Roger G.** See **Acheson, R. Morrin**, 650.
- Bonner, Trevor G., Bourne, Edward J., Lewis, David, and Yüceer, Levant.** Monobutylidene acetals of 1-deoxy-D-galactitol, 1323.
- Bonnett, Raymond, Holleyhead, Robin, Johnson, Brian L., and Randall, Edward W.** Reaction of acidified nitrite solutions with peptide derivatives: evidence for nitrosamine and thionitrite formation from ^{15}N n.m.r. studies, 2261.
- Bonnett, Raymond, and Stewart, John Charles Marshall.** Photo-oxidation of bilirubin in hydroxylic solvents, 224.
- Booker, Evans, and Eisner, Ulli.** Reduction of 3,5-disubstituted pyridines to dihydropyridines, 929.
- Boom, Jacques H. van.** See **Reese, Colin B.**, 934.
- Booth, Brian L., Haszeldine, Robert N., and Neuss, Geoffrey R. H.** Reactions involving transition metals. Part VIII. Decomposition of hydroperoxides catalysed by iridium(I) and by rhodium(I) complexes, 209.
- Borthwick, Juliet H.** See **Hamilton, R. J.**, 354.
- Bose, Ajay K., Manhas, Maghar S., Chawla, H. P. S., and Dayal, B.** Studies on lactams. Part XLII. A stereo-selective synthesis of some α -amido- β -lactams, 1880.
- Boul, A. David.** See **Bell, Alan M.**, 1364.
- Bourne, Edward J.** See **Bonner, Trevor G.**, 1323.
- Bowen, David H., Cloke, Christopher, Harrison, David M., and MacMillan, Jake.** Partial synthesis of gibberellin A₃₇ from gibberellin A₁₃, 83.
- Bowen, David H., Cloke, Christopher, and MacMillan, Jake.** Terpenoids. Part VI. Preparation of *ent*-[13,14 α - $^2\text{H}_2$]-kaur-16-ene and some derivatives; bridgehead enolisation of *ent*-17-nor[13,14 α - $^3\text{H}_2$]kauran-16-one, 378.
- Boyce, Richard, Hayes, Brendan A., Murphy, William S., and O'Riordan, Edward A.** 1,1-Diphenylalkenes. Part

- V. C-1 vs. C-3 alkylation of allylic carbanions; applicability of the principle of least motion, 531.
- Boyd, Derek R.** See **Akhtai, M. Naseem**, 2506.
- Boyer, Joseph H., Dunn, Jonathan, and Kooi, Johannes.** Formimidoyl cyanide and isocyanide from azidoacetone nitrile by photolysis, 1743.
- Boyer, Joseph H.** See also **Kooi, Johannes**, 2374.
- Bracho, Ruben D.** See **Barton, Derek H. R.**, 579.
- Bradbury, Steven.** See **Adger, Brian M.**, 31.
- Brady, William T., and Ting, Patrick L.** Rearrangements of 8-chloro-8-methylbicyclo[4.2.0]oct-2-en-7-one, 456.
- Brain, Edward G., McMillan, Ian, Nayler, John H. C., Southgate, Robert, and Tolliday, Patricia.** The chemistry of penicillanic acids. Part III. A route to 1,2-seco-penicillins, 562.
- Brandt, Edward V.** See **Ferreira, Daneel**, 1437.
- Breier, Benjamin.** See **Cosmatos, Alexandros**, 2157.
- Brennan, John.** See **Baigrie, Brian D.**, 1060.
- Brettle, Roger, and Sutton, John R.** Anodic oxidation. Part XIV. Products from the electrochemical functionalisation of olefins in methanol. Part XV. Electrochemical functionalisation of phenylcyclopropane and 2-isobutenyl-1,1-dimethylcyclopropane in methanol, 1947, 1955.
- Brettle, Roger.** See also **Baggaley, Alan J.**, 1055.
- Bridges, Alexander J., and Whitham, Gordon H.** Preparation and properties of β -oxo-thionesters, 1603. *trans*-Cycloalkenes. Part V. 1-Methyl-*trans*-cyclo-octene, 2264.
- Briggs, Lindsay H., Cambie, Richard C., and Hyslop, Derek M.** *Solanum* alkaloids. Part XVII. The sugar unit of solamargine, 2455.
- Brimacombe, John S., Da'aboul, Ibrahim, and Tucker, Leslie C. N.** Syntheses of derivatives of 2,6-diamino-2,3,4,6-tetra-deoxy-D-*erythro*-hexose (purpurosamine C), a component of gentamycin C₁₀, 979
- Brimacombe, John S., Mahmood, Safia, and Rollins, Anthony J.** Branched-chain sugars. Part V. Identification and synthesis of vinelose, 1292.
- Brimacombe, John S., Minshall, Jonathan, and Smith, Clive W.** Branched-chain sugars. Part IV. Synthesis of derivatives of alagarose, a component of aldgamycin E², 682.
- Brink, Abraham J.** See **Bischofberger, Karl**, 2457.
- Brochmann-Hanssen, Einar, Chen, Chung-hsiung, Chen, C. Rolland, Chiang, Hsüch-ching, Leung, Albert Y., and McMurtrey, Kenneth.** Opium alkaloids. Part XVI. The biosynthesis of 1-benzylisoquinolines in *Papaver somniferum*. Preferred and secondary pathways; stereochemical aspects, 1531.
- Brodrick, Andrew and Wibberley, D. George.** 1*H*-Pyrrolo-[2,3-*b*]pyridines. Part III. A novel synthetic route from 1-substituted 2-aminopyrroles, 1910.
- Broek, Patricia J. van den.** See **Hull, Roy**, 922, 2271.
- Broek, Peter van den.** See **Baldwin, Derek**, 375.
- Brookes, Robert F.** See **Banks, Raymond**, 1836.
- Brooks, C. J.** See **Hamilton, R. J.**, 354.
- Brooks, Stanley G.** See **Baggaley, Keith H.**, 1670.
- Broughton, Barbara J., Chaplen, Peter, Freeman, Wilfred A., Warren, Peter J., Wooldridge, Kenneth R. H., and Wright, Derek E.** Studies concerning the antibiotic actinonin. Part VIII. Structure-activity relationships in the actinonin series, 857.
- Broughton, Barbara J., Warren, Peter J., Wooldridge, Kenneth R. H., Wright, Derek E., Ollis, W. David, and Wood, Ronald J.** Studies concerning the antibiotic actinonin. Part IV. Synthesis of structural analogues of actinonin by the mixed anhydride method, 842.
- Broughton, Barbara J.** See also **Devlin, John P.**, 830.
- Brown, Alan K.** See **Banks, Ronald E.**, 2033.
- Brown, Barry D.** See **Barton, Derek H. R.**, 2069.
- Brown, Desmond J., and Ienaga, Kazuharu.** The Dimroth rearrangement. Part XVIII. Syntheses and rearrangement of 4-iminoquinazolines and related systems, 2182.
- Brown, Edward D., Sam, Teng W., Sutherland, James K., and Torre, Alberto.** Medium-ring 1,5-dienes. Part II. The radical and electrophile-induced cyclisation of germacra-1(10),4,7(11)-triene, 2326.
- Brown, Edward D., Sutherland, James K., and Sam, Teng W.** Medium-ring 1,5-dienes. Part III. Cyclisation of germacra-1(10),4,7(11)-triene oxides, 2332.
- Brown, Richard T., Blackstock, Walter P., and Chapple, C. Lyn.** Isolation of 5,7-dihydroxy-2-methylchromone and its 7-*O*-glycosides from *Adina rubescens*, 1776.
- Brown, Thomas B., and Stevens, Malcolm F. G.** Triazines and related products. Part XV. 2,4-Diaminopyrimidines and 2-aminopyrimidin-4(3*H*)-ones bearing 1,2,3-benzotriazinyl groups as potential dihydrofolic reductase inhibitors, 1023.
- Confirmation of the site of nitrosation in tryptophan derivatives by α -chymotrypsin, 2357.
- Browne, Christopher C., and Punja, Nazim.** Stereospecific syntheses of (*Z*)- and (*E*)-4-bromomethylene-5,5-dimethyl-3-phenyloxazolidin-2-one, 1525.
- Bruscatto, Frank N.** See **Zady, Mona, F.**, 2036.
- Buchan, Gavin M., and Turner, Alan B.** Determination of the substitution pattern of an isoxazole by ¹³C nuclear magnetic resonance, 2115.
- Quinone methides derived from Uhlé's ketone, 2257.
- Buchan, Robert, and Musgrave, Oliver C.** Reactions of quinones with aromatic ethers. Part V. Triphenylene-1,4-quinones from 2,3-diaryl-1,4-benzoquinones. Part VI. Triphenylenols from mono- and di-chlorobenzoquinones and veratrole. Part VII. Triphenylene-1,4:5,8-diquinones from reactions of veratrole or 3,4-dimethoxyphenylbenzoquinones with benzoquinones, 568, 811, 2185.
- Buchanan, J. Grant, Dunn, Allan D., and Edgar, Alan R.** C-Nucleoside studies. Part II. Pentofuranosylethyne from 2,3-*O*-isopropylidene-D-ribose, 1191.
- Buggle, Katherine, and O'Sullivan, Daniel.** Decomposition products of pyrazolines formed from 3-alkylthioinden-1-ones and diazomethane, 572.
- Bu'Lock, John D.** See **Johns, Nicholas**, 383.
- Bunce, Nigel J., Safe, Stephen, and Ruzo, L. Octavio.** Photochemistry of bromobiphenyls: steric effects and electron transfer, 1607.
- Burden, Ian J., and Stoddart, J. Fraser.** Isomerism in bicyclic diacetals. Part I. 1,3:2,4- and 1,4:2,3-Di-*O*-methylene-erythritol, Part II. Bicyclic methylene diacetals in the *galacto*, *arabino*, and *ribo* series, 666, 675.
- Burdon, James.** See **Bergoni, Angelo**, 2237.
- Burrows, Brian F., Turner, W. Brian, and Walker, Edward R. H.** 8-Ethylidene-7,8-dihydro-4-methoxypyran-4[3,3-*b*]pyran-2,5-dione (coarctatin), a metabolite of *Chaetomium coarctatum*, 999.
- Bushby, R. J.** Synthesis of 3-alkylidene-2,2,4,4-tetramethylthietan 1,1-dioxides, possible precursors of 2-methylenetrimethylene, 2513.
- Butchart, Graham A. M., Stevens, Malcolm F. G., and Gunn,**

- Brian C. Medicinal nitro-compounds. Part II. Search for *ortho*-interactions in tumour-inhibitory 2,4-dinitrophenylaziridines, 956.
- Butler, Anthony R. Formation of Meisenheimer-Jackson complexes in a non-polar solvent, 1557.
- Butler, Richard N., and King, William B. Reaction of lead tetra-acetate with aldehyde nitrophenylhydrazones, 61.
- Butt, Mohammed I. See Fraser, John K., 2280.
- Bywood, Roy, Gallagher, Gerard, Sharma, Girijesh K., and Walker, Derek. Amino-acids and peptides. Part I. Esterification of the carboxy-group of penicillins and cephalosporins by hydrazone oxidation, 2019.
- Bywood, Roy. See also Adamson, J. Robert, 2030.
- C
- Cadogan, J. I. G., Gould, Robert O., Gould, Sheila E. B., Sadler, Patricia A., Swire, Susan J., and Tait, Brian S. Reduction of nitro- and nitroso-compounds by trivalent phosphorus reagents. Part XIV. X-Ray crystallographic determination of the structures of 3-(2,6-dimethylphenyl)-2,3-dihydro-2,2,2-trimethoxy-1,3,2-benzoxazaphosph(v)ole and its 2-hydroxy-2-oxo-analogue, 2392.
- Cadogan, J. I. G., Grace, David S. B., Lim, Peter K. K., and Tait, Brian S. Reduction of nitro- and nitroso-compounds by trivalent phosphorus reagents. Part XII. Conversion of aryl 2-nitroaryl ethers into novel 3-aryl-2,3-dihydro-1,3,2-benzoxazaphosph(v)oles (oxazaphosphoranes) and their 2-oxo-derivatives, 2376.
- Cadogan, J. I. G., Grace, David S. B., and Tait, Brian S. Reduction of nitro- and nitroso-compounds by trivalent phosphorus reagents. Part XIII. ¹H Nuclear magnetic resonance studies of 3-aryl-2,3-dihydro-1,3,2-benzoxazaphosph(v)oles and their 2-oxo-analogues, 2386.
- Cadogan, J. I. G., and Rowley, Alan G. Radical phthalimide-ation of aromatic compounds by photolysis of *N*-tosyloxyl-phthalimide: a route to primary aromatic amines, 1069.
- Cadogan, J. I. G., Rowley, Alan G., Sharp, John T., Sledzinski, Bohdan, and Wilson, Norman H. A note on three routes to benzyne: decomposition of diphenyliodonium acetate, nitrosation of *N*-phenyl-phosphylsulphonates, and deoxygenation of benzenediazotoluene-*p*-sulphonate *N'*-oxide (cupferron tosylate) by phosphorus trichloride, 1072.
- Cadogan, J. I. G., and Tait, Brian S. Reduction of nitro- and nitroso-compounds by trivalent phosphorus reagents. Part XV. Reactions of certain aryl 2-nitrophenyl sulphides and their 2-azido-analogues leading to evidence for the intermediacy of 2,3-dihydro-1,3,2-benzothiazaph(v)oles (thiazaphosphoranes) and to the formation of dihydrodimethylpheno-thiazinones and pyrimido- and pyrido-[1,2-*b*]indazoles, 2396.
- Cadogan, J. I. G. See also Baigrie, Brian D., 1060, 1065.
- Cainelli, Gian Franco, Panunzio, Mauro, and Umani-Ronchi, Achille. Chemistry of alkali metal tetracarbonylferates. A simple method for alkylating and arylating carbonyl compounds and active methylene compounds, 1273.
- Callaghan, Patrick D., Gibson, Martin S., and Elliott, Arthur J. Synthesis of 1*H*-4,1,2-benzothiadiazines from substituted *N*-acetyl-*N*-aryl-*N'*-thioaroylhydrazines, 1386.
- Camarda, Lorenzo. See Arnone, Alberto, 186.
- Cambie, Richard C., Thomas, Peter W., and Hanson, James R. Epoxidation of 3 α ,5-cyclo-5 α -androst-6-en-17-one, 323.
- Cambie, Richard C. See also Briggs, Lindsay H., 2455.
- Cameron, A. F. See Campbell, Malcolm M., 1208.
- Cameron, I. R. See Campbell, Malcolm M., 1208.
- Camparini, Alfredo. See Adembri, Giorgio, 2190.
- Campbell, Malcolm M., and Johnson, Graham. Conversion of secopenicillanic acid derivatives into β -lactam sulphimides and oxazolines, 1077.
- Transformations of penicillins: novel ring-opening reactions of a penicillin-derived sulphimide, 1212.
- Formation of enantiomeric 4-oxa-2,6-diazabicyclo[3.2.0]-hept-2-en-7-ones from methyl 6 α - and 6 β -phenoxy-acetamidopenicillanates, 1932.
- Campbell, Malcolm M., Johnson, Graham, Cameron, A. F., and Cameron, I. R. Transformations of penicillins: reactions with chloramine τ , 1208.
- Campbell, Rodwill V. M., Crombie, Leslie, Findley, David A. R., King, Richard W., Pattenden, Gerald, and Whiting, Donald A. Synthesis of (\pm)-presqualene alcohol, (\pm)-prephytoene alcohol, and structurally related compounds, 897.
- Canonica, Luigi. See Casagrande, Cesare, 1647, 1652, 1659.
- Caporusso, Anna M. See Giacomelli, Giampaolo, 1795.
- Carde, Robert N., and Jones, Gurnos. Intramolecular nitrene insertions into aromatic and heteroaromatic systems. Part III. Photochemical decomposition of azido-indanes and azido-1,2-dihydrobenzocyclobutenes, 519.
- Carruthers, William, Evans, Nigel, and Pooranamoorthy, Ratnam. Photocyclisation of some 1,6-diarylhexas-1,3,5-trienes, 76.
- Casagrande, Cesare, and Canonica, Luigi. Studies on proaporphine and aporphine alkaloids. Part V. Synthesis of (\pm)-glaziovine by 8,1'-ring closure of 1-benzylisoquinoline derivatives, 1647.
- Casagrande, Cesare, Canonica, Luigi, and Severini-Ricca, Giuliana. Studies on proaporphine and aporphine alkaloids. Part VI. Synthesis of (\pm)-glaziovine by spiran ring construction on a cyclopent[*ij*]isoquinoline; stereochemistry of reduced proaporphines. Part VII. Stereochemistry of reduced proaporphines of *Croton sparsiflorus* and *C. linearis*, 1652, 1659.
- Casnati, Giuseppe, Pochini, Andrea, Salerno, Giuseppe, and Ungaro, Rocco. Solvent and ion-pair effects on the self-condensation of linear aliphatic aldehydes: selective synthesis of substituted acrylaldehydes and glycol monoesters, 1527.
- Chadwick, Derek J., Chambers, John, Meakins, G. Denis, and Snowden, Roger L. Preparation of the 'fixed conformation esters' 4,5-dihydrofuro- and 4,5-dihydrothieno-[2,3-*c*]pyran-7-one, 523.
- Chain, Sir Ernst. See Barrow, Kevin D., 877.
- Chakraborti, Prabir C. See Ghatak, Usha R., 2438.
- Chakravarty, Jyotirmoy. See Ghatak, Usha R., 2438.
- Challand, S. Richard, Gait, Stephanie F., Rance, Michael J., Rees, Charles W., and Storr, Richard C. Azimines as 1,3-dipoles, 26.
- Chambers, John. See Chadwick, Derek J., 523.
- Chambers Richard D., MacBride, J. A. Hugh, Maslakiewicz, Jerzy R., and Srivastava, Krishna C. Photochemistry of halogenocarbon compounds. Part I. Rearrangement of pyridazines to pyrazines, 396.
- Chambers, Richard D., Maslakiewicz, Jerzy R., and Srivastava, Krishna C. Photochemistry of halogeno-

- carbon compounds. Part II. Valence isomers from fluorinated pyridazines, 1130.
- Chambers, Richard D.** See also **Clark, David T.**, 647.
- Chambers, Virginia E. M., Denny, William A., Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., Pinhey, John T., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XVII. C-19 Hydroxylation of 17-oxo-5 α -androstanes and 17-oxo-3 α ,5-cyclo-5 α -androstanes by the fungus *Calonectria decora*, 1359.
- Chambers, Virginia E. M., Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XIV. Hydroxylation in the terminal rings of dioxygenated 5 α -androstanes with the fungi *Wojnowicia graminis* and *Ophiobolus herpotrichus*, 55.
- Chandrasekaran, S.** See **Venkataramani, P. S.**, 730.
- Chandrasekhar, Sosale.** See **Ames, Donald E.**, 2035.
- Chaplen, Peter.** See **Broughton, Barbara J.**, 857.
- Chapple, C. Lyn.** See **Brown, Richard T.**, 1776.
- Chatterjee, Rabindra M.** See **Gupta, Arun K. Das**, 1869.
- Chatterjee, Amarendra, Bandyopadhyay, Bulu, and Mallik, Rita.** Mode of cyclopropane ring opening of 1a,2,3-7b-tetrahydro-1-phenyl-1*H*-cyclopropa[*a*]naphthalene: a correction, 1934.
- Chatterjee, Bishnu P. and Rao, Chintalacharuvu V. N.** Some structural features of Pneumococcus Type XXII capsular polysaccharide 985.
- Chaudhuri, Swadesh R. Ray.** See **Nasipuri, Dhanonjoy**, 262.
- Chawla, H. P. S.** See **Bose, Ajay K.**, 1880.
- Cheeseman, Gordon W. H., Freestone, Alan J., Godwin, Robert A., and Hough, Thomas L.** Experiments on the synthesis of pyrazine nucleosides, 1888.
- Chelli, Mario.** See **Rapi, Gianfianco**, 1999.
- Chen, Chung-Hsiung.** See **Brochmann-Hanssen, Einar**, 1531.
- Chen, C. Rolland.** See **Brochmann-Hanssen, Einar**, 1531.
- Chen, Guo-Shyong J., and Gibson, Martin S.** Synthesis of 10-benzoyl-9-acridone and 9-acridone from 2,2'- and 2,3'-disubstituted benzophenones, 1138.
- Chennat, Tomy, and Eisner, Ulli.** A new synthesis of 1,4-dihydropyridines, 926.
- Chexal, Kuldip K., Fouweather, Christopher, and Holker, John S. E.** The biosynthesis of fungal metabolites. Part VII. Production and biosynthesis of 4,7-dimethoxy-5-methylcoumarin in *Aspergillus varicolor*, 554.
- Chexal, Kuldip K., Holker, John S. E., and Simpson, Thomas J.** The biosynthesis of fungal metabolites. Part VI. Structures and biosynthesis of some minor metabolites from variant strains of *Aspergillus varicolor*, 549.
- Chexal, Kuldip K., Holker, John S. E., Simpson, Thomas J. and Young, Kenneth.** The biosynthesis of fungal metabolites. Part V. Structure of variecoxanthones A, B, and C, metabolites of *Aspergillus varicolor*: conversion of variecoxanthone A into (\pm)-de-C-prenylepishamixanthone, 543.
- Chiang, Hsüch-Ching.** See **Brochmann-Hanssen, Einar**, 1531.
- Chiron, Annie, and Szabó, Patricia.** Phosphorylated sugars. Part XVIII. Synthesis of D-glycero-D-gulo-heptose 4-(dihydrogen phosphate), 603.
- Choudhuri, Sailendra N.** See **Gupta, Arun K. Das**, 1869.
- Chu, John Yeou-Ruoh.** See **Aberhart, D. John**, 2517.
- Cinquini, Manro.** See **Annunziata, Rita**, 282, 404.
- Clark, Bernard A. J., Evans, Timothy J., and Simmonds, Robin G.** Preparation and some reactions of 2,2-diaryl-2*H*-imidazole 1-oxides, 1803.
- Clark, David T., Chambers, Richard D., and Adams, David B.** An ESCA study of the fluoride-ion-induced trimerization product from perfluorocyclobutene, 647.
- Clark, Ferrers R. S., Norman, Richard O. C., and Thomas, C. Barry.** Reactions of palladium(II) with organic compounds. Part III. Reactions of aromatic iodides in basic media. Part IV. Oxidation of some substituted stilbenes, 121, 1230.
- Cloke, Christopher.** See **Bowen, David H.**, 83, 378.
- Cocker, Wesley, and Grayson, David H.** The chemistry of terpenes. Part XIX. Reaction of (+)-3 α ,4 α -epoxycarane with halogen acids and acetic acid, 1217. Reactions of some dicarbonyl compounds. Part III. Oxidation of some β -diketones with alkaline hydrogen peroxide, 1347.
- Cocker, Wesley, Lauder, Huntly St. J., and Shannon, Patrick V. R.** The chemistry of terpenes. Part XVIII. Synthesis of methyl (-)-*cis*-chrysanthemate and of a methyl (+)-*cis*-homochrysanthemate from (+)-car-3- and -2-ene, 332.
- Cocker, Wesley.** See also **Baines, David A.**, 2232.
- Coe, Paul L., Milner, Nigel E., and Smith, J. Anthony.** Reactions of perfluoroalkylcopper compounds. Part V. The preparation of some polyfluoroalkyl-substituted acids and alcohols, 654.
- Coe, Paul L., Smith, Peter, Tatlow, J. Colin, and Wyatt, Michael.** Highly fluorinated heterocycles. Part XIII. Fluorination of 1-methylpyrrole and some reactions of derived compounds, 781.
- Cohen, Ariela.** See **Kirson, Isaac**, 2136.
- Collins, Edward, John, Gareth D., and Shannon, Patrick V. R.** Some aspects of the oxidation of deoxyhumulones to humulones, 96.
- Collins, Peter M., Hurford, John R., and Overend, W. George.** Arylazo-glycosides. Part IV. Synthesis and reactions of some 2- and 3-arylazo-derivatives of methyl 2,3-dideoxy-D-pent-2-enofuranoside. Part V. Cyclo-additions with methyl 5-*O*-benzoyl-2,3-dideoxy-3-phenylazo- α - and - β -D-glycero-pent-2-enofuranoside, 2163, 2178.
- Collins, Peter M., and Oparaeché, Nathan N.** The photochemistry of carbohydrate derivatives. Part III. Photochemical rearrangements of 2,3- and 3,4-*O*-nitrobenzylideneglycopyranosides, 1695.
- Collins, Peter M., Oparaeché, Nathan N., and Munasinghe, V. Ranjit N.** The photochemistry of carbohydrate derivatives. Part IV. Photochemical rearrangement of 4,6-*O*-*o*-nitrobenzylideneglycopyranosides, 1700.
- Colonna, Stefano.** See **Annunziata, Rita**, 282, 404.
- Coman, Ruth E., and Weedon, Basil C. L.** Carotenoids and related compounds. Part XXXIII. Synthesis of dehydroflexixanthin and deoxyflexixanthin, 2529.
- Connolly, Joseph D.** See **Ferguson, George**, 491, and **Okogun, Joseph I.**, 1352.
- Cook, John.** See **Baigrie, Brian D.**, 1060.
- Cooke, Burgess J. A.** See **Shoppee, Charles W.**, 2210.
- Cookson, Clive M., and Whitham, Gordon H.** Bis(trimethylsilyloxy)alkenes from the modified acyloin reaction of Schräpler and Rühlmann; stereochemical considerations, 806.
- Cookson, Richard C.** See **Adams, David R.**, 1502, 1736, 1741, and **Ayyar, K. Subrahmanya**, 1727.
- Cookson, Ronald F., and Rodway, Ronald E.** Polycyclic fused amidines. Part I. Imidazo- and pyrimido-[1,2-*f*]phenanthridines. Part II. Synthesis of dihydro-

- imidazo-fused systems by use of 2-aminoethylammonium toluene-*p*-sulphonate, 1850, 1854.
- Coombs**, Maurice M., **Hall**, Maureen, **Siddle**, Veronica A., and **Vose**, Colin W. Potentially carcinogenic cyclopenta[*a*]-phenanthrenes. Part X. Oxygenated derivatives of the carcinogen 15,16-dihydro-11-methylcyclopenta[*a*]phenanthren-17-one of metabolic interest, 265.
- Coombs**, Robert V., **Koletar**, Judit, **Danna**, Robert P., and **Mah**, Henry. Synthesis of 9,11-disubstituted 19-norsteroids, 792.
- Cooper**, David J., **Davies**, D. Huw, **Mallams**, Alan K., and **Yehaskel**, Albert S. Synthesis of methyl gentosaminide, methyl 3-deoxy-3-methylaminoarabinopyranoside, and related amino-sugars, 785.
- Cooper**, G., and **Irwin**, W. J. Reaction of dimethyl imidazole-4,5-dicarboxylate with styrene oxide, 798.
- Cooper**, Michael John, **Hull**, Roy, and **Wardleworth**, Michael. Synthesis of some 1,2,4-triazoles and 1,2,4-triazolines by reaction of oxamidrazone condensation products with acetic anhydride, 1433.
- Cooper**, Peter, **Fields**, Roy, and **Haszeldine**, Robert N. Organophosphorus chemistry. Part XVII. Reaction of hexafluoropropene and some fluorochloro-olefins with phosphines: competition between radical and ionic reactions, 702.
- Cooper**, Robin D. G., **Davis**, John B., **Leftwick**, Allan P., **Price**, Colin, and **Weedon**, Basil C. L. Carotenoids and related compounds. Part XXXII. Synthesis of astaxanthin, phoenicoxanthin, hydroxyechinenone, and the corresponding diosphenols, 2195.
- Corbett**, David F., and **Stoodley**, Richard J. Studies related to penicillins. Part XV. Reactions of 2-oxa-4,7-diazabicyclo[3.2.0]hept-3-en-6-ones with thiols, 432.
- Corbett**, R. Edward, and **Wilkins**, Alistair L. Functionalization of methyl groups in isopimarane-8 β -ol, hopane-7 α -ol, and hopane-15 β -ol and derivatives, 710.
- Cornforth**, John Warcup, **Ross**, Frederick Patrick, and **Wakselman**, Claude. An improved route to (3*RS*,5*S*)-[5-³H₁]mevalonic acid, 429.
- Corral**, Renée A. See **Orazi**, Orfeo O., 772.
- Cosmatos**, Alexandros, **Johnson**, Stanley, **Breier**, Benjamin, and **Katsoyannis**, Panayotis G. [A-21-D-Asparagine] sheep insulin, a diastereoisomer of the natural hormone, 2157.
- Cosmatos**, Alexandros. See also **Katsoyannis**, Panayotis G., 464.
- Cousins**, Peter R. See **Barrett**, Graham C., 2313.
- Coutts**, Ian G. C., and **Hamblin**, Michael. Synthesis of *NN*-diaryltoluene-4-sulphonamides, 2445.
- Crabb**, Trevor A., and **Wilkinson**, John R. Isomerisation of 1,2,3,4,5,8-hexahydroisoquinolines to hexahydroisoquinolines containing a 1,3-diene system, 58. Synthesis of hexahydroisoquinolines, 1465.
- Crabbé**, Pierre, **Haro**, Jorge, **Rius**, Carlos, and **Santos**, Elvira. Synthesis of pyridine oxides and isoxazolines from 4-(2-oxoalkylidene)pyrans, 1342.
- Cragg**, Gordon M. L., **Giles**, Robin G. F., and **Roos**, Gregory H. P. Syntheses of isobenzofuran-4,7-quinone and isoindole-4,7-quinone, 1339.
- Crombie**, Leslie, **Jenkins**, Peter A., and **Mitchard**, David A. Heterogeneous catalytic hydrogenation of allenes over supported palladium: selectivity, stereoselectivity, and regioselectivity, 1081.
- Crombie**, Leslie, **Jenkins**, Peter A., and **Roblin**, John. Absolute configuration of allenes, conversion of molecular dissymmetry into centrodissymmetry by heterogeneous catalytic hydrogenation, 1090. Reduction of allenes and acetylenes by catalytic and chemical methods: 'molecular queueing' effects in competitive hydrogenation, 1099.
- Crombie**, Leslie, **Kilbee**, Geoffrey W., and **Whiting**, Donald A. Carbon-13 magnetic resonance spectra of natural rotenoids and their relatives, 1497.
- Crombie**, Leslie, **King**, Richard W., and **Whiting**, Donald A. Carbon-13 magnetic resonance spectra. Synthetic presqualene esters, related cyclopropanes, and isoprenoids, 913.
- Crombie**, Leslie, **Pattenden**, Gerald, and **Simmonds**, Derek J. Carbon-13 nuclear magnetic resonance spectra of the natural pyrethrins and related compounds, 1500.
- Crombie**, Leslie. See also **Campbell**, Rodwill V. M., 897.
- Cross**, Brian E., and **Hendley**, Paul. Preparation of some fluoropalmitic acids and fluorination of brefeldin A, 2523.
- Cross**, Brian E., and **Zammitt**, Leslie J. Pigments of *Gnomonia erythrostoma*. Part III. Synthesis of a methyl ether of bisdeoxyerythrostrominone, 1936.
- Cullen**, William P., **Donnelly**, Dervilla M. X., **Keenan**, Alan K., **Keenan**, Patrick J., and **Ramdas**, K. Oxidation of 2'-hydroxy- α -phenylchalcones: substituent effects on the course of the Algar-Flynn-Oyamada (AFO) reaction, 1671.
- Cunningham**, Ian M., and **Overton**, Karl H. On stereochemical preference in the S₂2' reaction, 2140.
- Curtis**, Neil F. See **Hay**, Robert W., 591.
- Cuthbertson**, Eric, **Hardy**, Andrew D. U., and **MacNicol**, David D. Structure and transformation of products of the reactions of 2,2'-thiodi-isobutyrophenone with hydrazine, 254.

D

- Da'aboul**, Ibrahim. See **Brimacombe**, John S., 979.
- Damps**, Kathleen. See **Barton**, Derek H. R., 1134.
- Danna**, Robert P. See **Coombs**, Robert V., 792.
- Dasgupta**, Rupak. See **Ghatak**, Usha R., 2438.
- Davies**, Beryl, and **Thomas**, C. Barry. Selective nitration of aromatic substrates: reaction of nitrogen dioxide with arylthallium(III) compounds, 65.
- Davies**, D. Huw, **Greeves**, Diane, **Mallams**, Alan K., **Morton**, James B., and **Tkach**, Richard W. Structures of the aminoglycoside antibiotics 66-40B and 66-40D produced by *Micromonospora inyoensis*, 814.
- Davies**, David I. See **Adams**, David R., 689.
- Davies**, D. Huw. See also **Cooper**, David J., 785.
- Davis**, George T. See **Smith**, John R. Lindsay, 510.
- Davis**, John B. See **Cooper**, Robin D. G., 2195.
- Davis**, Victor J., **Haszeldine**, Robert N., and **Tipping**, Anthony E. Electrochemical fluorination. Part I. Electrochemical fluorination of alkyl-substituted pyridines, 1263.
- Day**, Michael J. See **Barton**, Derek H. R., 1764, 2243, 2252.
- Dayal**, B. See **Bose**, Ajay K., 1880.
- Dean**, Francis M., **Goodchild**, John, **Hill**, Andrew W., **Murray**, Stephen, and **Zahman**, Asif. Synthesis of pyrano[3,2-*c*]pyranthiones; characteristic shifts in the ¹H nuclear magnetic resonance spectra of thiones, 1335.
- Dean**, Francis M., and **Murray**, Stephen. 3-Hydroxy-methylenechroman-4-one, 1706.
- De Delal**, Ila. See **Nasipuri**, Dhanonjoy, 2052.
- de Leeuw**, Harry P. M. See **Reese**, Colin B., 934.

- Dennis, Nicholas, **Katritzky**, Alan R., and **Ramaiah**, Muthyala. 1,3-Dipolar character of six-membered aromatic rings. Part X. Pyridazine and benzopyridazine betaines, 1506.
- Denny, William A. See **Chambers**, Virginia E. M., 1359.
- de Rooy, Jan F. M. See **Reese**, Colin B., 934.
- Desai, Haridutt K. See **Govindachari**, Tuticorin R., 2134.
- de Villiers, Olof G. See **Hall**, Richard H., 626.
- Devlin, John P., **Ollis**, W. David, and **Thorpe**, John E. Studies concerning the antibiotic actinonin. Part V. Synthesis of structural analogues of actinonin by the anhydride-ester method, 846.
- Devlin, John P., **Ollis**, W. David, **Thorpe**, John E., **Wood**, Ronald J., **Broughton**, Barbara J., **Warren**, Peter J., **Wooldridge**, Kenneth R. H., and **Wright**, Derek E. Studies concerning the antibiotic actinonin. Part III. Synthesis of structural analogues of actinonin by the anhydride-imide method, 830.
- Devlin, John P., **Ollis**, W. David, **Thorpe**, John E., and **Wright**, Derek E. Studies concerning the antibiotic actinonin. Part VI. Synthesis of structural analogues of actinonin by dicyclohexylcarbodi-imide coupling reactions, 848.
- Devlin, John P. See also **Anderson**, Nicholas H., 852, and **Gordon**, James J., 819.
- Dickinson, Ronald G., and **Jacobsen**, Noel W. 6-Substituted S-triazolo[4,3-b]-s-tetrazine-3-thiols: a sensitive and specific test for aldehydes, 975.
- Djuras, Blanka. See **Skariá**, Vinko, 1959.
- Dodson, Stuart A., and **Stipanovic**, Robert D. Radical-induced cyclizations of *cis*-1,10-dichlorodec-5-ene and 1,10-dichlorodec-5-yne, 410.
- Donnelly, Dervilla M. X. See **Cullen**, William P., 1671.
- Donnelly, John A., and **Hoey**, James G. Further rearrangements of cyclopropyl epoxides. Formation of cyclobutanes and cyclobutenes, 2364.
- Drayton, Colin J., **Flowers**, William T., and **Haszeldine**, Robert N. Polyfluorocarbanion chemistry. Part II. Fluoride-initiated reactions of hexafluoropropene with pentafluoropyridine and tetrafluoropyridine-4-carbonitrile, 1029.
- Drayton, Colin J., **Flowers**, William T., **Haszeldine**, Robert N., and **Morton**, William D. Polyfluorocarbanion chemistry. Part III. Reaction of hexafluoropropene with pentafluorobenzonitrile, 1035.
- Drewes, Siegfried E., **Magojo**, Herbert E. M., and **Sutton**, Donald A. Reaction of diazomethane with quaternary nitrogen compounds to form betaines, 1283.
- Dunn, Allan D. See **Buchanan**, J. Grant, 1191.
- Dunn, Jonathan. See **Boyer**, Joseph H., 1743.
- Durley, Richard C., **MacMillan**, Jake, **Simpson**, Thomas J., **Glen**, Alasdair T., and **Turner**, W. Brian. Fungal products. Part XIII. Xanthomegnin, viomellin, rubrosulphin, and viopurpurin, pigments from *Aspergillus sulphureus* and *Aspergillus melleus*, 163.
- Dutta, Anand S., and **Morley**, John S. Polypeptides. Part XIII. Preparation of α -aza-amino-acid (carbamic acid) derivatives and intermediates for the preparation of α -aza-peptides, 1712.
- E**
- Eaborn, Colin, **Jackson**, Richard A., and **Pearce**, Ronald. Reduction of aryltrimethylsilanes as a synthetic method. Part II. Birch reduction. Part III. Lithium in ethylamine (Benkeser reduction), 470, 475.
- East, Anthony J. See **Gordon**, James J., 819.
- Eastlick, David T. See **Adamson**, J. Robert, 2030.
- Eck, Charles R., **Mills**, Roy W., and **Money**, Thomas. A new regiospecific synthesis of 8-bromocamphor, 251.
- Edgar, Alan R. See **Buchanan**, J. Grant, 1191.
- Edwards, Raymond L., and **Gill**, Melvyn. Constituents of the higher fungi. Part XV. 3-(3,4-Dihydroxyphenyl)-2,7,8-trihydroxydibenzofuran-1,4-dione, a precursor of thelephoric acid from the fungus *Suillus grevillei* (Klotsch) Sing. [*Boletus elegans* (Schum. per Fries)], 351.
- Eisner, Ulli. See **Booker**, Evans, 929, and **Chennat**, Tomy, 926.
- Eix, Allan R. E. See **Smith**, James G., 1474.
- Ekong, Donald E. U., **Okogun**, Joseph I., and **Sondengam**, B. Lucas. The meliacins (limonoids): minor constituents of *Khaya anthotheca*: reduction of the meliacins with zinc-copper couple, 2118.
- Ekong, Donald E. U. See also **Okogun**, Joseph I., 1352.
- Elix, John A. See **Jackman**, David A., 1979, **Rana**, Nicola Michael, 1992, and **Sargent**, Melvyn V., 1986.
- Elliott, Arthur J. See **Callaghan**, Patrick D., 1386.
- Elson, Clive M. See **Johnson**, Alan W., 2076.
- Entwistle, Ian D., **Johnstone**, Robert A. W., and **Povall**, T. Jeffrey. Selective rapid transfer-hydrogenation of aromatic nitro-compounds, 1300.
- Entwistle, Ian D. See also **Johnstone**, Robert A. W., 1424.
- Esack, Ashmeed. A procedure for rapid recognition of the rings of a molecule, 1120.
- Esack, Ashmeed, and **Bersohn**, Malcolm. Computer manipulation of central chirality, 1124.
- Esmail, Roshan, and **Kurzer**, Frederick. Heterocyclic compounds from urea derivatives. Part XXII. Thiobenzoylated carbonohydrazides and their cyclisation. Part XXIII. Thiobenzoylated thiocarbonohydrazides and their cyclisation, 1781, 1787.
- Evans, John M., **Jones**, Sir Ewart R. H., **Meakins**, G. Denis, **Miners**, John O., **Pendlebury**, Anthony, and **Wilkins**, Alistair L. Microbiological hydroxylation. Part XVI. Incubation of derivatives (mainly acetals) of 5 α -androsterone ketones with the fungi *Calonectria decora*, *Aspergillus ochraceus*, and *Rhizopus nigricans*, 1356.
- Evans, Nigel. See **Carruthers**, William, 76.
- Evans, Roger, and **Hanson**, James R. Studies in terpenoid biosynthesis. Part XIII. The biosynthetic relationship of the gibberellins in *Gibberella fujikuroi*, 663.
- Evans, Roger, **Hanson**, James R., and **Siverns**, Michael. The ¹³C nuclear magnetic resonance spectra of some gibberellins, 1514.
- Evans, Timothy J. See **Clark** Bernard A. J., 1803.
- F**
- Fakunle, Christopher O. See **Okogun**, Joseph I., 1352.
- Fenn, M. David, and **Lister**, John H. Purine studies. Part XIV. Trifluoroacetyl and formyl derivatives of 4,5-diamino-6-methyl-2-methylthio-pyrimidine, their ethylation products, and derived purines, 485.
- Ferguson, George, **Gunn**, P. Alastair, **Marsh**, Wayne C., **McCordle**, Robert, **Restivo**, Roderic, **Connolly**, Joseph D., **Fulke**, John W. B., and **Henderson**, Margaret S. Tetranortriterpenoids and related substances. Part XVII.

- A new skeletal class of triterpenoids from *Guarea glabra* (Meliaceae), 491.
- Ferguson**, Ian J., and **Schofield**, Kenneth. Studies in azole chemistry. Part I. Syntheses and reactions of some imidazole 3-oxides, 275.
- Ferreira**, Daneel, **Brandt**, Edward V., **Volsteedt**, Francois du R., and **Roux**, David G. Parameters regulating the α - and β -cyclization of chalcones, 1437.
- Ferreira**, Margarida A., **Moir**, Michael, and **Thomson**, Ronald H. Naturally occurring quinones. Part XXV. Pterocarpenequinones (6*H*-benzofuro[3,2-*c*][1]benzopyranquinones) from *Brya ebenus*, 1113.
- Fields**, Roy. See **Cooper**, Peter, 702.
- Filipescu**, Nicolae. See **Mihai**, Gheorghe G., 1374.
- Finch**, Paul, and **Merchant**, Z. The structures of D-arabinose and D-glucose oximes, 1682.
- Findlay**, Robert H. See **Sharp**, John T., 102.
- Findley**, David A. R. See **Campbell**, Rodwill V. M., 897.
- Fleming**, George L., **Haszeldine**, Robert N., **McAllister**, James R., and **Tipping**, Anthony E. Polyfluoroalkyl derivatives of nitrogen. Part XLII. Reaction of *N*-bromobis(trifluoromethyl)amine with 1*H*-pentafluoropropene and some further studies on the thermal rearrangement of *NN*-bis(trifluoromethyl)vinylamines, 1633.
- Fleming**, Ian, and **Mah**, Talat. A simple synthesis of anthracenes, 964.
- Flowerday**, Rowena F. See **Acheson**, R. Morrin, 394.
- Flowers**, William T., **Holt**, Geoffrey, **Hope**, Michael A., and **Poulos**, Constantine P. Nucleophile-induced cyclisation of 2-diazo-2'-thiocyanatoacetophenone: 2-(cyanohydrazono)- and 2-(triphenylphosphoranylidenehydrazono)benzo[*b*]thiophen-3(2*H*)-one, 286.
- Flowers**, William T. See also **Drayton**, Colin J., 1029, 1035.
- Fookes**, Christopher J. R., and **Gallagher**, Michael J. Organophosphorus intermediates. Part VI. Base-catalysed reaction of methyl phosphinate with tetraphenylcyclopentadienone, 1876.
- Forbes**, Craig P. See **Barton**, Derek H. R., 1614.
- Forde**, Edward. See **O'Donovan**, Daniel G., 415.
- Forrester**, Alexander R., **Ingram**, Alexander S., **John**, I. Lennox, and **Thomson**, Ronald. Persulphate oxidations. Part XI. Oxidative dimerisation of aminonaphthoquinones, 1115.
- Forrester**, Alexander R., and **Ramasseul**, Rene. Nitroxide radicals. Part XVII. Transannular interactions in [2.2]paracyclophanyl nitroxides, 1753.
- Forrester**, Alexander R., **Thomson**, Ronald H., and **Woo**, Soo-On. Intramolecular cyclisation of phenolic oximes. Part I. Cyclisations with manganese(III) tris(acetylacetonate). Part II. Cyclisations with brominating agents, 2340, 2348.
- Forshaw**, T. Philip. See **Armstrong**, Stuart E., 1902.
- Fouweather**, Christopher. See **Cheal**, Kuldip K., 554.
- Francis**, R. John. See **Battersby**, Alan R., 1140, 1147.
- Fraser**, John K., **Neilson**, Douglas G., **Newlands**, Leslie R., **Watson**, Kathleen M., and **Butt**, Mohammed I. Formation of 1,2,4-triazoles from the reactions of *N*-arylmandelamidrazones with aldehydes and with trialkyl ortho esters, 2280.
- Fraser-Reid**, Bert. See **Radatus**, Bruno K., 1872.
- Freear**, John, and **Tipping**, Anthony E. Fluorinated acetylenes. Part VI. Some thermal and photochemical reactions of *NN*-bis(trifluoromethylamino)-substituted acetylenes, 1074.
- Freeman**, Wilfred A. See **Broughton**, Barbara J., 857.
- Freestone**, Alan J. See **Cheeseman**, Gordon W. H., 1888.
- Fröhlich**, Andreas, **Ishikawa**, Kiyoyasu, and **McMurry**, T. Brian H. The chemistry of santonene. Part X. Products of the action of phosphorus pentachloride on santonin, 726.
- Fuganti**, Claudio. See **Battersby**, Alan R., 1162.
- Fujimoto**, Yasuo. See **Kametani**, Tetsuji, 932.
- Fujimoto**, Yoshinori, **Morisaki**, Masuo, and **Ikekawa**, Nobuo. Studies on steroids. Part XXIX. Synthesis of allenic analogues of fucosterol and desmosterol, 2302.
- Fujita**, Kenichi. See **Yamaguchi**, Isomaro, 992, 996.
- Fukada**, Naoaki. See **Takehima**, Tatsuo, 1277.
- Fukazawa**, Shinobu. See **Yoreda**, Fumio, 1907.
- Fukumoto**, Keiichiro. See **Kametani**, Tetsuji, 413, 737, 1012, 1822, 1825, 2001, 2028, 2102.
- Fulke**, John W. B. See **Ferguson**, George, 491.
- Furuhata**, Kimio. See **Ogura**, Haruo, 2316.

G

- Gait**, Stephanie F., **Peek**, Michael E., **Rees**, Charles W., and **Storr**, Richard C. Benzo[*c*]cinnoline *N*-imides, 19.
- Gait**, Stephanie F., **Rance**, Michael J., **Rees**, Charles W., **Stephenson**, Reginald W., and **Storr**, Richard C. Extended dipolar cycloadditions, 556.
- Gait**, Stephanie F. See also **Challand**, S. Richard, 26.
- Gallagher**, Gerard. See **Adamson**, J. Robert, 2030, and **Bywood**, Roy, 2019.
- Gallagher**, Michael J. See **Fookes**, Christopher J. R., 1876.
- Garwood**, Robert F., **Naser-ud-Din**, and **Weedon**, Basil C. L. Anodic syntheses. Part XVI. Oxidation of phenylene-diacetic acids and benzylic ethers, 2471.
- Geary**, Patrick. See **O'Donovan**, Daniel G., 415.
- Geddes**, Alexander J. See **Aldridge**, David C., 943.
- Gent**, Patricia A., and **Gigg**, Roy. The allyl ether as a protecting group in carbohydrate chemistry. Part VII. The 2-*O*-allyl group as a non-participant in 1,2-*cis*-*g* ycoside synthesis, 361.
- Synthesis of 1,2-di-*O*-hexadecanoyl-3-*O*-(β -D-galactopyranosyl)-L-glycerol (a 'galactosyl diglyceride') and 1,2-di-*O*-octadecanoyl-3-*O*-(6-*O*-octadecanoyl- β -D-galactopyranosyl)-L-glycerol, 364.
- Synthesis of 3-*O*-[6-*O*-(α -D-galactopyranosyl)- β -D-galactopyranosyl]-1,2-di-*O*-stearoyl-L-glycerol, a 'digalactosyl diglyceride', 1521.
- Synthesis of 3-*O*-{6-*O*-[6-*O*-(α -D-galactopyranosyl)- α -D-galactopyranosyl]- β -D-galactopyranosyl}-1,2-di-*O*-stearoyl-L-glycerol, a 'trigalactosyl diglyceride', 1779.
- Ghatak**, Usha R., **Chakravarty**, Jyotirmoy, **Dasgupta**, Rupak, and **Chakraborti**, Prabir C. Condensed cyclic and bridged-ring systems. Part III. Regioselectivity and stereoselectivity in the acid-catalysed cyclisations of substituted benzylcyclohexanols. Stereocontrolled synthesis of some *gem*-carboxy-methyl-substituted hexahydrofluorene and hexahydro-5,9-methanobenzocyclooctene derivatives, 2438.
- Giacomelli**, Giampaolo, **Lardicci**, Luciano, and **Caporusso**, Anna M. Alkyl metal asymmetric reduction. Part VIII. Stereoselectivity of the reduction of alkyl phenyl ketones by optically active aliphatic Grignard reagents, 1795.
- Gibson**, David T. See **Akhtar**, M. Naseem, 2506.
- Gibson**, Martin S., **Vines**, S. Martin, and **Walthew**, John M.

- Cleavage of halogenobenzophenones by potassamide in ammonia; new routes to xanthen- and thioxanthen-9-ones, 155.
- Gibson, Martin S.** See also **Callaghan, Patrick D.**, 1386, and **Chen, Guo-Shyong J.**, 1138.
- Gibson, Samuel G.** See **Hewett, Colin L.**, 336.
- Gigg, Roy.** See **Gent, Patricia A.**, 361, 364, 1521, 1779.
- Gilbert, Iain M.** See **Hewett, Colin L.**, 336.
- Gilchrist, Thomas L., Gymer, Geoffrey E., and Rees, Charles W.** Reactive intermediates. Part XXIV. 1*H*-Azirine intermediates in the pyrolysis of 1*H*-1,2,3-triazoles, 1.
Benzonitrile *N*-(phthalimido)imide, a functionalised 1,3-dipole. Preparation of 4,5,8-triphenylpyridazino-[4,5-*d*]triazine and generation of 3,6-diphenyl-4,5-didehydropyridazine, 1747.
- Gilchrist, Thomas L., Harris, C. John, Moody, Christopher J., and Rees, Charles W.** Reaction of *N*-aryl- and imido-ylsulphimides with diphenylcyclopropenone; synthesis of 4-pyrimidones, 1969.
- Gilchrist, Thomas L., Moody, Christopher J., and Rees, Charles W.** Photolysis and thermolysis of *N*-(*N*-arylimido)ylsulphimides, 1964.
- Gilchrist, Thomas L., Rees, Charles W., and Thomas, Colin.** Reactive intermediates. Part XXV. Investigation of the pyrolysis of 1,4- and 1,5-diphenyl-1,2,3-triazoles by use of ¹³C-labelled compounds. Part XXVI. Flash vacuum pyrolysis of phenyl-substituted 1,2,4-triazoles; a new synthesis of isoindoles, 8, 12.
- Giles, Robin G. F.** See **Cragg, Gordon M. L.**, 1339.
- Gill, Melvyn.** See **Edwards, Raymond L.**, 351.
- Ginanneschi, Mauro.** See **Rapi, Gianfranco**, 1999.
- Ginos, James.** See **Katsoyannis, Panayotis G.**, 464.
- Girgis, Nabih S.** See **Latif, Nazih**, 1052.
- Glen, Alasdair T.** See **Durley, Richard C.**, 163.
- Glotter, Erwin, Kirson, Isaac, Abraham, Arieh, Sethi, Prabh D., and Subramanian, S. Sankara.** Steroidal constituents of *Physalis minima* (Solanaceae), 1370.
- Glotter, Erwin, Rabinsohn, Yechiel, and Ozari, Yehuda.** Conformational aspects of some 5β-methyl-19-nor-steroids, 2104.
- Glover, Edward E.** See **Anderson, Stephen**, 1232.
- Godson, David H.** See **Banks, Raymond**, 1836.
- Godwin, Robert A.** See **Cheeseman, Gordon W. H.**, 1888.
- Golding, Bernard T., and Hall, David R.** Adducts from acyl chlorides and 2-unsubstituted oxazolines: formation and reactions, 1302.
Formation and reactions of ethyl 2,2-dimethyl-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-6-carboxylate, a penam analogue, 1517.
- Golding, Bernard T., Rickards, Rodney W., and Vanek, Zdenko.** New metabolites of *Aspergillus terreus*: 3-hydroxy-2,5-bis-(*p*-hydroxyphenyl)penta-2,4-dien-4-olide and derivatives, 1961.
- Golding, Bernard T.** See also **Alcock, Nathaniel W.**, 386.
- Goodchild, John.** See **Dean, Francis M.**, 1335.
- Gordon, James J., Devlin, John P., East, Anthony J., Ollis, W. David, Sutherland, Ian O., Wright, Derek E., and Ninet, Léon.** Studies concerning the antibiotic actinonin. Part I. The constitution of actinonin. A natural hydroxamic acid with antibiotic activity, 819.
- Gould, Robert O.** See **Cadogan, J. I. G.**, 2392.
- Gould, Sheila E. B.** See **Cadogan, J. I. G.**, 2392.
- Govindachari, Tuticorin R., Parthasarathy, Papagudi C., Rajagopalan, Tuticorin G., Desai, Haridutt K., Rama-**
- chandran, Kalpathi S., and Lee, Eun.** Absolute configuration of ancistrocladisine and ancistrocladidine, 2134.
- Grace, David S. B.** See **Cadogan, J. I. G.**, 2376, 2386.
- Gramatica, Paolo.** See **Manitto, Paolo**, 1548.
- Gray, Alexander I., Waigh, Roger D., and Waterman, Peter G.** Avicennol: a new pyranocoumarin from the root-bark of *Zanthoxylum avicennae*, and its conversion into avicennin, 488.
- Grayson, David H.** See **Cocker, Wesley**, 1217, 1347.
- Green, Richard H.** See **Atkinson, Robert S.**, 340.
- Green, Richard J. S.** See **Blatchly, John M.**, 309.
- Greenhill, John V., Ramli, Mohamed, and Tomassini, Therezinha.** Reduction of enaminones in the preparation of 3-aminocyclohexanols; a novel preparation of tetrionic acid, 588.
- Greeves, Diane.** See **Davies, D. Huw**, 814.
- Griffin, I. M.** See **Bloodworth, A. J.**, 195, 695.
- Griffiths, David.** See **Ashby, John**, 657.
- Grimshaw, James.** See **Begley, William J.**, 1840.
- Grol, Cor J.** Synthesis of a dithieno[2,3-*b*:3',2'-*e*][1,4]-thiazine and of di-3-thienylamine, 1234.
- Groth, Per.** See **Baklien, Sigurd**, 2099.
- Grudzinski, Zdzislaw, and Roberts, Stanley M.** Electrophilic bromination of bicyclo[3.2.0]hept-2-en-6-ones, 1767
- Grundon, Michael F., Harrison, David M., and Spyropoulos, Caroline G.** Biosynthesis of aromatic isoprenoids. Part III. Mechanism of formation of the furan ring and origin of the 4-methoxy-group in the biosynthesis of furoquinoline alkaloids, 302.
- Grundon, Michael F., and Okely, H. Martyn.** Synthesis and reactions of isoprenyl terminal epoxides in the chromone and quinoline series, 150.
- Gunasekera, Sarath P., Ramachandran, Samyiyah, Selliah, Sathiadevan, and Sultanbawa, M. Uvais S.** Chemical investigation of Ceylonese plants. Part XVII. Isolation and structures of the xanthenes in the extractives of *Mesua ferrea* L. (form *M. salicina* Pl. and Tr.) (Guttiferae), 2447.
- Gunasekera, Sarath P., Selliah, Sathiadevan, and Sultanbawa, M. Uvais, S.** Chemical investigation of Ceylonese plants. Part XV. Extractives of *Kayea stylosa* Thw. (Guttiferae), 1539.
- Gunasekera, Sarath P., and Sultanbawa, M. Uvais S.** Chemical investigation of Ceylonese plants. Part XVI. Extractives of *Calophyllum cordato-oblongum* Thw. (Guttiferae), 2215.
- Gunatilaka, A. A. Leslie.** See **Barton, Derek H. R.**, 88, 579.
- Gunn, Brian C.** See **Butchart, Graham A. M.**, 956.
- Gunn, P. Alastair.** See **Ferguson, George**, 491.
- Gupta, Arun K. Das, Chatterje, Rabindra M., and Choudhuri, Sailendra N.** Coumarins and related compounds. Part XXI. A reinvestigation of the reaction between 1-naphthol and 2-formyl-2-phenylacetone, 1869.
- Gymer, Geoffrey E.** See **Gilchrist, Thomas L.**, 1, 1747.

H

- Hall, C. Dennis.** See **Schalke, Peter M.**, 2417.
- Hall, David R.** See **Alcock, Nathaniel W.**, 386, and **Goldring, Bernard T.**, 1302, 1517.
- Hall, Maureen.** See **Coombs, Maurice M.**, 265.
- Hall, Richard H., Jordaan, Amor, and de Villiers, Olof G.** Reaction of chlorosulphonyl isocyanate with ethyl 4,6-

- di-*O*-acetyl-2,3-dideoxy- α -D-*erythro*-hex-2-enopyranoside: a reinvestigation, 626.
- Halmos**, Therese, and **Antonakis**, Kostas. Studies on 7-(3,5-dideoxy-2-*C*-methoxycarbonyl- β -L-pentofuranosyl)-theophyllines. Configuration at the branch point and biological activity, 2138.
- Halsall**, Thomas G., and **Troke**, Jeffrey A. The structures of three new meliacins isolated from *Khaya anthotheca* heartwood, 1758.
- Hamblin**, Michael. See **Coutts**, Ian G. C., 2445.
- Hamilton**, Alan L. See **Johnson**, Alan W., 2076.
- Hamilton**, R. J., **Raie**, M. Y., **Weatherston**, I., **Brooks**, C. J., and **Borthwick**, Juliet H. Crustacean surface waxes. Part I. The hydrocarbons from the surface of *Ligia oceanica*, 354.
- Hansen**, Per Egil, and **Undheim**, Kjell. *N*-Quarternary compounds. Part XL. Synthesis of 1a,6a-dihydroindeno[1,2-*b*]azirin-6(1*H*)-ones and isomerisation to isoquinolinium derivatives, 305.
- Hanson**, James R., **Hitchcock**, Peter B., and **Nyfelner**, Robert. Cyclonerotriol [6-(3-hydroxy-2,3-dimethylcyclopentyl)-2-methylhept-2-ene-1,6-diol], a new sesquiterpenoid metabolite of *Fusarium culmorum*, 1586.
- Hanson**, James R., and **Siverns**, Michael. The ^{13}C nuclear magnetic resonance spectra of some methyloestratrienes; application to the mechanism of their formation, 1110.
- ^{13}C Nuclear magnetic resonance spectra of some steroidal unsaturated ketones, 1956.
- Hanson**, James R. See also **Baldwin**, Derek, 1107, 1941, **Cambie**, Richard C., 323, and **Evans**, Roger, 663, 1514.
- Harada**, Kenichi. See **Ninomiya**, Ichiya, 762.
- Hardy**, Andrew D. U. See **Cuthbertson**, Eric, 254.
- Harger**, Martin J. P. Alkylphenylphosphinic amides: formation of stable, crystalline hydrochlorides, and hydrolysis in acidic solution, 514.
- Harlow**, Richard L. See **Williams**, Hugh J., 1537.
- Haro**, Jorge. See **Crabbé**, Pierre, 1342.
- Harris**, C. John. See **Gilchrist**, Thomas L., 1969.
- Harrison**, David M. See **Bowen**, David H., 83, and **Grundon**, Michael F., 302.
- Harrison**, Geoffrey M. See **Barlow**, Michael G., 2010.
- Harrison**, John M., **Inch**, Thomas D., and **Lewis**, Gilbert J. Use of carbohydrate derivatives for studies of phosphorus stereochemistry. Part V. Preparation and some reactions of tetrahydro-1,3,2-oxazaphosphorine-2-ones and -2-thiones, 1892.
- Hart**, Robert J., **Heller**, Harry G., **Megit**, Robert M., and **Szewczyk**, Mark. Overcrowded molecules. Part XIII. Thermally stable photochromic systems involving (*E*)-2-isopropylidene-3-(naphthylmethylene)succinic anhydrides and *N*-phenylimides, 2227.
- Haruki**, Shin-ichiro. See **Tamura**, Yasumitsu, 575.
- Haruyama**, Toshio. See **Ishiguro**, Masaji, 2295.
- Hasegawa**, Tadeshi. See **Aoyama**, Hiromu, 298.
- Hashimoto**, Kiyoyasu. See **Ishibe**, Nobuyuki, 318.
- Haslam**, Edwin. See **Turner**, Mervyn J., 52.
- Hastings**, John S., **Heller**, Harry G., and **Salisbury**, Kingsley. Overcrowded molecules. Part XII. Thermal and photochemical reactions of (2*Z*,3*Z*)- and (2*Z*,3*E*)-2-benzylidene-2,3-dihydro-3-mesityl(phenyl)methylenebenzofuran, 1995.
- Heller**, Harry G., **Tucker**, Howard, and **Smith**, Keith. Overcrowded molecules. Part XI. A doubly 'forbidden' symmetry-allowed pericyclic reaction: the thermal rearrangement of (*E*)-2-benzylidene-(*Z*)-1-mesityl(phenyl)methyleneindane into (*Z*)-2-benzyl-1-mesityl(phenyl)methyleneindane, 1545.
- Hastings**, John S. See also **King**, Trevor J., 1455.
- Haszeldine**, Robert N., **McAllister**, James R., and **Tipping**, Anthony E. Polyfluorocarbanion chemistry. Part IV. Some reactions of 2*H*- and 1*H*-pentafluoropropene with nucleophiles, 2015.
- Haszeldine**, Robert N., **Tipping**, Anthony E., and **Watts**, Richard O'B. Organosilicon chemistry. Part XIV. Insertion of 1,2,2-trifluoroethylidene into C-H bonds of tetra-alkylsilanes: a novel alkyl group rearrangement, 966.
- Haszeldine**, Robert N. See also **Banks**, Ronald E., 2033, 2451, **Barlow**, Michael G., 2005, 2010, **Birchall**, J. Michael, 1638, **Booth**, Brian L., 209, **Cooper**, Peter, 702, **Davis**, Victor J., 1263, **Drayton**, Colin J., 1029, 1035, and **Fleming**, George L., 1633.
- Hay**, George W. See **Vyas**, Dolatrai M., 180.
- Hay**, Robert W., **Lawrance**, Geoffrey A., and **Curtis**, Neil F. A convenient synthesis of the tetra-aza-macrocyclic ligands *trans*-[14]-diene, tet *a*, and tet *b*, 591.
- Hayes**, Brendan A. See **Boyce**, Richard, 531.
- Haynes**, Richard K. See **Barton**, Derek H. R., 2055, 2065.
- Hayward**, Rodney C., and **Whitham**, Gordon H. *trans*-Cycloalkenes. Part VI. Addition of iodine(i) azide to *trans*-cyclo-octene, 2267.
- Hayward**, Roger J., and **Meth-Cohn**, Otto. *N*-Bridged heterocycles. Part I. Synthesis and chemistry of *NN'*-polymethylene-*o*-phenylenediamines. Part II. Synthesis and aromaticity of 1,3-polymethylene-benzimidazolium salts {[η](1,3)benzimidazolophanium salts}, -benzimidazolones, and -benzimidazolethiones, 212, 219.
- Heller**, Harry G. See **Hart**, Robert J., 2227, **Hastings**, John S., 1545, 1995, and **King**, Trevor J., 1455.
- Henderson**, George N. See **Shoppee**, Charles W., 765.
- Henderson**, Margaret S. See **Ferguson**, George, 491.
- Hendley**, Paul. See **Cross**, Brian E., 2523.
- Henry**, Rodney S., **Moodie**, W. Thomas, **Parker**, William, and **Watt**, C. Ian F. A synthetic route to 3,7-disubstituted bicyclo[3.2.2]decanes, 803.
- Hesse**, Robert H. See **Barton**, Derek H. R., 1764, 2243, 2252.
- Hewett**, Colin L., **Gibson**, Samuel G., **Gilbert**, Iain M., **Redpath**, James, **Savage**, David S., **Sleigh**, Thomas, and **Taylor**, Robert. 18-Norandrosta-8,11,13-trienes. Part IV. 7-Hydroxy-derivatives, 336.
- Hewett**, Colin L., **Redpath**, James, and **Savage**, David S. 18-Norpregna-8,11,13-trienes: reaction of 16 α ,17 α -epoxy-pregn-8-en-11-ones with Lewis acids, 1288.
- Hibino**, Satoshi. See **Kametani**, Tetsuji, 2028.
- Hickmott**, Peter W., **Woodward**, Kevin N., and **Urbani**, Raymond. Enamine chemistry. Part XX. Reactions of $\alpha\beta$ -unsaturated acid chlorides. Synthesis of alkyl 2,6-dioxobicyclo[3.3.1]nonane-1-carboxylates, alkyl 2,9-dioxobicyclo[3.3.1]nonane-7-carboxylates, and 2,9-dioxobicyclo[3.3.1]nonane-7-carbonitriles, 1885.
- Hikino**, Hiroshi, **Konno**, Chohachi, **Agatsuma**, Kunio, **Takemoto**, Tsunematsu, **Horibe**, Isao, **Tori**, Kazuo, **Ueyama**, Masako, and **Takeda**, Ken'ichi. Sesquiterpenoids. Part XLVII. Structure, configuration, conformation, and thermal rearrangement of furanodienone, isofuranodienone, curzerenone, epicurzerenone, and pyrocurzerenone, sesquiterpenoids of *Curcuma zedoaria*, 478.

- Hill, Andrew W. See Dean, Francis M., 1335.
- Hill, Robert E., Horsewood, Peter, Spenser, Ian D., and Tani, Yoshiki. Biosynthesis of vitamin B₆. Incorporation of glycoaldehyde into pyridoxal, 1622.
- Hindley, Richard M. See Baggaley, Keith H., 1670.
- Hinshaw, Barbara C., Leonoudakis, Olga, Schram, Karl H., and Townsend, Leroy B. Pyrrolopyrimidine nucleosides. Part X. Synthesis of certain 4,5-disubstituted 7-(β -D-ribofuranosyl)-pyrrolo[2,3-*d*]pyrimidines related to toyocamycin and sangivamycin, 1248.
- Hirabayashi, Yoshitaka. See Aoyama, Hiromu., 298.
- Hirata, Shoji. See Kametani, Tetsuji, 2028.
- Hirota, Kosaku. See Senda, Shigeo, 503.
- Hirst, Maurice. See Battersby, Alan R., 1140.
- Hitchcock, Peter B. See Hanson, James R., 1586.
- Hodge, Philip, and Khan, Munir N. Deoxygenation of some 3-oxo-steroids by chlorotrimethylsilane and zinc, 809.
- Hoey, James G. See Donnelly, John A., 2364.
- Hoffman, W. H. See Manhas, Maghar S., 461.
- Holker, John S. E. See Chexal, Kuldip K., 543, 549, 554.
- Holleyhead, Robin. See Bonnett, Raymond, 2261.
- Holt, Geoffrey. See Flowers, William T., 286.
- Honda, Toshio. See Kametani, Tetsuji, 2001.
- Hope, Derek, B. See Wälti, Manfred, 1691.
- Hope, Michael A. See Flowers, William T., 286.
- Horibe, Isao. See Hikino, Hiroshi, 478, and Takeda, Ken'ichi, 870.
- Horn, Ulrich. See Alcock, Nathaniel W., 386.
- Horsewood, Peter. See Hill, Robert E., 1622.
- Horwell, David C. See Boar, Robin B., 1237.
- Hossain, A. M. C. See Ayres, D. C., 707.
- Hough, Thomas L. See Cheeseman, Gordon W. H., 1888.
- Houminer, Yoram. Neighbouring hydroxy-group participation in the reductive elimination of chlorine from 5 α ,6 β -dichlorocholestanes with sodium borohydride, 277.
- Intramolecular catalysis. Part II. Electrophilic anchimeric assistance by a hydroxy-group in the opening of steroidal epoxides by azide anions, 1663.
- Hubbard, Ronald. See Barlow, Michael G., 2010.
- Huddleston, Patrick R. See Barker, John M., 2483.
- Hudec, John. Spectroscopic properties of axially and equatorially substituted β -trimethylstannyl ketones and compounds with related chromophores, 1020.
- Hudec, John. See also Powell, Graham P., 1015.
- Hudson, Mervyn F. See Barnett, Graham H., 1401.
- Hui, Wai-Haan, Li, Man Moon, and Lee, Yuk-Chun. Structure of lithocarpic lactone, a new triterpenoid from two *Lithocarpus* species of Hong Kong, 617.
- Hull, Roy, Broek, Patricia J. van den, and Swain, Michael L. Reactions of heterocycles with thiophosgene. Part IV. β ,4-Dichloro-2-isothiocyanatocinnamaldehyde, a product from 4,7-dichloroquinoline. Part V. 7-Chloro-1,2-dihydro-4-methoxy-2-thioxoquinoline-3-carbaldehyde, a product from 7-chloro-4-methoxyquinoline, 922, 2271.
- Hull, Roy. See also Cooper, Michael John, 1433.
- Hurd, Charles D. See Shipchandler, Mohammed T., 1400.
- Hurford, John R. See Collins, Peter M., 2163, 2178.
- Hussain, S. A. M. Tayyeb, Ollis, W. David, Smith, Christopher and Stoddart, J. Fraser. The stereochemistry of 2,4- and 2,3-disubstituted- γ -butyrolactones, 1480.
- Hutchings, Michael G. See Pelter, Andrew, 129, 138, 142, 145.
- Hutley, Barrie G. See Allen, David W., 619.
- Hyslop, Derek M. See Briggs, Lindsay H., 2455.
- I
- Ichikawa, Yoshifumi. See Kametani, Tetsuji, 413, 2102.
- Iddon, Brian, Pickering, Michael W., Suschitzky, Hans, and Taylor, David S. Condensed thiophen ring systems. Part XVIII. Thienozepines and thienobenzoxazoles from 6-azidobenzo[*b*]thiophens, 1686.
- Ienaga, Kazuharu. See Brown, Desmond J., 2182.
- Ignasiak, Boleslow. See Ignasiak, Teresa, 2122.
- Ignasiak, Teresa, Suszko, Jerzy, and Ignasiak, Boleslow. Structure of aromatic diazocyanides; synthesis of diazoisocyanides, 2122.
- Ihara, Masataka. See Kametani, Tetsuji, 1012, 1822, 2028.
- Ihda, Shigenori. See Ogata, Yoshiro, 1725.
- Iida, Hideo, Aoyagi, Sakae, and Kibayashi, Chihiro. Synthesis of 1,12b-didehydrolycoran (α -anhydrodihydrocaranine) and 12b α -lycoran (γ -lycoran) via photocyclisation of an enamide-ketone, 2502.
- Iitaka, Yoichi. See Ogura, Haruo, 2316.
- Ikeda, Masazumi. See Tamura, Yasumitsu, 406, 575.
- Ikeda, Shigeo. See Kametani, Tetsuji, 932.
- Ikekawa, Nobuo. See Fujimoto, Yoshinori, 2302, Ishiguro, Masaji, 2295, and Morisaki, Masuo, 1421.
- Inamoto, Naoki. See Okazaki, Renji, 270.
- Inamoto, Yoshiaki. See Takaiishi, Naotake, 789.
- Inch, Thomas D. See Harrison, John M., 1892.
- Ingram, Alexander S. See Forrester, Alexander R., 1115.
- Irwin, W. J. See Cooper, G., 798.
- Ishibe, Nobuyuki, Hashimoto, Kiyoyasu, and Yamaguchi, Yukio. Photoaddition of allenes to *p*-quinones, 318.
- Ishida, Toshiaki. See Ninomiya, Ichiya, 762.
- Ishiguro, Masaji, Kajikawa, Akira, Haruyama, Toshio, Ogura, Yoshiko, Okubayashi, Mari, Morisaki, Masuo, and Ikekawa, Nobuo. Synthetic studies of withanolides. Part I. Synthesis of 5,6 β -epoxy-4 β -hydroxy-5 β -cholest-2-en-1-one and related compounds, 2295.
- Ishii, Fumio. See Okazaki, Renji, 270.
- Ishii, Hisashi. See Ninomiya, Ichiya, 762.
- Ishikawa, Kiyoyasu. See Fröhlich, Andreas, 726.
- Ishikawa, Masayuki. See Kaneko, Chikara, 1104.
- Ishimoto, Sacchio. See Morisaki, Masuo, 1421.
- Iskander, George M. See Yagoub, A. K., 1043.
- J
- Jachymczyk, Witold. See Trigalo, François, 593.
- Jackman, David A., Sargent, Melvyn V., and Elix, John A. Structure of the lichen depsidone pannarin, 1979.
- Jackson, Anthony H. See Birch, Anthony J., 2492.
- Jackson, Richard A. See Eaborn, Colin, 470, 475.
- Jacobsen, Noel W. See Dickinson, Ronald G., 975.
- Jarman, Trevor R. See Barton, Derek H. R., 88, 1134.
- Jarvis, Steven. See Blackburn, G. Michael, 370.
- Jenkins, Peter A. See Crombie, Leslie, 1081, 1090, 1099.
- Jerina, Donald M. See Akhtar, M. Naseem, 2506.
- John, Gareth D. See Collins, Edward, 96.
- John, I. Lennox. See Forrester, Alexander R., 1115.
- Johns, Nicholas, Kirby, Gordon W., Bu'Lock, John D., and Ryles, Alan P. Stereospecific exchange of a β -methylene proton in phenylalanine preceding biosynthetic incorporation into gliotoxin, 383.
- Johnson, Alan W., Ward, David, Batten, Peter, Hamilton, Alan L., Shelton, Geoffrey, and Elson, Clive M. Condensation of ethyl diazoacetate with cobalt porphyrins, 2076.

- Johnson, Brian L.** See **Bonnett, Raymond**, 2261.
- Johnson, Graham.** See **Campbell, Malcolm M.**, 1077, 1208, 1212, 1932.
- Johnson, Stanley.** See **Cosmatos, Alexandros**, 2157.
- Johnstone, Robert A. W., and Povall, T. Jeffery.** Methods of peptide sequencing. Part I. Conversion of oligopeptides into cyclic dipeptides: a gas chromatographic-mass spectrometric study, 1297.
- Johnstone, Robert A. W., Povall, T. Jeffery, and Entwistle, Ian D.** Methods of peptide sequencing. Part II. Cyclisation of *N*-2-amino-6-nitrophenyl and *N*-3-amino-2-pyridyl derivatives of amino-acids and peptides, 1424.
- Johnstone, Robert A. W.** See also **Behan, John M.**, 1216, and **Entwistle, Ian D.**, 1300.
- Jones, David W., and Kneen, Geoffrey.** *o*-Quinonoid compounds. Part VIII. Photodecarbonylation of 1,3-diphenylinden-2-one adducts; 1,5-sigmatropic shifts in sterically stabilised *o*-quinodimethanes. Part IX. Photodecarboxylation of 2-benzopyran-3-one adducts and photo-reactions of the derived *o*-quinodimethanes, 171, 175.
- Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O. Pragnell, John H., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XIX. The action of an ant fungus ('*Acromyrmex fungus*') on oxygenated androstanes, pregnanes, and cholestanes, 1552.
- Jones, Sir Ewart R. H., Meakins, G. Denis, Miners, John O., and Wilkins, Alistair L.** Microbiological hydroxylation. Part XXI. Hydroxylations of 3-halogeno-17-oxo-, 3-halogeno-7-oxo-, and 17-halogeno-3-oxo-androstanes by the fungi *Calonectria decora*, *Rhizopus nigricans*, and *Aspergillus ochraceus*, 2308.
- Jones, Sir Ewart R. H., Thaller, Viktor, and Turner, John L.** Natural acetylenes. Part XLVII. Biosynthetic experiments with the fungus *Lepista diemii* (Singer). Biogenesis of the C₈ acetylenic cyano-acid diatreyne 2, 424.
- Jones, Sir Ewart R. H.** See also **Bell, Alan M.**, 357, 1364, 2040, **Chambers, Virginia E. M.**, 55, 1359, and **Evans, John M.**, 1356.
- Jones, Geraint, and Tringham, Gwenda T.** Some benzazocinecarboxylic acids as potential anti-inflammatory agents, 1280.
- Jones, Gurnos, and Phipps, John R.** Photochemical behaviour of some furo- and pyrrolo-[3,2-*b*]pyridin-2-ones, 458.
- Jones, Gurnos.** See also **Carde, Robert N.**, 519.
- Jones, Robert B.** See **Barrow, Kevin D.**, 1405.
- Jones, Stephen.** See **Anderson, Nicholas H.**, 852.
- Jordaan, Amor.** See **Bischofberger, Karl**, 2457, and **Hall, Richard H.**, 626.
- Joshi, Balawant S., and Kamat, Venkatesh N.** Benzoquinone derivatives. Part I. Reactions of primary aliphatic amines with embelin (2,5-dihydroxy-3-undecyl-1,4-benzoquinone) and di-*O*-methylembelin, 327.
- Part XCII. Conversion of canarigenone [14-hydroxy-3-oxo-14β-carda-4,20(22)-dienolide] into periplogenin [3β,5,14-trihydroxy-5β,14β-card-20(22)-enolide], 1972, 1976.
- Kamat, Venkatesh N.** See **Joshi, Balawant S.**, 327.
- Kamat, Vinayak S., Audichya, Thakur D., Trivedi, Girish K., and Bhattacharyya, Sasanka C.** Structures of two dimers formed from oroselol with acids, 204.
- Kametani, Tetsuji, Fujimoto, Yasuo, Suzuki, Yoshio, Tanaka, Yoshiro, Nyu, Kioysato, Yamanaka, Tohru, and Ikeda, Shigeo.** Methyl transfer: the mass spectra of reserpine derivatives, 932.
- Kametani, Tetsuji, Hirata, Shoji, Nemoto, Hideo, Ihara, Masataka, Hibino, Satoshi, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part DCXXIX. A ready synthesis of indeno[2,1-*a*][3]-benzazepines, 2028.
- Kametani, Tetsuji, Kajiwara, Masahiro, Takahashi, Tamiko, and Fukumoto, Keiichiro.** Tetra- and hexa-dehydro-yohimbane synthesis by an intermolecular cycloaddition of *o*-quinodimethane, 737.
- Kametani, Tetsuji, Kato, Yasuyuki, Honda, Toshio, and Fukumoto, Keiichiro.** Reaction of 1,2-dihydrobenzocyclobutene-1-carbonitriles with methyl acrylate as an unsymmetric dienophile, 2001.
- Kametani, Tetsuji, Suzuki, Toshio, Ichikawa, Yoshifumi, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part CDXXXIV. A novel total synthesis of olivacine (1,5-dimethyl-6*H*-pyrido[4,3-*b*]-carbazole), 2102.
- Kametani, Tetsuji, Suzuki, Toshio, Takahashi, Kimio, Ichikawa, Yoshifumi, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part DLXXXIX. A simple route to pyridocarbazoles, 413.
- Kametani, Tetsuji, Takeda, Hiromitsu, Nemoto, Hideo, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part DCXXII. Total synthesis of (±)-mappicine [7-(1-hydroxypropyl)-8-methylindolizino-[1,2-*b*]quinolin-9(11*H*)-one], 1825.
- Kametani, Tetsuji, Takemura, Makoto, Takahashi, Keiichi, Takeshita, Mitsuhiro, Ihara, Masataka, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part DXCVII. Novel formation of benzo-[4,5]cyclohept[1,2,3-*ij*]isoquinolines from berbinium salts, 1012.
- Kametani, Tetsuji, Ujice, Akira, Ihara, Masataka, and Fukumoto, Keiichiro.** Studies on the syntheses of heterocyclic compounds. Part DCXX. Total synthesis of (±)-orientalidine and a positional isomer, 1822.
- Kaneko, Chikara, Yamada, Sachiko, Sugimoto, Akiko, Ishikawa, Masayuki, Suda, Tatsuo, Suzuki, Michiko, and Sasaki, Satoshi.** Synthesis and biological activity of 2α-hydroxyvitamin D₃, 1104.
- Kapil, Randhir S.** See **Shoeb, Aboo**, 1245.
- Kardouche, Nabil G., and Owen, Leonard N.** Dithiols. Part XXVII. Conversion of aliphatic and alicyclic carbonates and thiocarbonates into trithiocarbonates, 754.
- Kardouche, Nabil G.** See also **Ali, Md. Erfan**, 748.
- Kashima, Choji, Aoki, Yoshiko, and Omote, Yoshimori.** A new synthesis of α-amino-acids by the reaction of Grignard reagents with ethyl *N*-trichloroethylidene-carbamate, 2511.
- Kaspersen, Frans M., and Pandit, Upendra K.** Unconventional nucleotide analogues. Part XIII. (2*S*,4*S*)-2-hydroxymethyl- and 2-carboxy-4-(purin-9-yl)-pyrroli-

K

Kagi, Douglas A. See **Ayyar, K. Subrahmania**, 1727.

Kajikawa, Akira. See **Ishiguro, Masaji**, 2295.

Kajiwara, Masahiro. See **Kametani, Tetsuji**, 737.

Kakisawa, Hiroshi. See **Sakaino, Yoshiko**, 2361.

Kamano, Yoshiaki, Pettit, George R., and Tozawa, Machiko. Steroids and related natural products. Part XCI. Synthesis of the cardenolides canarigenin and uzarigenin.

- dines. Part XIV. (2*S*,4*S*)-2-Hydroxymethyl- and 2-carboxy-4-(pyrimidin-1-yl)pyrrolidines, 1617, 1798.
- Kato**, Hiroshi. See **Matsukubo**, Hiroshi, 632.
- Kato**, Yasuyuki. See **Kametani**, Tetsuji, 2001.
- Katritzky**, Alan R., **Rizvi**, S. Q. Abbas, and **Suwinski**, Jerzy W. *N*-Oxides and related compounds. Part L. Reactions of pyridinium and sulphonium ylides with pyrylium salts, 2489.
- Katritzky**, Alan R. See also **Dennis**, Nicholas, 1506.
- Katsoyannis**, Panayotis G., **Ginos**, James, **Cosmatos**, Alexandros, and **Schwartz**, Gerald P. A synthetic human insulin analogue modified at position B²². [Lys²²-B] Human insulin, 464.
- Katsoyannis**, Panayotis G. See also **Cosmatos**, Alexandros, 2157.
- Kawano**, Nobusuke. See **Okigawa**, Masayoshi, 1563.
- Keating**, Martin. See **Adger**, Brian M., 31, 41.
- Keenan**, Alan K. See **Cullen**, William P., 1671.
- Keenan**, Patrick J. See **Cullen**, William P., 1671.
- Kershaw**, Melvyn J. See **Barlow**, Michael G., 2005, 2010.
- Keys**, Alfred J. See **Barton**, Derek H. R., 2069.
- Khan**, Mazhar Ali, and **Rafla**, Fathi Kamel. Synthesis of isoxazolo[3,4-*b*]pyridin-3(1*H*)-one and isoxazolo[5,4-*b*]pyridin-3(2*H*)-one, 693.
- Khan**, Munir N. See **Hodge**, Philip, 809.
- Khan**, Naeema, **Loeber**, David E., **Toube**, Trevor P., and **Weedon**, Basil C. L. Carotenoids and related compounds. Part XXX. Stereochemistry and synthesis of phytoene, 1457.
- Khan**, Nizam U. See **Okigawa**, Masayoshi, 1563.
- Khattak**, Ismail, **Kirk**, David N., **Peach**, Catherine M., and **Wilson**, Malcolm A. *D*-Homo-steroids. Part IV. Acetolysis of *D*-homo-5 α -androstan-17 α *\beta*-yl tosylate: a novel rearrangement involving the steroid backbone, 916.
- Kibayashi**, Chihiro. See **Iida**, Hideo, 2502.
- Kikuchi**, Katsuko. See **Ogura**, Haruo, 2316.
- Kilbee**, Geoffrey W. See **Crombie**, Leslie, 1497.
- Kime**, David E. Synthesis of 1 α -hydroxycorticosterone, 2371.
- King**, Richard W. See **Campbell**, Rodwill V. M., 897, and **Crombie**, Leslie, 913.
- King**, Trevor J., **Hastings**, John S., and **Heller**, Harry G. *X*-Ray analysis of (*Z*)-2-*p*-methoxyphenylmethylene-benzofuran-3(2*H*)-one, 1455.
- King**, William B. See **Butler**, Richard N., 61.
- Kirby**, Gordon W., **Narayanaswami**, Subramanian, and **Rao**, Porubi S. On the preparation of L-[2,3-³H₂]phenylalanine and L-[2,3-³H₂]tyrosine, 645.
- Kirby**, Gordon W. See also **Johns**, Nicholas, 383.
- Kirk**, David N., and **Mudd**, Alan. *D*-Homo-steroids. Part V. A study of the mechanism of *D*-homoannulation of 17 α -hydroxypregnan-20-ones with boron trifluoride, 1450.
- Kirk**, David N., and **Rajagopalan**, Maruthiandan S. Synthesis of 18-substituted steroids. Part I. 18,21-Dihydroxypregn-4-ene-3,20-dione (18-hydroxydeoxycorticosterone), 1860.
- Kirk**, David N., and **Shaw**, Philip M. Backbone rearrangements of steroidal 5-enes, 2284.
- Kirk**, David N. See also **Khattak**, Ismail, 916.
- Kirson**, Isaac, **Cohen**, Ariela, and **Abraham**, Arieh. Withanolides Q and R, two new 23-hydroxy-steroidal lactones, 2136.
- Kirson**, Isaac. See also **Glotter**, Erwin, 1370.
- Kitagawa**, Nobusih, **Nojima**, Masatomo, and **Tokura**, Niichiro. Formation of carbocations from bornan-2-*exo*-ol and its derivatives and their reactions with some nucleophiles, 2369.
- Kneen**, Geoffrey. See **Jones**, David W., 171, 175.
- Knight**, David W., and **Pattenden**, Gerald. 4-Phosphoranylidenebutenolide intermediates in the synthesis of 4-ylidenebutenolides and 4-ylidenetetrone acids. Synthesis of alkylidenephthalide constituents of celery odour and models for freelingyne, 635.
- Synthesis of freelingyne, an acetylenic sesquiterpene from *Eremophila freelingii*, 641.
- Koizumi**, Naoyuki. See **Morisaki**, Masuo, 1421.
- Koletar**, Judit. See **Coombs**, Robert V., 792.
- Kondo**, Takeshi. See **Yokoyama**, Masataka, 160.
- Konno**, Chohachi. See **Hikino**, Hiroshi, 478.
- Kooi**, Johannes, and **Boyer**, Joseph H. Photolysis of benzoyl cyanide in solution, 2374.
- Kooi**, Johannes. See also **Boyer**, Joseph H., 1743.
- Koreeda**, Masato. See **Akhtar**, M. Naseem, 2506.
- Kornilov**, Mikhail Y. See **Abbott**, Patrick J., 2322.
- Kratzl**, Karl. See **Lonsky**, Werner, 169.
- Kricka**, Larry J. See **Ahmed**, Munir, 71.
- Kurzer**, Frederick. See **Esmail**, Roshan, 1781, 1787.
- Kusumi**, Takenori. See **Sakaino**, Yoshiko, 2361.

L

- Labadie**, Rudi Paul. See **Banch**, Hans-Joachim, 689.
- Labuschagne**, A. Johan H., **Meyer**, Cornelius J., **Spies**, Hendrik S. C., and **Schneider**, David F. Formation of vinyl sulphides *via* successive sigmatropic rearrangements of an allylic sulphonium ylide, 2129.
- Lacy**, Philip H., and **Smith**, Donald C. C. 1*H*-Benzo[*de*]-cinnoline and 8-hydroxy-1-naphthonitrile, 419.
- Laird**, Trevor. See **Bartlett**, A. Josephine, 1315.
- Lal**, Bansi. See **Manhas**, Maghar, S., 461.
- Lam**, Choi-nang, and **Mellor**, John M. Dehydration of some 9-methyl-9-hydroxybicyclo[3.3.1]nona-3,7-dien-2-ones, 80.
- Lamdan**, Samuel. See **Perillo**, Isabel, 894.
- Landberg**, Erik B., and **Lown**, William J. Application of functionalised 1,3-dipoles, to the synthesis of fused heterocycles, 1326.
- Landor**, Phyllis D., **Landor**, Stephen R., and **Leighton**, Philip, Allenes. Part XXXII. A general synthesis of allene-diyne from allenic bromides and butadiynyl(trimethyl)silane and the synthesis of two natural allenes, (\pm)-octa-2,3-diene-5,7-diyne-1-ol and (\pm)-undeca-5,6-diene-8,10-diyne-1-ol, 1628.
- Landor**, Stephen R. See **Landor**, Phyllis D., 1628.
- Lardicci**, Luciano. See **Giacomelli**, Giampaolo, 1795.
- Latif**, Nazih, **Mishriky**, Nawal, and **Girgis**, Nabih S. Carbonyl and thiocarbonyl compounds. Part XIV. Reactions of tetrachloro-*o*-benzoquinone with 3-(2-furyl)- and 3-(2-thienyl)-acrylophenones, 1052.
- Lauder**, Huntly St. J. See **Cocker**, Wesley, 332.
- Lawrance**, Geoffrey A. See **Hay**, Robert W., 591.
- Leaver**, Christopher J. See **Barton**, Derek H. R., 2069.
- Leclerc**, Gérard. See **Barton**, Derek H. R., 2055.
- Lee**, Eun. See **Govindachari**, Tuticorin, R., 2134.
- Lee**, Yuk-Chun. See **Hui**, Wai-Haan, 617.
- Leftwick**, Allan P. See **Cooper**, Robin D. G., 2195.
- Leighton**, Philip. See **Landor**, Phyllis D., 1628.
- Leistner**, Eckhard. See **Bauch**, Hans-Joachim, 689.

- Lennon, Mary, McLean, Angus, Proctor, George R., and Sinclair, Ian W. Azabenzocycloheptenones. Part XVIII. Amines and amino-ketones of the tetrahydro-3-benzazepin-1-one series. 622.
- Leonoudakis, Olga. See Hinshaw, Barbara C., 1248.
- Lethbridge, Andrew, Norman, Richard O. C., and Thomas, C. Barry. Neighbouring-group effects in the oxidation of olefins by mercury(II), thallium(III), and lead(IV) acetates, 2465.
- Lethbridge, Andrew, Norman, Richard O. C., Thomas, C. Barry, and Parr, William J. E. Oxidation of oct-1-ene and *trans*-oct-4-ene by lead(IV), thallium(III), and mercury(II) acetates, 231.
- Leung, Albert Y. See Brochmann-Hanssen, Einar, 1531.
- Level, Michel. See Trigalo, François, 600.
- Lewis, David. See Bonner, Trevor G., 1323.
- Lewis, Gilbert J. See Harrison, John M., 1892.
- Leyshon, Wynford M., and Wilson, David A. Preparation of sulphur-containing nitrones from sulphides; thermal elimination reactions of nitrones, 1920.
- Photolysis of sulphur-containing nitrones; support for a methylenoxaziridine radical intermediate and formation of new heterocycles, 1925.
- A thermal reaction of 2-(thiolan-2-yl)oxaziridines and related compounds; evidence for neighbouring group participation in the displacement of oxygen by sulphur at nitrogen, 1929.
- Li, Man Moon. See Hui, Wai-Haan, 617.
- Lim, Peter K. K. See Cadogan, J. I. G., 2376.
- Lin, Lawrence J. See Aberhart, D. John, 2517.
- Lister, John H. See Fenn, M. David, 485.
- Llewellyn, Jeffrey W., and Williams, J. Michael. Nitroso-amide decomposition. A new method for selective degradation of amino-sugar-containing compounds, 1428.
- Lloyd, Douglas, McNab, Hamish, and Marshall, Donald R. Diazepines. Part XX. The properties of 2,3-dihydro-1,4-diazepinium perchlorate, 1260.
- Loeber, David E. See Khan, Naeema, 1457.
- Loewenthal, H. J. Eli, and Schatzmiller, Shimon. Synthesis of compounds related to gibberellic acid. Part IV. Construction of a tetracyclic system containing functional elements of rings A, C, and D, 2149.
- Long, Dermot J. See O'Donovan, Daniel G., 415.
- Lonsky, Werner, Traitler, Helmut, and Kratzl, Karl. A simple method for the removal of phenolic hydroxy-groups, 169.
- Lown, J. William. See Landberg, B. Erik, 1326.
- Lundberg, Robert D. See Shoppee, Charles W., 2205, 2208.
- Lwowski, Walter, and Walker, Brian J. Reactions of $1\lambda^6\sigma^4,2,4$ -triazoline-3,5-dione decomposition products with organophosphorus nucleophiles, 1309.
- McAndrew, Bruce A., and Russell, Stephen W. Bicyclic analogues of exaltone (cyclopentadecanone) and muscone (3-methylcyclopentadecanone), 1172.
- MacBride, J. A. Hugh. See Chambers, Richard D., 396.
- McCarney, Colin C., and Ward, Robert S. An improved method for the preparation of monoalkylketenes, 1600.
- McCombie, Stuart W. See Barton, Derek H. R., 1574.
- McCordle, Robert, Turnbull, James K., and Anderson, Allan B. Microbiological hydroxylation of 17-norkauran-16-one and *ent*-17-norkauran-16-one with the fungus *Rhizopus nigricans*, 1202.
- McCordle, Robert. See also Ferguson, George, 491, and McAlees, Alan J., 861, 1641.
- McDonald, Brian G., and Proctor, George R. Conversion of 2-chloroallylamines into heterocyclic compounds. Part I. 2-Methylindoles, 1,5,6,7-tetrahydro-3-methylindol-4-ones, and related heterocycles, 1446.
- McGhie, James F. See Boar, Robin B., 1237, 1242.
- Mackay, Donald. See Barrett, William G., 1046.
- McLean, Angus. See Lennon, Mary, 622.
- McMillan, Ian. See Brain, Edward G., 562.
- MacMillan, Jake. See Bearder, John R., 721, Bowen, David H., 83, 378, and Durley, Richard C., 163.
- McMurry, T. Brian H. See Fröhlich, Andreas, 726.
- McMurtrey, Kenneth. See Brochmann-Hanssen, Einar, 1531.
- McNab, Hamish. See Lloyd, Douglas, 1260.
- MacNicol, David D. See Cuthbertson, Eric, 254.
- McOmie, John F. W., Searle, John B., and Saleh, Sadiq A. Thiele-Winter acetoxylation of quinones. Part VII. Some bromo-derivatives of phenyl-1,4-benzoquinone, 314.
- McOmie, John F. W. See also Blatchly, John M., 309.
- McQuillin, Francis J., and Parker, David George. Complexing of terpenes with transition metals. Part V. Reactions of 3,7-dimethylocta-1,6-diene and of 7-methoxy-3,7-dimethyloct-1-ene with rhodium(III) and thallium(III), 2092.
- Macrae, Robert, and Young, Geoffrey T. Amino-acids and peptides. Part XXXVIII. Use of 4-picolylloxycarbonylhydrazides as 'handles' to facilitate peptide synthesis. Synthesis of fragments related to porcine gastric inhibitory polypeptide, 1185.
- Magnus, Philip D. See Barton, Derek H. R., 1610, 2055.
- Magojo, Herbert E. M. See Drewes, Siegfried, E., 1283.
- Mah, Henry. See Coombs, Robert V., 792.
- Mah, Talat. See Fleming, Ian, 964.
- Mahadevan, Venkatanarayana. See Akhtar, M. Naseem, 2506.
- Mahmood, Safia. See Brimacombe, John S., 1292.
- Malhotra, Ravinder K. See Singh, Harkishan, 1404.
- Mallams, Alan K. See Cooper, David J., 785, and Davies, D. Huw, 814.
- Mallik, Rita. See Chatterjee, Amereshwar, 1934.
- Mane, Ramachandra B., and Rao, G. S. Krishna. Carboxymethylation of *p*, $\alpha\beta$ -tetramethylstyrene by manganese(III) acetate. Reductive cyclization during treatment of the derived γ -aryl- γ -lactone with polyphosphoric acid to give 4-isopropyl-7-methyl-1-tetralone, 1235.
- Manhas, Maghar S., Hoffman, W. H., Lal, Bansi and Bose, Ajay K. Steroids. Part X. A convenient synthesis of alkyl aryl ethers, 461.
- Manhas, M. S. See also Bose, Ajay K., 1880.
- Manitto, Paolo, Gramatica, Paola, and Monti, Diego. Biosynthesis of phenylpropanoid compounds. Part II.

M

- McAlees, Alan J., and McCordle, Robert. Ring c functionalised diterpenoids. Part V. Preparation and formolysis of (16S)-*ent*-12 β -*p*-tolylsulphonyloxykaurane and the (16S)-*ent*-13-*p*-tolylsulphonyloxyatisanes, 861.
- McAlees, Alan J., McCordle, Robert, and Murphy, Shane T. Ring c functionalised diterpenoids. Part VI. Solvolysis of *ent*-methyl 12 β -*p*-tolylsulphonyloxybeyeran-19-oate, 1641.
- McAllister, James R. See Fleming, George L., 1633, and Haszeldine, Robert N., 2015.

- Incorporation of specifically labelled cinnamic acids into eugenol, 1548.
- Manly**, David P. See **Barton**, Derek H. R., 1568.
- Marsh**, Wayne C. See **Ferguson**, George, 491.
- Marshall**, Donald R. See **Lloyd**, Douglas, 1260.
- Maslakiewicz**, Jerzy R. See **Chambers**, Richard D., 396, 1130.
- Maślińska-Solich**, Jolanta. Reactions of unsaturated 1,3-dioxan derivatives. Part VI. Addition of 2-(2-furyl)-1,3-dioxan and its derivatives to maleic anhydride, 606.
- Mathur**, Suchet S., and **Suschitsky**, Hans. Syntheses of heterocyclic compounds. Part XXXI. Triazolium tetrafluoroborates from the cycloaddition of alkoxydiazonium salts to azines, hydrazones, and anils derived from aromatic aldehydes. Part XXXII. Intramolecular 1,3-dipolar cycloadditions of 2-allyl-oxy- and 2-prop-2-ynyloxy-aromatic aldehyde azines, 2474, 2479.
- Matsukubo**, Hiroshi, and **Kato**, Hiroshi. Heterocycles by cycloaddition. Part I. Cycloaddition-extrusion-ring expansion reactions of five-membered mesoionic compounds with diphenylcyclopropenone and related compounds: preparation of six-membered heterocycles, 632.
- Matsumoto**, Shigeru. See **Yoneda**, Fumio, 1907.
- Mauger**, Anthony B. Thermal degradation of actinomycins to dioxopiperazines, 1320.
- May**, Jesse A., jun., and **Townsend**, Leroy B. A general synthesis of 4-substituted 1-(β -D-ribofuranosyl)imidazo-[4,5-c]pyridines, 125.
- Meakins**, G. Denis. See **Bell**, Alan M., 357, 1364, 2040, **Chadwick**, Derek J., 523, **Chambers**, Virginia, E. M., 55, 1359, **Evans**, John M., 1356, and **Jones**, Sir Ewart R. H., 1552, 2308.
- Megit**, Robert M. See **Hart**, Robert J., 2227.
- Mellor**, John M., and **Pinto**, Julio A. M. da Cunha. Elaboration of sclareol by Claisen rearrangement, 1009.
- Mellor**, John M. See also **Lam**, Choi-nang, 80.
- Mellows**, Graham. See **Barrow**, Kevin D., 877.
- Menzies**, Ian D. See **Barton**, Derek H. R., 2055.
- Merchant**, Z. See **Finch**, Paul, 1682.
- Merlini**, Lucio. See **Arnone**, Alberto, 186.
- Meth-Cohn**, Otto. See **Hayward**, Roger J., 212, 219.
- Meyer**, Cornelius J. See **Labuschagne**, A. Johan H., 2129.
- Mickey**, Charles D. See **Baimbridge**, Charles L., 1395.
- Midorikawa**, Hiroshi. See **Sakurai**, Akio, 2025.
- Mihai**, Gheorghe G., **Tarassoff**, Peter G., and **Filipescu**, Nicolae. Photohydroxylation of anthraquinone in concentrated sulphuric acid, 1374.
- Miki**, Yasuyoshi. See **Tamura**, Yasumitsu, 406.
- Mills**, Roy W. See **Eck**, Charles R., 251.
- Milner**, Nigel E. See **Coe**, Paul L., 654.
- Minato**, Hitoshi. See **Shimaoka**, Ariyoshi, 2043.
- Miners**, John O. See **Bell**, Alan M., 357, 1364, 2040, **Chambers**, Virginia E. M., 55, 1359, **Evans**, John M., 1356, and **Jones**, Sir Ewart R. H., 1552, 2308.
- Mineshima**, Fukashi. See **Takehima**, Tatsuo, 1277.
- Minshall**, Jonathan. See **Brimacombe**, John S., 682.
- Mishriky**, Nawal. See **Latif**, Nazih, 1052.
- Mitchard**, David A. See **Crombie**, Leslie, 1081.
- Miyamoto**, Masaharu. See **Yamaguchi**, Isomaro, 996.
- Miyase**, Nobuko. See **Yokoyama**, Masataka, 160.
- Miyashita**, Koichi. See **Abramovitch**, Rudolph A., 2413.
- Mizuno**, Kazuhiko, **Pac**, Chyongjin, and **Sakurai**, Hiroshi. Photochemical reactions of aromatic compounds. Part XXIII. Photochemical reactions of alkyl vinyl ethers with 2-naphtho-nitrile, 2221.
- Moir**, Michael. See **Ferreira**, Margarida A., 1113.
- Mok**, King-Leung, and **Nye**, Martin J. Rationalisation of cycloaddition behaviour by use of Hückel frontier molecular orbitals, 1810.
- Money**, Thomas. See **Eck**, Chales R., 251.
- Monti**, Diego. See **Manitto**, Paolo, 1548.
- Moodie**, W. Thomas. See **Henry**, Rodney S., 803.
- Moody**, Christopher J. See **Gilchrist**, Thomas L., 1964, 1969.
- Morisaki**, Masuo, **Koizumi**, Naoyuki, **Ikekawa**, Nobuo, **Takehita**, Toru, and **Ishimoto**, Sacchio. Synthesis of active forms of vitamin D. Part IX. Synthesis of 1 α ,24-dihydroxycholecalciferol, 1421.
- Morisaki**, Masuo. See also **Fujimoto**, Yoshinori, 2302, and **Ishiguro**, Masaji, 2295.
- Morley**, John S. See **Dutta**, Anand S., 1712.
- Morris**, Trevor. See **Bailey**, A. Sydney, 420.
- Morton**, James B. See **Davies**, D. Huw, 814.
- Morton**, William D. See **Drayton**, Colin J., 1035.
- Moss**, Frank. See **Banks**, Ronald E., 2033.
- Mudd**, Alan. See **Kirk**, David N., 1450.
- Munasinghe**, V. Ranjit N. See **Collins**, Peter M., 1700.
- Muraoka**, Motomu. See **Takehima**, Tatsuo, 1277.
- Murofushi**, Noboru. See **Yamaguchi**, Isomaro, 996.
- Murphy**, Shane T. See **McAlees**, Alan J., 1641.
- Murphy**, William S. See **Boyce**, Richard, 531.
- Murray**, John C. F. See **Bacon**, Reginald G. R., 1267.
- Murray**, Stephen. See **Dean**, Francis M., 1335, 1706.
- Musgrave**, Oliver C. See **Buchan**, Robert, 568, 811, 2185.
- Myall**, Christopher J., and **Pletcher**, Derek. Electrochemical preparation of bismethylsulphonyl peroxide and its reactions with aromatic hydrocarbons, 953.

N

- Nagel**, Joek. See **Reese**, Colin B., 934.
- Naito**, Takeaki. See **Ninomiya**, Ichiya, 762, 1720, 1791.
- Nakayama**, Jyuzo. Reaction of benzyne with carbon disulphide: formation and reaction of 1,3-benzodithiol-2-ylidene, 525.
- Narayananswami**, Subramanian. See **Kirby**, Gordon W., 645.
- Naser-ud-Din**. See **Garwood**, Robert F., 2471.
- Nasielski-Hinkens**, R., and **Benedek-Vamos**, M. Synthesis of di- and tetra-substituted 1,4,5,8-tetra-azaphenanthrenes (pyrazino[2,3-f]quinoxalines), 1229.
- Nasini**, Gianluca. See **Arnone**, Alberto, 186.
- Nasipuri**, Dhanonjoy, and **Chaudhuri**, Swadesh R. Ray. Cyclisation reactions. Part III. Cyclisation of *trans*-2,3-epoxy-9-*m*-methoxyphenyl-2,6-dimethylnon-6-ene, 262.
- Nasipuri**, Dhanonjoy, and **De Dalal**, Ila. Polycyclic systems. Part XVI. Synthesis of 1-isopropyl-2,8-dimethylphenanthrene, 2052.
- Nayler**, John H. C. See **Brain**, Edward G., 562.
- Neilson**, Douglas G. See **Fraser**, John K., 2280.
- Nemoto**, Hideo. See **Kametani**, Tetsuji, 1825, 2028.
- Neuss**, Geoffrey R. H. See **Booth**, Brian L., 209.
- Newlands**, Leslie R. See **Fraser**, John K., 2280.
- Niewiadomski**, Krzysztof B., and **Suschitzky**, Hans. Preparation and reactions of some *o*-dialkylaminoarylmethylene-substituted azlactones (oxazol-5-ones), 1679.
- Ninet**, Léon. See **Gordon**, James J., 819.
- Ninomiya**, Ichiya, **Naito**, Takeaki, **Ishii**, Hisashi, **Ishida**,

- Toshiaki, Ueda, Miyoko, and Harada, Kenichi. Syntheses of dihydro-derivatives of the benzo[*c*]phenanthridine alkaloids avicine and nitidine by enamide photocyclisation, 762.
- Ninomiya, Ichiya, Naito, Takeaki, and Takasugi, Hisashi. Photocyclisation of enamides. Part VII. A new synthesis of the protoberberine alkaloids. Part VIII. Synthesis of 13-methylberbines; total synthesis of (\pm)-cavidine, 1720, 1791.
- Nishio, Takehito. See Aoyama, Hiromu, 298.
- Noakes, Timothy J. See Banks, Ronald E., 1419.
- Noda, Hiroshi. See Aoyama, Hiromu, 298.
- Nojima, Masatomo. See Kitagawa, Nobuhisa, 2369.
- Norman, Richard O. C. See Clark, Ferrers R. S., 121, 1230, Lethbridge, Andrew, 231, 2465, and Smith, John R. Lindsay, 1200.
- Nunn, Arthur J., and Rowell, Frederick J. Synthesis and reactions of 12-aryl-1,2,3,4-tetrahydro-6*H*-indazolo-[2,1-*a*]benzotriazolium hydroxide inner salts and 8,9,10,11-tetrahydro-7,10,10-trimethyl-8-oxo-5*H*-indazolo[1,2-*a*]benzotriazolium hydroxide inner salt, 629. Synthesis of 3-alkyl-1-aryl-6,7-dihydro-6,6-dimethylindazol-4(5*H*)-ones, 2,3-diaryl-4,5,6,7-tetrahydroindazoles, and related compounds, 2435.
- Nye, Martin J. See Mok, King-Leung, 1810.
- Nyfelner, Robert. See Hanson, James R., 1586.
- Nyu, Kiyosato. See Kametani, Tetsuji, 932.
- Okruszek, Andrzej. See Stec, Wojciech J., 1828.
- Okubayashi, Mari. See Ishiguro, Masaji, 2295.
- Ollis, W. David. See Anderson, Nicholas H., 825, 852, Bartlett, A. Josephine, 1315, Broughton, Barbara J., 842, Devlin, John P., 830, 846, 848, Gordon, James J., 819, and Hussain, S. A. M. Tayyeb, 1480.
- Omote, Yoshimori. See Kashima, Choji, 2511.
- Oparaeche, Nathan N. See Collins, Peter M., 1695, 1700.
- Orazi, Orfeo O., and Corral, Renée A. Cyclic products from sulphonamides and formaldehyde, 772.
- Ord, Malcolm R., Piggin, Christine M., and Thaller, Viktor. Natural acetylenes. Part XLVIII. Absolute configurations of a C_7 diynol, a C_9 diyne triol, and a C_9 dihydroxydiynone from fungal cultures, 687.
- O'Riordan Edward A. See Boyce, Richard, 531.
- O'Sullivan, Daniel. See Bugge, Katherine, 572.
- Overend, W. George. See Collins, Peter M., 2163, 2178.
- Overton, Karl H. See Cunningham, Ian M., 2140.
- Owen, David M., Pedler, Alan E., and Tatlow, J. Colin. Reactions of octafluoroacridone and related compounds, 1380.
- Owen, John D. Absolute configuration of the most potent isomer of the pyrethroid insecticide α -cyano-3-phenoxybenzyl *cis*-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate by crystal structure analysis, 1865.
- Owen, Leonard N. See Ali, Md. Erfan, 748, and Kardouche, Nabil G., 754.
- Ozari, Yehuda. See Glotter, Erwin, 2104.
- Ozawa, Kenji. See Okazaki, Renji, 270.

O

- O'Donovan, Daniel G., Long, Dermot J., Forde, Edward, and Geary, Patrick. The biosynthesis of *Lobelia* alkaloids. Part III. Intermediates in the biosynthesis of lobeline; biosynthesis of 8,10-diethyllobelidione, 415.
- Ogata, Yoshiro, Takagi, Katsuhiko, and Ihda, Shigenori. Type II photoelimination of thiobenzoic acid *O*-esters; photolysis of optically active *O*-2-phenylbutyl thiobenzoate, 1725.
- Ogata, Yoshiro. See also Urasaki, Iwao, 1285.
- Ogura, Haruo, Katsuko, Kikuchi, Takayanagi, Hiroaki, Furuhashi, Kimio, Iitaka, Yoichi, and Acheson, R. Morrin. Studies on heterocyclic compounds. Part XVI. Crystal and molecular structures of three products of 1,4-dipolar cycloaddition of dimethyl acetylenedicarboxylate to benzothiazole, 2316.
- Ogura, Yoshiko. See Ishiguro, Masaji, 2295.
- Ohashi, Mamoru. See Yamasaki, Kazuyuki, 93, and Yoshino, Akira, 735.
- Okabe, Eiichi. See Takeshima, Tatsuo, 1277.
- Okawa, Kazumi. See Okazaki, Renji, 270.
- Okazaki, Renji, Ishii, Fumio, Okawa, Kazumi, Ozawa, Kenji, and Inamoto, Naovi. Photochemical reactions of 1,2,4-dithiazole-3-thione and 1,2-dithiole-3-thione with olefins, 270.
- Okely, H. Martyn. See Grundon, Michael F., 150.
- Okigawa, Masayoshi, Khan, Nizam U., Kawano, Nobusuke, and Rahman, Wasiur. Application of a lanthanide shift reagent, Eu(fod)₃ to the elucidation of the structures of flavones and related compounds, 1563.
- Okogun, Joseph I., Fakunle, Christopher O., Ekong, Donald E. U., and Connolly, Joseph D. Chemistry of the meliacins (limonoids). The structure of melianin A, a new protomeliacin from *Melia azedarach*, 1352.
- Okogun, Joseph I. See also Ekong, Donald E. U., 2118.

P

- Pac, Chyongjin. See Mizuno, Kazuhiko, 2221.
- Pandit, Upendra K. See Kaspersen, Frans M., 1617, 1798.
- Panunzio, Mauro. See Cainelli, Gian Franco, 1273.
- Parker, David George. See McQuillin, Francis J., 2092.
- Parker, William. See Henry, Rodney S., 803.
- Parr, William J. E. See Lethbridge, Andrew, 231.
- Parsons, David G. Synthesis of ten isomers of a macrocyclic polyether, tetramethyldibenzo-18-crown-6, and their complexes with salts of alkali metals, 245.
- Parthasathy, Papagudi C. See Govindachari, Tuticorin R., 2134.
- Pattenden, Gerald. See Campbell, Rodwill V. M., 897, Crombie, Leslie, 1500, and Knight, David W., 635, 641.
- Pavanasasivam, Gowsala, and Sultanbawa, M. Uvais S. Chemical investigation of Ceylonese plants. Part XII. (+)-3,4',5,7-Tetrahydroxy-3'-methoxyflavanone [(+)-dihydroisorhamnetin] and 3,5,7-trihydroxy-3',4'-dimethoxyflavone (Dillenetin): two new natural products from *Dillenia indica* L., 612.
- Peach, Catherine M. See Khattak, Ismail, 916.
- Pearce, Ronald. See Eaborn, Colin, 470, 475.
- Peart, Barry J. See Berg, Sidney S., 1040.
- Pechet, Maurice M. See Barton, Derek H. R., 1764, 2243, 2252.
- Pedler, Alan E. See Owen, David M., 1380.
- Peek, Michael E. See Gait, Stephanie F., 19.
- Pelter, Andrew, Hutchings, Michael G., Rowe, Keith, and Smith, Keith. The chemistry of organoborates. Part II. High yield syntheses of trialkylmethanols by the cyanoborate process, 138.
- Pelter, Andrew, Hutchings, Michael G., and Smith, Keith.

R

- The chemistry of organoborates. Part III. Protonation of trialkylcyanoborates, 142.
- Pelter**, Andrew, **Hutchings**, Michael G., **Smith**, Keith, and **Williams**, David J. Chemistry of organoborates. Part IV. Stereochemistry and relative migratory aptitudes of alkyl groups in the cyanoborate process, 145.
- Pelter**, Andrew, **Smith**, Keith, **Hutchings**, Michael G., and **Rowe**, Keith. The chemistry of organoborates. Part I. New, high yield ketone syntheses by reaction of trialkylcyanoborates with acylating agents or *N*-phenylbenzimidoyl chloride, 129.
- Pemberton**, Phillip W. See **Barrow**, Kevin D., 1405.
- Pendergast**, William. Purine studies. Part XV. Addition of hydrogen sulphite ion to purines, 2240.
- Pendlebury**, Anthony. See **Bell**, Alan M., 357, and **Evans**, John M., 1356.
- Perillo**, Isabel, and **Lamdan**, Samuel. Reaction of an asymmetric imidazolium compound with nucleophiles, 894.
- Peters**, C. Allan. See **Shipchandler**, Mohammed T., 1400.
- Pettit**, George R. See **Kamano**, Yoshiaki, 1972, 1976.
- Phillips**, Lawrence. See **Barrow**, Kevin D., 1405.
- Phinney**, Bernard O. See **Bearder**, John R., 721.
- Phipps**, John R. See **Jones**, Gurnos, 458.
- Pickering**, Michael W. See **Iddon**, Brian, 1686.
- Piggin**, Christine M. See **Ord**, Malcolm R., 687.
- Pinhey**, John T. See **Chambers**, Virginia E. M., 1359.
- Pinto**, Julio A. M. da Cunha. See **Mellor**, John M., 1009.
- Pletcher**, Derek, and **Smith**, Carmen Z. Remote anodic oxidation of carboxylic acids in fluorosulphuric acid: a synthesis of lactones and unsaturated cyclic ketones, 948.
- Pletcher**, Derek. See also **Myall**, Christopher, J., 953.
- Pochini**, Andrea. See **Casnati**, Giuseppe, 1527.
- Polesik**, Keith. See **Allen**, David W., 619.
- Ponticelli**, Fabio. See **Adembri**, Giorgio, 2190.
- Pooranamoorthy**, Ratnam. See **Carruthers**, William, 76.
- Popli**, Satya P. See **Shoeb**, Aboo, 1245.
- Poulos**, Constantine P. See **Flowers**, William T., 286.
- Povall**, T. Jeffery. See **Entwistle**, Ian D., 1300, and **Johnstone**, Robert A. W., 1297, 1424.
- Powell**, Graham P., **Totty**, Richard N., and **Hudec**, John. Correlation of circular dichroism and conformation in $\gamma\delta$ - and $\delta\epsilon$ -unsaturated ketones, 1015.
- Pregnell**, John H. See **Jones**, Sir Ewart R. H., 1552.
- Pratt**, R. Nigel, **Stokes**, David P., and **Taylor**, Giles A. Ketenes. Part XIII. Reactions of dimethylketene with some *N*-alkyl nitrones, 498.
- Price**, Colin. See **Cooper**, Robin D. G., 2195.
- Proctor**, G. R. See **Sinclair**, I. W., 2485.
- Proctor**, George R. See **Lennon**, Mary, 622, and **McDonald**, Brian G., 1446.
- Pueppke**, Steven G., and **VanEtten**, Hans D. Identification of three new pterocarpanes (6a,11a-dihydro-6*H*-benzofuro[3,2-*c*][1]benzopyrans) from *Pisum sativum* infected with *Fusarium solani* f. sp. *pisi*, 946.
- Punja**, Nazim. See **Brown**, Christopher, C., 1525.
- Q**
- Quillinan**, Augustus J., and **Scheinmann**, Feodor. Extractives from Guttiferae. Part XXIX. Synthesis of celebixanthone methyl ether and related 1,5,6,7-tetraoxygenated xanthenes, 241.
- Quinney**, John C. See **Barton**, Derek, H. R., 1610.
- Rabinsohn**, Yechiel. See **Glatter**, Erwin, 2104.
- Radatus**, Bruno K., and **Fraser-Reid**, Bert. Cyclopropylcarbinyl-oxocarbenium ions. Part VII. Orientational effects, 1872.
- Rae**, Duncan R. Reaction of diazocyclopropane with steroidal 16-bromo-17-ketones, 2460.
- Rafia**, Fathi Kamel. See **Khan**, Mazhar Ali, 693.
- Rahman**, Wasiur. See **Okigawa**, Masayoshi, 1563.
- Raie**, M. Y. See **Hamilton**, R. J., 354.
- Raj**, Kanwal. See **Shoeb**, Aboo, 1245.
- Rajagopalan**, Maruthiandan S., See **Kirk**, David N., 1860.
- Rajagopalan**, Tuticorin G. See **Govindachari**, Tuticorin, R., 2134.
- Rajappa**, Srinivasachari, and **Advani**, Bhagwan G. 4-Acetyl-3-benzylidenepiperazine-2,5-diones, 349.
- Rajaraman**, Krishnamurthy, **Batta**, Ashok Kumar, and **Rangaswami**, Srinivasa. Structures of three new steroidal sapogenins from *Dioscorea prazevi*, 1560.
- Ramachandran**, Kalpathi S. See **Govindachari**, Tuticorin R., 2134.
- Ramachandran**, Samyiyah. See **Gunasekera**, Sarath P., 2447.
- Ramaiah**, Muthyala. See **Dennis**, Nicholas, 1506.
- Ramasseul**, Rene. See **Forrester**, Alexander N., 1753.
- Ramdas**, K. See **Cullen**, William P., 1671.
- Ramli**, Mohamed. See **Greenhill**, John V., 588.
- Rana**, Nicola Michael, **Sargent**, Melvyn V., and **Elix**, John A. Structure of the lichen depsidone variolaric acid, 1992.
- Rance**, Michael J. See **Challand**, S. Richard, 26, and **Gait**, Stephanie F., 556.
- Randall**, Edward W. See **Bonnett**, Raymond, 2261.
- Rangaswami**, Srinivasa. See **Batta**, Ashok Kumar, 451, and **Rajaraman**, Krishnamurthy, 1560.
- Rao**, Chintalacheruvu, V. N. See **Chatterjee**, Bishnu P., 985.
- Rao**, G. S. Krishna. See **Mane**, Ramachandra B., 1235.
- Rao**, Poruri S. See **Kirby**, Gordon W., 645.
- Rapi**, Gianfranco, **Ginanneschi**, Mauro, and **Chelli**, Mario. Synthesis of 17 β -(2-amino-oxazol-4-yl)-steroids, 1999.
- Rashid**, Zafar. See **Bailey**, A. Sydney, 420.
- Redpath**, James. See **Hewett**, Colin L., 336, 1288.
- Reece**, Phillip A. See **Armarego**, Wilfred L. F., 1470.
- Rees**, Charles W. See **Adger**, Brian M., 31, 41, 45, **Challand**, S. Richard, 26, **Gait**, Stephanie, F., 19, 556, and **Gilchrist**, Thomas L., 1, 8, 12, 1747, 1964, 1969.
- Reese**, Colin B., and **Shaw**, Andrew. Preparation of medium-sized ring *trans*-cycloalkene derivatives from halogenocyclopropane intermediates by silver perchlorate-promoted solvolysis, 2422.
- Reese**, Colin B., **Stewart**, J. Charles M., **Boom**, Jacques H. van, **de Leeuw**, Harry P. M., **Nagel**, Joek, and **de Rooy**, Jan F. M. The synthesis of oligoribonucleotides. Part XI. Preparation of ribonucleoside 2'-acetal 3'-esters by selective deacylation, 934.
- Reid**, David H., and **Webster**, Robert G. Studies of heterocyclic compounds. Part XVII. Synthesis of 1,6-dioxa-6a-thia- and 1,6-dioxa-6a-selena-pentalenes. Part XVIII. Protonation of 1,6-dioxa-6a-thia- and 1,6-dioxa-6a-selena-pentalenes: formation of 1,2-oxathiolium and 1,2-oxaselenolium cations, 775, 2097.
- Restivo**, Roderic. See **Ferguson**, George, 491.
- Ribeiro**, Odartey. See **Ames**, Donald E., 1390.

- Rickards**, Rodney W. See **Golding**, Bernard T., 1961.
- Ridley**, Damon D. See **Barton**, Derek H. R., 2069.
- Riege**, Leif A. See **Undheim**, Kjell, 1493.
- Rindone** Bruno, and **Scolastico**, Carlo. Oxidation of some trinuclear aromatic compounds with cerium(IV) ammonium nitrate, 1398.
Oxidation of aromatic anils with lead tetra-acetate, 2022.
- Rius**, Carlos. See **Crabbé**, Pierre, 1342.
- Rizvi**, S. Q. Abbas. See **Katritzky**, Alan R., 2489.
- Roberts**, Stanley M. See **Grudzinski**, Zdzislaw, 1767.
- Robinson**, Mick. See **Boar**, Robin B., 1237, 1242.
- Roblin**, John. See **Crombie**, Leslie, 1090, 1099.
- Rodway**, Ronald E. See **Cookson**, Ronald F., 1850, 1854.
- Rollins**, Anthony J. See **Brimacombe**, John S., 1292.
- Roos**, Gregory H. P. See **Cragg**, Gordon M. L., 1339.
- Rosenblatt**, David H. See **Smith**, John R. Lindsay, 510.
- Ross**, Frederick Patrick. See **Cornforth**, John Warcup, 429.
- Ross-Petersen**, Karl J. See **Bachi**, Mario D., 2525.
- Roux**, David G. See **Ferreira**, Daneel, 1437.
- Rowe**, Keith. See **Pelter**, Andrew, 129, 138.
- Rowell**, Frederick J. See **Nunn**, Arthur J., 629, 2435.
- Rowley**, Alan G. See **Cadogan**, J. I. G., 1069, 1072.
- Rubinstein**, Ian, **Sieskind**, Odette, and **Albrecht**, Pierre. Rearranged sterenes in a shale: occurrence and simulated formation, 1833.
- Russell**, Stephen W. See **McAndrew**, Bruce A., 1172.
- Ruvedo**, Edmundo A. See **Battersby**, Alan R., 1140.
- Ruzo**, L. Octavio. See **Bunce**, Nigel J., 1607.
- Ryang**, Hong-Son, **Sakurai**, Hiroshi. Photodecomposition of acetoins, 1590.
- Ryder**, Melvin L. See **Blackburn**, G. Michael, 370.
- Ryles**, Alan P. See **Johns**, Nicholas, 383.
- S
- Sadd**, John S. See **Smith**, John R. Lindsay, 510, 1181.
- Sadler**, Patricia A. See **Cadogan**, J. I. G., 2392.
- Safe**, Stephen. See **Bunce**, Nigel J., 1607.
- Sainsbury**, Malcolm, **Webb**, Brian, and **Schinazi**, Raymond. An improved synthesis of 6*H*-pyrido[4,3-*b*]carbazole derivatives, 289
- Sakaino**, Yoshiko, **Kakisawa**, Hiroshi, and **Kusumi**, Take-nori. Structure of the chromotropic dimers produced from 2-arylphenanthro[9, 10-*d*]imidazoles, 2361.
- Sakuma**, Yoshiharu. See **Yoneda**, Fumio, 1907.
- Sakurai**, Akio, and **Midorikawa**, Hiroshi. Cyclization of ethyl acetoacetate and substituted salicylaldehydes in the presence of ammonium acetate, 2025.
- Sakurai**, Hiroshi. See **Mizuno**, Kazuhiko, 2221, and **Ryang**, Hong-Son, 1590.
- Saleh**, Sadiq A. See **Blatchly**, John M., 309, and **McOmie**, John F. W., 314.
- Salerno**, Guiseppa. See **Casnati**, Giuseppe, 1527.
- Salisbury**, Kingsley. See **Hastings**, John S., 1995.
- Sam**, Teng W., and **Sutherland**, James K. Medium-ring 1,5-dienes. Part IV. Reactions of germacra-1(10),-4,7(11)-triene with singlet oxygen and with the triphenyl phosphite-ozone adduct, 2336.
- Sam**, Teng W. See also **Brown**, Edward D., 2326, 2332.
- Sammes**, Peter G., and **Wallace**, Timothy W. Substituted naphthalenes and naphthols from benzynes and dienolate anions, 1377.
Photochemical reactions. Part V. Photoinduced cyclizations of 3-arylchromones, 1845.
- Santos**, Elvira. See **Crabbé**, Pierre, 1342.
- Sargent**, Melvyn V., **Vogel**, Paul, and **Elix**, John A. Structure of the lichen depsidone gangaleoidin, 1986.
- Sargent**, Melvyn V. See also **Jackman**, David A., 1979, and **Rana**, Nicola Michael, 1992.
- Sasaki**, Satoshi. See **Kaneko**, Chikara, 1104.
- Savage**, David S. See **Hewett**, Colin L., 336, 1288.
- Schalke**, Peter M. and **Hall**, C. Dennis. Reactions of cytosine and cytidine with *O*-substituted hydroxylamines, 2417.
- Schatzmler**, Shimon. See **Loewenthal**, H. J. Eli, 2149.
- Scheinmann**, Feodor. See **Quillinan**, Augustus J., 241.
- Schinazi**, Raymond. See **Sainsbury**, Malcolm, 289.
- Schmidt**, Charles L., and **Townsend**, Leroy B. Bicyclic nucleosides related to pyrimidine nucleosides. Part III. 3-(β-D-Ribofuranosyl)isoguanine, 1257
- Schneider**, David F. See **Labuschagne**, A. Johan H., 2129.
- Schofield**, Kenneth. See **Ferguson**, Ian J., 275.
- Schram**, Karl H., and **Townsend**, Leroy B. Pyrrolopyrimidine nucleosides. Part XI. Influence of amino-groups at C-4 and C-6 or an amino-group at C-6 on the reactivity of a 5-cyano-group in pyrrolo[2,3-*d*]pyrimidine nucleosides, 1253.
- Schram**, Karl H. See also **Hinshaw**, Barbara C., 1248.
- Schwartz**, Gerald P. See **Katsoyannis**, Panayotis G., 464.
- Scolastico**, Carlo. See **Rindone**, Bruno, 1398, 2022.
- Searle**, John B. See **McOmie**, John F. W., 314.
- Selliah**, Sathidevan. See **Gunasekera**, Sarath P., 1539, 2447.
- Senda**, Shigeo, **Hirota**, Kosaku, and **Takahashi**, Mikio. Pyrimidine derivatives and related compounds. Part XXVI. Oxidative and non-oxidative photocyclisations of 5- and 6-phenylthio- and anilino-1,3-dimethyluracils to benzothienopyrimidines and pyrimido-indoles, 503.
- Seo**, Shujiro. See **Shimaoka**, Ariyoshi, 2043.
- Sethi**, Prabh D. See **Glotter**, Erwin, 1370.
- Severini-Ricca**, Giuliana. See **Casagrande**, Cesare, 1652, 1659.
- Shah**, Jayant N. See **Abdallah**, Mohamed A., 888.
- Shaik**, Sason. See **Albeck**, Michael, 1223.
- Shannon**, Patrick V. R. See **Birch**, Anthony J., 2492, **Cocker**, Wesley, 332, and **Collins**, Edward, 96.
- Sharma**, Girijesh K. See **Bywood**, Roy, 2019.
- Sharp**, John T., **Findlay**, Robert H., and **Thorogood**, Peter B. Steric effects in the reactions of αβ-unsaturated ketone *p*-tolylsulphonylhydrazones: a route to 1,2-benzodiazepines via 1,7-ring closure of 1,1-diaryl-3-diazoalkenes, 102.
- Sharp**, John T. See also **Baigrie**, Brian D., 1060, 1065, and **Cadogan**, J. I. G., 1072.
- Shaw**, Andrew. See **Reese**, Colin B., 2422.
- Shaw**, Philip M. See **Kirk**, David N., 2284.
- Sheldrick**, Bernard. See **Aldridge**, David C., 943.
- Shelton**, Geoffrey. See **Johnson**, Alan W., 2076.
- Shimaoka**, Ariyoshi, **Seo**, Shujiro, and **Minato**, Hitoshi. Saponins isolated from *Bupleurum falcatum* L.; components of saikosaponin b, 2043.
- Shipchandler**, Mohammed T., **Peters**, C. Allan, and **Hurd**, Charles D., Syntheses of gallic acid and pyrogallol, 1400.
- Shoeb**, Aboo, **Raj Kanwal**, **Kapil**, Randvir S., and **Popli**, Satya P. Alangiside, the monoterpenoid alkaloidal glycoside from *Alangium lamarckii* Thw., 1245.
- Shoppee**, Charles W., and **Cooke**, Burgess J. A. Electro-cyclic reactions. Part VIII. Some reactions of *trans*-

- trans*- and *cis,trans*-2-bromo-1,5-diphenylpenta-1,4-dien-3-one (α -bromodibenzylideneacetone), 2210.
- Shoppee**, Charles W., and **Lundberg**, Robert D. Steroids and Walden inversion. Part LXX. Re-examination of the substitution reactions of 5 α -cholestan-6 α -ol, 2205.
Steroids. Part XXXVIII. 5-Chloro-5 α -cholestane, 2208.
- Shoppee**, Charles W., and **Henderson**, George N. Electrocyclic reactions. Part VI. Thermal reactions of 1,5-diphenylpentadienide ion and the anions derived from *cis*- and *trans*-3,4-diphenylcyclopentene, 765.
- Shoppee**, Charles W., and **Wang**, Yueh-sha. Electrocyclic reactions. Part VII. Irradiation of 3,5-dibromo-2,6-dimethylhepta-2,5-dien-4-one ($\alpha\alpha'$ -dibromophorone), 1595.
- Shreeve**, Jean'ne M. See **Zack**, Neil R., 614.
- Shutler**, Stephen W. See **Barker**, John M., 2483.
- Siddle**, Veronica A. See **Coombs**, Maurice M., 265.
- Sieskind**, Odette. See **Rubinstein**, Ian, 1833.
- Simmonds**, Derek J. See **Crombie**, Leslie, 1500.
- Simmonds**, Robin G. See **Clark**, Bernard A. J., 1803.
- Simpson**, Peter, and **Zwierzak**, Andrzej. Mechanism of the reaction between trialkyl phosphates and dialkyl phosphorochloridates: nucleophilic sites in phosphorus(v) esters, 201.
- Simpson**, Roy. See **Ames**, Donald E., 2035.
- Simpson**, Thomas J. See **Chexal**, Kuldip K., 543, 549, and **Durley**, Richard C., 163.
- Sinclair**, I. W., and **Proctor**, G. R. Conversion of a catechol into a but-2-enolide, 2485.
- Sinclair**, Ian W. See **Lennon**, Mary, 622.
- Singh**, Harkishan, and **Malhotra**, Ravinder K. Steroids and related studies. Part XXXIII. Some steroidal tetrazoles, 1404.
- Siverns**, Michael. See **Evans**, Roger, 1514, and **Hanson**, James R., 1110, 1956.
- Škarić**, Vinko, **Djuras**, Blanka, and **Turjak-Zebić**, Vera. Synthesis and properties of the stereoisomeric diethyl 6-aminocyclohexane-1,3-dicarboxylates, 1959.
- Sledzinski**, Bohdan. See **Cadogan**, J. I. G., 1072.
- Sleigh**, Thomas. See **Hewett**, Colin L., 336.
- Smith**, Brian W. See **Turner**, Mervyn J., 52.
- Smith**, Christopher. See **Hussain**, S. A. M. Tayyeb, 1480.
- Smith**, Clive W. See **Brimacombe**, John S., 682.
- Smith**, Carmen Z. See **Pletcher**, Derek, 948.
- Smith**, Donald C. L. See **Lacy**, Philip H., 419.
- Smith**, David J. H., and **Trippett**, Stuart. Reaction of trifluoroacetic acid with chlorodiphenylphosphine, 963.
- Smith**, Derek S. H., and **Turner**, Alan B. Marine steroids. Part II. A synthesis of 3 β -6 α -dihydroxy-5 α -pregn-9(11)-en-20-one, 1751.
- Smith**, Gerald A., **Smith**, Kenneth A., and **Williams**, Dudley H. Structural studies on the antibiotic vancomycin: evidence for the presence of modified phenylglycine and β -hydroxytyrosine units, 2108.
- Smith**, J. Anthony. See **Coe**, Paul L., 654.
- Smith**, James G., **Talvitie**, J. Richard, and **Eix**, Allan R. E. Chemical transformation of the dimeric dianion of 1,1-diphenylethylene, 1474.
- Smith**, John R. Lindsay, **Norman**, Richard O. C., and **Stillings**, Michael R. Synthesis of oxazolines from epoxides, 1200.
- Smith**, John R. Lindsay, and **Sadd**, John S. Isomerism of 1- and 2-(*NN*-disubstituted aminomethyl)benzotriazoles: an investigation by nuclear magnetic resonance spectroscopy, 1181.
- Smith**, John R. Lindsay, **Sadd**, John S., **Rosenblatt**, David H., and **Davis**, George T. Use of debenzoylation of quaternary benzylammonium salts in the synthesis of α -deuteriated tertiary amines, 510.
- Smith**, Keith. See **Hastings**, John S., 1545, and **Pelter**, Andrew, 129, 138, 142, 145.
- Smith**, Kenneth A. See **Smith**, Gerald A., 2108.
- Smith**, Kevin M. See **Barnett**, Graham H., 1401.
- Smith**, Peter. See **Coe**, Paul L., 781.
- Snowden**, Roger L. See **Chadwick**, Derek J., 523.
- Solan**, Vishnu. See **Blackburn**, G. Michael, 370.
- Sondengam**, B. Lucas. See **Ekong**, Donald E. U., 2118.
- Southgate**, Robert. See **Battersby**, Alan R., 1147, and **Brain**, Edward G., 562.
- Spenser**, Ian D. See **Hill**, Robert E., 1622.
- Spies**, Hendrik S. C. See **Labuschagne**, A. Johan H., 2129.
- Spurlock**, Langley A. See **Staas**, William H., 1675.
- Spyropoulos**, Caroline G. See **Grundon**, Michael F., 302.
- Srivastava**, Krishna C. See **Chambers**, Richard D., 396, 1130.
- Staas**, William H., and **Spurlock**, Langley A. Chemistry of ultrasound. Part IV. Effects of ultrasound on some amino-acids, 1675.
- Starratt**, Alvin N. See **Barton**, Derek H. R., 2243.
- Staunton**, James. See **Battersby**, Alan R., 1140, 1147, 1156, 1162.
- Stec**, Wojciech J., and **Okruszek**, Andrzej. Axial preference of a 2-anilino-substituent in 4-methyl-1,3,2-dioxaphosphorinane, 1828.
- Stephenson**, Reginald W. See **Gait**, Stephanie F., 556.
- Stevens**, Malcolm F. G. Reaction of 3-methylindole with a diazonium salt, 1555.
- Stevens**, Malcolm F. G. See also **Brown**, Thomas B., 1023, 2357, and **Butchart**, Graham A. M., 956.
- Stewart**, George W. See **Birch**, Anthony J., 2492.
- Stewart**, J. Charles M. See **Reese**, Colin B., 934.
- Stewart**, John Charles Marshall. See **Bonnett**, Raymond, 224.
- Stick**, Robert V. See **Barton**, Derek H. R., 1773, and **Boar**, Robin B., 1237.
- Stillings**, Michael R. See **Smith**, John R. Lindsay, 1200.
- Stipanovic**, Robert D. See **Dodson**, Stuart A., 410.
- Stoddart**, J. Fraser. See **Burden**, Ian J., 666, 675, and **Hussain**, S. A. M. Tayyeb, 1480.
- Stokes**, David P. See **Pratt**, R. Nigel, 498.
- Stoodley**, Richard J., and **Watson**, Nigel S. Studies related to penicillins. Part XVI. Preparation of methyl 2-((1*S*,5*R*)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]-hept-2-en-6-yl)-3-methylbut-2-enoate, 883.
- Stoodley**, Richard J., and **Wilkins**, Robert B. Studies related to dihydro-1,4-thiazines. Part VII. Reaction of methyl (4*S*,6*S*)-5,5,9,9-tetramethyl-7-oxo-8-oxa-4-thia-1-azabicyclo[4.3.0]non-2-ene-3-carboxylate 4-oxide with acetyl chloride, 716.
- Stoodley**, Richard J. See also **Corbett**, David F., 432.
- Storr**, Richard C. See **Adger**, Brian M., 31, 41, 45, **Challand**, S. Richard, 26, and **Gait**, Stephanie F., 19, 556.
- Stubbs**, J. K. See **Abbott**, Patrick J., 2322.
- Subramanian**, S. Sankara. See **Glotter**, Erwin, 1370.
- Suda**, Tatsuo. See **Kaneko**, Chikara, 1104.
- Sugimoto**, Akiko. See **Kaneko**, Chikara, 1104.
- Sugiyama**, Noboru. See **Aoyama**, Hiromu, 298.

- Sultanbawa**, M. Uvais S. See **Gunasekera**, Sarath P., 1539, 2215, 2447, and **Pavanasasivam**, Gowsala, 612.
- Sumida**, Yoshio. See **Tamura**, Yasumitsu, 406, 575.
- Suschitzky**, Hans, **Wakefield**, Basil J., and **Whittaker**, Roger A. Synthesis of quinoxalinones by the reaction of *o*-phenylenediamines with dimethyl acetylenedicarboxylate, 401.
- Synthesis of heterocyclic compounds. Part XXX. Reactions of *o*-alkylamino- and *o*-dialkylamino-anilines with some $\alpha\beta$ -unsaturated carbonyl compounds, 2409.
- Suschitzky**, Hans. See also **Iddon**, Brian, 1686, **Mathur**, Suchet S., 2474, 2479, and **Niewiadomski**, Krzysztof, 1679.
- Susuki**, Yoshio. See **Kametani**, Tetsuji, 932.
- Suszko**, Jerzy. See **Ignasiak**, Teresa, 2122.
- Sutherland**, Ian O. See **Gordon**, James J., 819.
- Sutherland**, James K. See **Bajorek**, Jan J. S., 1559, **Brown**, Edward D., 2326, 2332, and **Sam**, Teng W., 2336.
- Sutton**, Donald A. See **Drewes**, Siegfried E., 1283.
- Sutton**, John R. See **Baggaley**, Alan J., 1055, and **Brettle**, Roger, 1947, 1955.
- Suwinski**, Jerzy W. See **Katritzky**, Alan R., 2489.
- Suzuki**, Michiko. See **Kaneko**, Chikara, 1104.
- Suzuki**, Toshio. See **Kametani**, Tetsuji, 413, 2102.
- Swain**, Michael L. See **Hull**, Roy, 922, 2271.
- Swaminathan**, S. See **Venkataramani**, P. S., 730.
- Swire**, Susan J. See **Cadogan**, J. I. G., 2392.
- Szabó**, Ladislás. See **Trigalo**, François, 593, 598, 600, 604.
- Szabó**, Patricia. See **Chiron**, Annie, 603.
- Szewczyk**, Mark. See **Hart**, Robert J., 2227.

T

- Tait**, Brian S. See **Cadogan**, J. I. G., 2376, 2386, 2392, 2396.
- Takagi**, Katsuhiko. See **Ogata**, Yoshiro, 1725.
- Takahashi**, Keiichi. See **Kametani**, Tetsuji, 1012.
- Takahashi**, Kimio. See **Kametani**, Tetsuji, 413.
- Takahashi**, Mikio. See **Senda**, Shigeo, 503.
- Takahashi**, Nobutaka. See **Yamaguchi**, Isomaro, 992, 996.
- Takahashi**, Tamiko. See **Kametani**, Tetsuji, 737.
- Takaishi**, Naotake, **Inamoto**, Yoshiaki, and **Aigami**, Koji. Synthesis and acid-catalysed rearrangement of (1*R*,2*R*,5*S*,6*S*)-tricyclo[4.3.1.1^{2,5}]undecane, 789.
- Takasugi**, Hisashi. See **Ninomiya**, Ichiya, 1720, 1791.
- Takaya**, Takao. See **Abramovitch**, Rudolph A., 1806.
- Takayanagi**, Hiroaki. See **Ogura**, Haruo, 2316.
- Takeda**, Hiromitsu. See **Kanetani**, Tetsuji, 1825.
- Takeda**, Ken'ichi, and **Horibe**, Isao. Cope rearrangement of some germacrane-type furan sesquiterpenes. Part V. Preparation and thermal rearrangement of some *cis*-*trans*-germacranolides, 870.
- Takeda**, Ken'ichi. See also **Hikino**, Hiroshi, 478.
- Takemoto**, Tsunematsu. See **Hikino**, Hiroshi, 478.
- Takemura**, Makoto. See **Kametani**, Tetsuji, 1012.
- Takeshima**, Tatsuo, **Fukada**, Naoaki, **Okabe**, Eiichi, **Mineshima**, Fukashi, and **Muraoka**, Motomu. Some reactions of 2-oxocyclopentanedithiocarboxylic acid and 3-methyl-5-oxo-1-phenyl- Δ^2 -pyrazoline-4-dithiocarboxylic acid, 1277.
- Takeshita**, Mitsuhiro. See **Kametani**, Tetsuji, 1012.
- Takeshita**, Toru. See **Morisaki**, Masuo, 1421.
- Talvitie**, J. Richard. See **Smith**, James G., 1474.
- Tamura**, Yasumitsu, **Sumida**, Yoshio, **Haruki**, Shin-ichiro, and **Ikeda**, Masazumi. Synthesis of indolizines by intramolecular cyclisation of pyridinium allylides [1-(1-pyridinio)prop-2-enides], 575.
- Tamura**, Yasumitsu, **Sumida**, Yoshio, **Miki**, Yasuyoshi, and **Ikeda**, Masazumi. Effects of 3-substituents upon orientation in the 1,3-dipolar cycloaddition reaction between 3-substituted pyridine *N*-imides and ethyl propiolate: syntheses of ethyl 4- and 6-substituted pyrazolo[1,5-*a*]pyridine-3-carboxylates 406.
- Tan**, S. F., and **Tjia**, T. H. Synthesis of 3,7-dimethyl-1,9-dioxo-1*H*,9*H*,10*H*-pyrano[3-*2-c*:5,6-*c'*]dipyrano-10-ylacetic acid and its ethyl ester, 2405.
- Tanaka**, Yoshiro. See **Kametani**, Tetsuji, 932.
- Tani**, Yoshiki. See **Hill**, Robert E., 1622.
- Tarassoff**, Peter G. See **Mihai Gheorghe** G. 1374.
- Tatlow**, J. Colin. See **Coe**, Paul L., 781 and **Owen**, David M., 1380.
- Taylor**, David S. See **Iddon**, Brian, 1686.
- Taylor**, Giles A. Keten. Part XIV. Adducts of diphenylketen with aza-arenes, 1001
- Taylor**, Giles A. See also **Pratt**, R. Nigel, 498.
- Taylor**, Robert. See **Hewett**, Colin L., 336.
- Tedeschi**, Piero. See **Adembri**, Gorgio, 2190.
- Thaller**, Viktor. See **Jones**, Sir Ewart, R. H., 424, and **Ord**, Malcolm R., 687.
- Thomas**, Colin. See **Gilchrist**, Thomas L., 8, 12.
- Thomas**, C. Barry. See **Clark**, Ferrers R. S., 121, 1230, **Davies**, Beryl, 65, and **Lethridge**, Andrew, 231, 2465.
- Thomas**, Peter W. See **Cambie**, Richard C., 323.
- Thompson**, Norris J. See **Akhtar**, M. Naseem, 2506.
- Thomson**, Ronald H. See **Ferreira**, Margarida A., 1113, and **Forrester**, Alexander R., 1115, 2340, 2348.
- Thorogood**, Peter B. See **Sharp**, John T., 102.
- Thorpe**, John E. See **Anderson**, Nicholas, H., 825, 852, and **Devlin**, John P., 830, 846, 848.
- Ting**, Patrick L. See **Brady**, William T., 456.
- Tippling**, Anthony E. See **Armstrong**, Stuart E., 538, 1411, 1902, **Davis**, Victor J., 1263, **Fleming**, George L., 1633, **Freear**, John, 1074, and **Haszeldine**, Robert N., 966, 2015.
- Tissington**, Peter. See **Birchall**, J. Michael, 1638.
- Tjia**, T. H. See **Tan**, S. F., 2405.
- Tkach**, Richard W. See **Davies**, D. Huw, 814.
- Tofeeq**, Mikdad. See **Afzal**, Mohammad, 1334.
- Toft**, Malcolm P. See **Berg**, Sidney S., 1040.
- Tokura**, Niichiro. See **Kitagawa**, Nobuhisa, 2369.
- Tolliday**, Patricia. See **Brain**, Edward G., 562.
- Tomassini**, Therezinha. See **Greenhill**, John V., 588.
- Tori**, Kazuo. See **Hikino**, Hiroshi, 478.
- Torre**, Alberto. See **Brown**, Edward D., 2326.
- Torri**, Masako. See **Yokoyana**, Masataka, 160.
- Totty**, Richard N. See **Powell**, Graham P., 1015.
- Toube**, Trevor P. See **Khan**, Naeema, 1457.
- Townsend**, Leroy B. See **Hinshaw**, Barbara C., 1248, **May**, Jesse A. jun., 125, **Schmidt**, Charles L., 1257, and **Schram**, Karl H., 1253.
- Tozawa**, Machiko. See **Kamano**, Yoshiaki, 1972, 1976.
- Traitler**, Helmut. See **Lonsky**, Werner, 169.
- Trigalo**, François, **Jachymczyk**, Witold, **Young**, John C., and **Szabó**, Ladislás. Phosphorylated sugars. Part XV. Syntheses of 3-deoxy-D-erythro- and 3-deoxy-D-threo-hexulosonic acid 6-(dihydrogen phosphates), 593.
- Trigalo**, François, **Level**, Michel, and **Szabó**, Ladislás. Phosphorylated sugars. Part XVII. Synthesis of 3-deoxy-D-arabino-[1-¹⁴C]heptulosonic acid 7-(dihydrogen phosphate), 600.

- Trigalo**, François, and **Szabó**, Ladislav. Phosphorylated sugars. Part XVI. Synthesis of 3-deoxy-D-glycero-hex-3-en-2-ulo-furanos(2,5)onic acid 6-(dihydrogen phosphate), Part XIX. Synthesis of 3-deoxy-D-glycero-pent-2-ulosonic acid 5-(dihydrogen phosphate), 598, 604.
- Tringham**, Gwenda T. See **Jones**, Geraint, 1280.
- Trippett**, Stuart, and **Whittle**, Peter J. Apicophilicity of the benzoyl group in five-co-ordinate phosphoranes, 1220.
- Trippett**, Stuart. See **Smith**, David J. H., 963.
- Trivedi**, Girish K. See **Kamat**, Vinayak S., 204.
- Troke**, Jeffrey A. See **Halsall**, Thomas G., 1758.
- Tucker**, Howard. See **Hastings**, John S., 1545.
- Tucker**, Leslie C. N. See **Brimacombe**, John S., 979.
- Tuddenham**, Robert M. See **Adams**, David R., 1741.
- Turjak-Zebić**, Vera. See **Skarić**, Vinko, 1959.
- Turnbull**, James K. See **McCrimble**, Robert, 1202.
- Turner**, Alan B. See **Buchan**, Gavin M., 2115, 2257, and **Smith**, Derek S. H., 1751.
- Turner**, John L. See **Jones**, Sir Ewart R. H., 424.
- Turner**, Mervyn J., **Smith**, Brian W., and **Haslam**, Edwin. The shikimate pathway. Part IV. The stereochemistry of the 3-dehydroquininate dehydratase reaction and observations on 3-dehydroquininate synthetase, 52.
- Turner**, W. Brian. See **Aldridge**, David C., 943, **Burrows**, Brian F., 999, and **Durley**, Richard C., 163.

U

- Ueda**, Miyoko. See **Ninomiya**, Ichiya, 762.
- Ueyama**, Masako. See **Hikino**, Hiroshi, 478.
- Ujiie**, Akira. See **Kametani**, Tetsuji, 1822.
- Umani-Ronchi**, Achille. See **Cainelli**, Gian Franco, 1273.
- Undheim**, Kjell, and **Baklien**, Sigurd. Pyrylium salts. Part V. 5,6,12,13-Tetrahydro-5,13:6,12-bisepithiodi-benzo[a,f]cyclodecene-7,14-diones by dimerisation of 2-benzothiopyrylium-4-olate, 1366.
- Undheim**, Kjell, and **Riege**, Leif A. Adduct formation between pyridine-2-thiones and acetylenic carbonyl derivatives, 1493.
- Undheim**, Kjell. See also **Baklien**, Sigurd, 2099, and **Hansen**, Per Egil, 305.
- Ungaro**, Rocco. See **Casnati**, Giuseppe, 1527.
- Urasaki**, Iwao, and **Ogata**, Yoshiro. Iodination of dibenzoylmethanes with iodine-peracetic acid, 1285.
- Urbani**, Raymond. See **Hickmott**, Peter W., 1885.
- Utley**, James H. P. See **Avaca**, L. Alberto, 971.

V

- Vanek**, Zdenko. See **Golding**, Bernard T., 1961.
- VanEtten**, Hans D. See **Pueppke**, Steven G., 946.
- Vaughan**, Kenneth D. See **Anderson**, Stephen, 1232.
- Veal**, Christopher J., and **Young**, Douglas W. Determination of the stereochemistry of the product of rearrangement of penicillin G with methyl chloroformate by total synthesis, 2086.
- Venkatarami**, P. S., **Chandrasekaran**, S., and **Swaminathan**, S. Photochemical transformations of the [4 + 2] dimeric adduct of 2-benzoylnorborna-2,5-diene and its derivatives, 730.
- Vernon**, John M. See **Ahmed**, Munir, 71, 2048.
- Vickery**, Graham G. See **Beckwith**, Athelstan L. J., 1818.
- Vines**, S. Martin. See **Gibson**, Martin S., 155.

- Vogel**, Paul. See **Sargent**, Melvyn V., 1986.
- Volstedt**, François du R. See **Ferreira**, Daneel, 1437.
- Vose**, Colin W. See **Coombs**, Maurice M., 265.
- Vyas**, Dolatrai M., and **Hay**, George W. Studies on the synthesis of novel carbohydrates with sulphur in the ring. Part II. Analogues of derivatives of unsaturated deoxyulopyranosidonic acids *via* Diels-Alder reactions with methyl cyanodithioformate, 180.

W

- Waigh**, Roger D. See **Gray**, Alexander I., 488.
- Wakefield**, Basil J. See **Suschitzky**, Hans, 401, 2409.
- Wakselman**, Claude. See **Cornforth**, John Warcup, 429.
- Walker**, Brian J. See **Lwowski**, Walter, 1309.
- Walker**, Derek. See **Adamson**, J. Robert, 2030, and **Bywood**, Roy, 2019.
- Walker**, Edward R. H. See **Burrows**, Brian F., 999.
- Wallace**, Timothy W. See **Sammes**, Peter G., 1377, 1845.
- Walthew**, John M. See **Gibson**, Martin S., 155.
- Wälti**, Manfred, and **Hope**, Derek B. Synthesis of [1-(L- and [1-(D-2-hydroxy-3-mercaptopropanoic acid)-8-lysine]-vasopressin, 1691.
- Wang**, Yueh-Sha. See **Shoppee**, Charles W., 1595.
- Ward**, A. David. See **Anderson**, Nicholas H., 825.
- Ward**, David. See **Johnson**, Alan W., 2076.
- Ward**, Richard J. See **Ames**, Donald E., 534.
- Ward**, Robert S. See **McCarney**, Colin C., 1600.
- Wardleworth**, Michael. See **Cooper**, Michael John, 1433.
- Warren**, Peter J. See **Broughton**, Barbara J., 842, 857, and **Devlin**, John P., 830.
- Waterman**, Peter G. See **Gray**, Alexander I., 488.
- Watson**, Keith C. See **Barton**, Derek H. R., 1134.
- Watson**, Kathleen M. See **Fraser**, John K., 2280.
- Watson**, Nigel S. See **Stoodley**, Richard J., 883.
- Watson**, William P. See **Alcock**, Nathaniel W., 386.
- Watt**, C. Ian F. See **Henry**, Rodney S., 803.
- Watts**, Richard O'B. See **Haszeldine**, Robert N., 966.
- Watts**, William E. See **Abram**, Trevor S., 113, 116.
- Weatherston**, I. See **Hamilton**, R. J., 354.
- Webb**, Brian. See **Sainsbury**, Malcolm, 289.
- Webster**, Robert G. See **Reid**, David H., 775, 2097.
- Weedon**, Basil C. L. See **Coman**, Ruth E., 2529, **Cooper**, Robin D. G., 2195, **Garwood**, Robert F., 2471, and **Khan**, Naema, 1457.
- Whitham**, Gordon H. See **Bridges**, Alexander J., 1603, 2264, **Cookson**, Clive M., 806, and **Hayward**, Rodney C., 2267.
- Whiting**, Donald A. See **Campbell**, Rodwill V. M., 897, and **Crombie**, Leslie, 913, 1497.
- Whittaker**, Roger A. See **Suschitzky**, Hans, 401, 2409.
- Whittle**, Peter J. See **Trippett**, Stuart, 1220.
- Wibberley**, D. George. See **Brodrick**, Andrew, 1910.
- Widdowson**, David A. See **Barton**, Derek H. R., 88, 579, 1134, 1568, 2069.
- Wilkins**, Alistair L. See **Bell**, Alan M., 1364, 2040, **Chambers**, Virginia E. M., 55, 1359, **Corbett**, R. Edwards, 710, **Evans**, John M., 1356, and **Jones**, Sir Ewart R. H., 1552, 2308.
- Wilkins**, Robert B. See **Stoodley**, Richard J., 716.
- Wilkinson**, John R. See **Crabb**, Trevor A., 58, 1465.
- Williams**, Dudley H. See **Smith**, Gerald A., 2108.
- Williams**, David J. See **Pelter**, Andrew, 145.

- Williams, D. Lyn H.** Isomer ratios from the bromination of allyl chloride in water, methanol, acetic acid, and trifluoroacetic acid, 2238.
- Williams, Hugh J., and Harlow, Richard L.** Lewis acid-catalysed cyclisations of 1-anthryl styryl ketone; benz[*de*]anthracen-3-one, 1537.
- Williams, J. Michael.** See **Llewellyn, Jeffrey W.**, 1428.
- Williams, Michael T.** See **Adger, Brian M.**, 31.
- Willoughby, Bryan G.** See **Banks, Ronald E.**, 2451.
- Wilson, David A.** See **Leyshon, Wynford M.**, 1920, 1925, 1929.
- Wilson, Edward M.** See **Adamson, J. Robert**, 2030.
- Wilson, Malcolm A.** See **Khattak, Ismail**, 916.
- Wilson, Norman H.** See **Cadogan, J. I. G.**, 1072.
- Wiltshire, Hugh R.** See **Battersby, Alan R.**, 1147, 1156, 1162.
- Wong, John L.** See **Zady, Mona F.**, 2036.
- Woo, Soo-On.** See **Forrester, Alexander R.**, 2340, 2348.
- Wood, Ronald J.** See **Broughton, Barbara J.**, 842, and **Devlin, John P.**, 830.
- Woods, Robin A.** See **Barton, Derek H. R.**, 88.
- Woodward, David R.** See **Barlow, Michael G.**, 2010.
- Woodward, Kevin N.** See **Hickmott, Peter W.**, 1885.
- Wooldridge, Kenneth R. H.** See **Broughton, Barbara J.**, 842, 857, and **Devlin, John P.**, 830.
- Woollard, John.** See **Acheson, R. Morrin**, 438, 446, 740, 744.
- Wright, Derek E.** See **Broughton, Barbara J.**, 842, 857, **Devlin, John P.**, 830, 848, and **Gordon, James J.**, 819.
- Wright, Malcolm.** See **Behan, John M.**, 1216.
- Wyatt, Michael.** See **Coe, Paul L.**, 781.
- Yamamura, Kimiaki.** Novel synthesis of β -substituted β -diphenylmethylstyrenes from β -substituted β -methylstyrenes in the presence of palladium(II) acetate, 988.
- Yamanaka, Tohru.** See **Kametani, Tetsuji**, 932.
- Yamane, Hisakazu.** See **Yamaguchi, Isomaro**, 996.
- Yamasaki, Kazuyuki, Yonezawa, Tejiro, and Ohashi, Mamoru.** Photoaddition of the charge-transfer complexes of 7,7,8,8-tetracyanoquinodimethane-toluene systems, 93.
- Yamasaki, Kazuyuki.** See also **Yoshino, Akira**, 735.
- Yehaskel, Albert S.** See **Cooper, David J.**, 785.
- Yokoyama, Masataka.** $\alpha\alpha'$ -Dicyano-(1,3-dithiacyclobutane-2,4-diyldene)diacetamides (desaurins) from thiazine derivatives, 1417.
- Yokoyama, Masataka, Kondo, Takeshi, Miyase, Nobuko, and Torri, Masako.** Reaction of phenyl-lithium and bromobenzene with carbon disulphide, 160.
- Yoneda, Fumio, Matsumoto, Shigeru, Sakuma, Yoshiharu, and Fukazawa, Shinobu.** A new synthesis of alloxazines by the reaction of diethyl azodiformate with 6-anilinouracils, 1907.
- Yonezawa, Tejiro.** See **Yamasaki, Kazuyuki**, 93, and **Yoshino, Akira**, 735.
- Yoshino, Akira, Yamasaki, Kazuyuki, Yonezawa, Tejiro, and Ohashi, Mamoru.** Photo-substitution of 1,2,4,5-tetracyanobenzene by toluene, 735.
- Young, Douglas W.** See **Barraclough, Paul**, 2354, and **Veal, Christopher J.**, 2086.
- Young, Geoffrey T.** See **Macrae, Robert**, 1185.
- Young, John C.** See **Trigalo, François**, 593.
- Young, Kenneth.** See **Chexal, Kuldip K.**, 543.
- Youssefyeh, Raymond D.** Reaction of 6-amino-1,3-dimethyl-5-nitrosouracil with thiols, 1857.
- Yüceer, Levant.** See **Bonner, Trevor G.**, 1323.

Y

- Yagoub, A. K., and Iskander, George M.** 4,8,8-Tribromobicyclo[5.1.0]oct-4-en-3-ones from dibromocarbene-adducts of cyclohexa-1,4-dienols, 1043.
- Yamada, Sachiko.** See **Kaneko, Chikara**, 1104.
- Yamaguchi, Isomaro, Miyamoto, Masaharu, Yamane, Hisakazu, Murofushi, Noboru, Takahashi, Nobutaka, and Fujita, Kenichi.** Elucidation of the structure of gibberellin A₄₀ from *Gibberella fujikuroi*, 996.
- Yamaguchi, Isomaro, Takahashi, Nobutaka, and Fujita, Kenichi.** Application of ¹³C nuclear magnetic resonance to the study of gibberellins, 992.
- Yamaguchi, Yukio.** See **Ishibe, Nobuyuki**, 318.

Z

- Zack, Neil R., and Shreeve, Jean'ne M.** Reactions of chlorotrifluoromethylsulphane, 614.
- Zady, Mona F., Bruscati, Frank N., and Wong, John L.** Structural criteria for hydrazone photochromism in solution, 2036.
- Zahman, Asif.** See **Dean, Francis M.**, 1335.
- Zammitt, Leslie J.** See **Cross, Brian E.**, 1936.
- Zingaro, Ralph A.** See **Baimbridge, Charles L.**, 1395.
- Zwierzak, Andrzej.** See **Simpson, Peter**, 201.