

INDEX OF AUTHORS, 1976

A

- Abdul-Hai**, Syed Mohammed. See **Takeuchi**, Hiroshi, 1201.
- Abraham**, Raymond J., and **Loftus**, Philip. Rotational isomerism. Part XX. Relative conformational stabilities of some chlorofluoropropanes, 1142.
- Adcock**, William. See **Doddrell**, David, 402.
- Aida**, Tetsuo, **Furukawa**, Naomichi and **Oae**, Shigeru. Pyrolysis of *S*-alkyl-*S*-phenyl-*N-p*-tolylsulphonylsulphimides with no β -hydrogen atoms, 1432.
Mechanism of the reaction of *N*-arylsulphonylsulphimides with trivalent phosphorus compounds, 1438.
- Akhtar**, M. Nasseem, **Rooney**, John J., and **Jackson**, W. Roy. Reactions over metal catalysts. Part I. The stereochemistry of hydrogenolysis of 3-acetoxynortricyclene. Part II. Hydrogenolysis of 3,3-dimethylnortricyclene and nortricyclene-3-spirocyclopropane, 595, 1412.
- Akutagawa**, Ken'ichi. See **Ogata**, Yoshiro, 1021.
- Albery**, W. John, **Conway**, Christopher W., and **Hall**, John A. Kinetic isotope effects and aliphatic diazo-compounds. Part VII. The decomposition of diazomalonate ions, 473.
- Alberti**, Angelo. See **Pedulli**, Gian Franco, 137, 173, 946.
- Alcais**, Pierre, and **Brouillard**, Raymond. New data on keto-enol equilibria of 3-alkylpentane-2,4-diones in aqueous solution, 257.
- Alexander**, Robert S., and **Butler**, Anthony R. Electrophilic substitution in pyrroles. Part I. Reaction with 4-dimethylaminobenzaldehyde (Ehrlich's reagent) in acid solution, 696.
- Allen**, David W., **Buckland**, David J., and **Nowell**, Ian W. Tautomerism of diazidopyrimidines. Molecular structure of 2,4-diazido-5-iodopyrimidine, 1610.
- Aloisi**, Gian Gaetano, and **Favaro**, Gianna. Photo-rearrangement of quinoline 1-oxides: relevance of ground and excited state basicity and effect of heavy atom quenchers, 456.
- Al-Showiman**, Salim. See **Jennings**, W. Brian, 1501.
- Al-Tai**, Adil S., **Hall**, D. Muriel, and **Mears**, Andrew R. Nuclear magnetic resonance spectra of azomethines. Part I. Benzylideneanilines, 133.
- Alunni**, Sergio, and **Baclocchi**, Enrico. *trans* : *cis* Olefin ratios in the elimination reactions of 1-benzylethyl halides and toluene-*p*-sulphonate in different base-solvent systems, 877.
- Alunni**, Sergio, **Clementi**, Sergio, and **Klemm**, LeRoy H. Reactivity of thieno[2,3-*b*]pyridine towards electrophilic substitution, 1135.
- Alwis**, Kuruwitagae, W. See **Homer**, Roger B., 781.
- Abraham**, Michael H., and **Grellier**, Priscilla L. Substitution at saturated carbon. Part XX. The effect of 39 solvents on the free energy of Et₃N, EtI, and the Et₃N-EtI transition state. Comparison with solvent effects on the equilibria Et₃N + EtI \rightleftharpoons Et₄N⁺I⁻ and Et₃N + EtI \rightleftharpoons Et₄N⁺ + I⁻, 1735.
- Anderson**, J. Edgar, **Doecke**, Christopher W., and **Pearson**, Harry. Conformational equilibria and barriers to rotation in monohalogenobutanes with methyl substituents. Methyl-halogen interactions. The size of a halogen atom, 336.
- Andreotti**, Giovanni Dario. See **Colonna**, Martino, 309, 317.
- Ansell**, Gerald B. Crystal structure of a 1:1 complex between silver iodide and morpholine, 104.
- Anthony**, Martin E., **Carson**, A. Selwood, and **Laye**, Peter G. Enthalpy of formation of phenyl formate and related bond dissociation energies, 1032.
- Aroney**, Manuel J., **Cleaver**, Georgina (Mrs.), **Pierens**, Raymond K., and **Le Fevre**, Raymond J. W. Molecular polarisability. The conformations of some substituted pentafluorobenzenes, 1854.
- Arriau**, Jean, **Darbelos**, Alain, **Epszajn**, Jan, **Katritzky**, Alan R., **Lunt**, Edward, **Mitchell**, James W., **Rizvi**, S. Q. Abbas, and **Roch**, Gilberto. *N*-Oxides and related compounds. Part XLVI. Chemical and physical properties of pyridine 1-nitroimides and comparison with quantum chemical predictions, 1245.
- Astin**, K. Brian, and **Whiting**, Mark C. Allylic carbonium ions. Part I. Acetolysis of 1,1- and 3,3-dimethylallyl 2,4-dinitrophenyl ether. Part II. Solvolysis and cyclisation of some monoterpene 2,4-dinitrophenyl ethers, 1157, 1160.
- Atmaran**, Shiravante. See **Bhatt**, M. Vivekananda, 1228.
- Aurangzeb**, Mohammad. See **Doddrell**, David, 402.
- Awad**, William I., **Nashed**, Shawky, **Hassan**, Saad S. M., and **Zakhary**, Rashed F. Application of a Hammett-Taft relation to kinetics of Strecker degradation of α -amino acids with phenalene-1,2,3-trione hydrate, 128.
- Ayediran**, Dapo, **Bamkole**, Titus O., and **Hirst**, Jack. The kinetics of the reactions of piperidine, *n*-butylamine, morpholine, and benzylamine with 1-fluoro- and 1-chloro-2,4-dinitrobenzenes in acetonitrile, 1396.
- Azzolina**, Ornella. See **Tacconi**, Gianfranco, 150.

B

- Baca**, Ernest J. See **Lewis**, Edwin A., 125.
- Bacaloglu**, I., **Bacaloglu**, R., **Glatt**, H., **Viragh**, C., and **Ostrogovich**, G. Structure and reactivity of hetero-substituted nitriles. Part XIV. Kinetics and mechanisms of cyanogen bromide reactions with *N*-alkylanilines, 524.
- Bacaloglu**, R. See **Bacaloglu**, I., 524.
- Baclocchi**, Enrico, **Clementi**, Sergio, and **Sebastiani**, Giovanni V. Role of addition compounds in the halogenation of benzofurans and benzothiophens, 266.
- Baclocchi**, Enrico. See also **Alunni**, Sergio, 877, **Mentasti**, Eduard, 1841.
- Badger**, Rodney J., and **Barlin**, Gordon B. Kinetics of

- reactions in heterocycles. Part XV. Reactions of 2-, 6-, or 8-methylthio-1-, 3-, -7-, or -9-methylpurines and related compounds with methoxide ions in methanol, 1176.
- Bailey**, Fowtrey C. See **Gibson**, Harry W., 196, 1575.
- Bailey**, Ray J., **Chuder**, John A., and **Foster**, Roy. Bi- and ter-molecular electron donor-acceptor complex formation between hexamethylbenzene and 1,3,5-trinitrobenzene, and also between *NNN'*-tetramethyl-*p*-phenylenediamine and 1,3,5-trinitrobenzene in solution, 1590.
- Baker**, Raymond, and **Cook**, Alan H. Reactions of allene with amines and active methylene compounds; adduct formation in the presence of nickel complexes, 443.
- Reactions of allene and aldehydes; adduct formation in the presence of nickel complexes, 447.
- Baldry**, Peter J., **Forrester**, Alexander R., and **Thomson**, Ronald H. Nitroxide radicals. Part XVIII. Further spectroscopic investigation of the Banfield and Kenyon nitroxide, 76.
- Baliah**, Vuppalapatty. See **Bhatt**, M. Vivekananda, 1228.
- Bamkole**, Titus O. See **Ayediran**, Dapo, 1396.
- Bandoli**, Giuliano, and **Clemente**, Dore A. Crystal, molecular, and electronic structure of an antianxiety agent: 7-chloro-5-(2-chlorophenyl)-1,3-dihydro-3-hydroxy-1,4-benzodiazepin-2-one, 413.
- Banks**, R. M. (Mrs.), and **Maskill**, H. Solvolysis of *endo*- and *exo*-bicyclo[3.2.1]octan-3-yl toluene-*p*-sulphonates. Part I. Product analysis, 1506.
- Barfield**, Michael. See **Doddrell**, David, 402.
- Barlin**, Gordon B. See **Badger**, Rodney J., 1176.
- Barroeta**, N. See **Martin**, G., 1421.
- Batchelor**, John G. Conformational analysis of cyclic amines using carbon-13 chemical shift measurements: dependence of conformation upon ionisation state and solvent, 1585.
- Bartoli**, Giuseppe, **Di Nunno**, Leonardo, **Florio**, Saverio, **Fiorentino**, Michele, and **Todesco**, Paolo E. Reductive dehalogenation of 2-iodobenzothiazole with alkanethiols, 1371.
- Begtrup**, Mikael. ¹³C-H Coupling constants as a tool in tautomerism studies of 1,2,3-triazole, 1,2,4-triazole, and tetrazole, 736.
- Bell**, Elizabeth A., **Cadogan**, J. I. G., **Milburn**, Peter W., **Murray**, Charles D., **Paton**, R. Michael, and **Sharp**, John T. Acylarylnitrosamines. Part X. An electron spin resonance spectroscopic investigation of the reactions of aryl radicals with tetraphenylcyclopentadienone and 2,3-diarylindenones: detection of 1-oxo-2,2,3-triphenylindenyl and related radicals and their relevance to diene-promoted formation of benzyne from benzene-diazonium acetate, 588.
- Bell**, Ronald P., and **Earls**, Derek W. Intramolecular catalysis in the detritiation of 2',6'-dihydroxyacetophenone and 2'-hydroxyacetophenone, 45.
- Bell**, Ronald P., **Earls**, Derek W., and **Henshall**, John B. Inter- and intra-molecular catalysis in the enolization of derivatives of 2'-carboxyacetophenone, 39.
- Bell**, Ronald P., and **Grainger**, Stephen. Brønsted exponents in the proton abstraction from derivatives of ethyl α -benzylacetoacetate, 3-benzylpentane-2,4-dione, and benzylmalononitrile, 1367.
- Kinetics and isotope effects in proton transfers from 3-bromo- and 3-nitro-(+)-camphor, 1606.
- Bell**, Ronald P., and **Sørensen**, Poul E. Kinetics of the addition of hydroxide ions to substituted benzaldehydes, 1594.
- Bellatti**, Marta, **Caronna**, Tullio, **Citterio**, Attilio, and **Minisci**, Francesco. Nucleophilic character of acyl radicals. Absolute rate constant for the acylation of protonated benzothiazole by pivaloyl radical, 1835.
- Bellobono**, Ignazio R., **Dal Pozzo**, Alma, and **Cataldi**, Mario T. Kinetics of base-catalysed condensation of 5-methylfuran-2(3*H*)-one with 2-hydroxybenzaldehyde, 1773.
- Bellucci**, Giuseppe, **Berti**, Giancarlo, **Colapietro**, Marcello, **Spagna**, Riccardo, and **Zambonelli**, Luigi. Crystal and molecular structure of *cis*-2,*trans*-3-dibromo-*cis*-4-*t*-butylcyclohexyl *p*-nitrobenzoate: a case of non-chair conformation of a saturated monocyclic cyclohexane derivative, 1213.
- Beltrame**, Paolo, **Gelli**, Gianna, and **Loi**, Aldo. Cleavage of carbon-oxygen single bonds in the reaction of aryl ethyl acetals with ethylmagnesium bromide in diethyl ether. A kinetic study, 1001.
- Beltrame**, Pier Luigi. See **Galliani**, Guido, 1803.
- Bentley**, Peter, and **McKellar**, John F. The photochemistry of benz[*de*]anthracen-7-ones. Part III. Fluorescence quantum yield and continuous photolysis studies, 1850.
- Bergesen**, Knut, **Carden**, Brian M., and **Cook**, Michael J. Ring distortions in 2-methyl-2-*t*-butyl derivatives of 1,3-dioxan, 1,3-oxathian, and 1,3-dithian, 345.
- Bernstein**, Joel, and **Izak**, Ilana. Molecular conformation and electronic structure. Part III. Crystal and molecular structure of the stable form of *N*-(*p*-chlorobenzylidene)-*p*-chloroaniline, 429.
- Berry**, David, **Bukka**, Krishna, and **Satchell**, Rosemary S. Quantitative aspects of Lewis acidity. Part XV. Basicity of substituted pyridines and quinolines towards metal halides in diethyl ether, 89.
- Bethell**, Donald, **Brinkman**, Max R., **Hayes**, John, and **McDonald**, Kenneth. Intermediates in the decomposition of aliphatic diazo-compounds. Part XII. Chemically induced dynamic polarisation of fluorine-19 and proton nuclei in the insertion of diarylmethylenes into benzyl fluoride, 966.
- Bethell**, Donald, **Fairclough**, Colin S., **Talbot**, Robert J. E., and **Wilkinson**, Rodney G. Mechanistic studies in strongly basic media. Part IX. Patterns of reactivity of sodium salts of 9-substituted fluorenes with molecular oxygen and with acrylic esters, 55.
- Berti**, Giancarlo. See **Bellucci**, Giuseppe, 1213.
- Bertran**, Juan. See **Silla**, Estanislao, 1789.
- Bhatt**, M. Vivekananda, **Atmaram**, Shiravante, and **Baliah**, Vuppalapatty. Stereochemistry. Part III. Conformation of eight-membered heterocyclic rings. Conformation of *NN*-diphenyl-3,7-diaza-1,5-dithiacyclo-octane in dioxan solution, 1228.
- Bianchi**, Giorgio, and **Maggi**, Domenico. 1,3-Dipolar cycloaddition of mesitonitrile oxide to *cis*- and *trans*-cyclo-octene. A kinetic investigation, 1030.
- Biggs**, Ian D., and **Williams**, D. Lyn H. Kinetics and mechanism of the Fischer-Hepp rearrangement and denitrosation. Part VII. Reactions at high acidity. Part VIII. Substituent effects on denitrosation of aromatic *N*-nitroso-amines, 601, 691.
- Bigley**, David B., **Brown**, Charles, and **Weatherhead**, Richard H. Carbonate pyrolysis. Part IV. The stereo-

- chemistry of elimination; a ^{13}C nuclear magnetic resonance study, 701.
- Bigley, David B., and Weatherhead, Richard H.** Studies in decarboxylation. Part VIII. The gas-phase pyrolysis of β -acetylenic acids. Part IX. The gas-phase pyrolysis of some acids containing two double bonds, 592, 704.
- Bigotto, Adriano, Galasso, Vinicio, Pappalardo, Giuseppe C., and Scarlata, Giuseppe.** Dipole moment, spectroscopic, and theoretical study of di-2-pyridyl sulphones, 1845.
- Björge, Johannes, Boyd, Derek R., Campbell, Rose M., Thompson, Norris J., and Jennings, W. Brian.** Dynamic stereochemistry of imines and derivatives. Part VII. Thermal epimerization of chiral oxaziridines, 606.
- Blake, Peter G., and Vayjooee, Mohammad Hassan Baghal.** Reactions of keten. Part VI. Kinetics of gas-phase reactions with halogenated and unsaturated acids, formic acid, and acetic [^2H]acid, 1533.
- Blackburn, G. Michael, Lockwood, Geoffrey, and Solan, Vishnu.** Intramolecular fluorescence quenching of anthracene by heterocyclic ligands, 1452.
- Blackburne, Ian D., Katritzky, Alan R., Read, David M., Chivers, Peter J., and Crabb, Trevor A.** The conformational analysis of perhydropyrido[1,2-*c*][1,3]oxazines, perhydropyrido[1,2-*c*][1,3]thiazines, and perhydropyrido[1,2-*c*]pyrimidines, 418.
- Blake, Peter G., and Vayjooee, Mohammad Baghal.** Reactions of keten. Part V. Gas-phase reactions with carboxylic acids. Effect of alkyl substituents, 988.
- Blake, Peter G., Craggs, Alan, and Vayjooee, Mohammad Baghal.** The thermal decomposition of propanoic and 2-methylpropanoic anhydrides in the gas phase, 986.
- Blackwell, Leonard F.** Deuterium kinetic isotope effect in β -elimination from (*p*-acetylphenethyl)dimethylsulphonium bromide. The influence of added dimethyl sulphoxide, 488.
- Bocelli, Gabriele.** See **Colonna, Martino**, 309, 317.
- Bock, Charles W.** See **George, Philip**, 1222.
- Bohor, L.** See **Feit, B. A.**, 253.
- Bolton, Roger, and Sandall, John P. B.** Nucleophilic displacement in polyhalogenoaromatic compounds. Part 1. Kinetics of reaction of polychlorofluorobenzene derivatives. Part 2. Kinetics of halogen displacement from bromopolyfluoroaromatic compounds, 1541, 1545.
- Bombieri, Gabriella, Forsellini, Eleonora, Chiacchio, Ugo, Fiandaca, Pasqualina, Purrello, Giovanni, Foresti, Elisabetta, and Graziani, Rodolfo.** Synthesis and crystal and molecular structure of 1-ethylthio-2-(*p*-nitrophenyl)-2-(triphenylphosphonio)ethenethiolate, 1404.
- Bong Kim.** See **Pittman, Charles U.**, 621.
- Booth, Harold, Griffiths, D. Vaughan, and Jozefowicz, Mary L.** Conformational equilibria in *cis*-*C*-methyl-decahydroquinolines: studies at low temperature using ^{13}C and ^1H magnetic resonance spectroscopy, 751.
- Booth, Harold, and Jozefowicz, Mary L.** The application of low temperature ^{13}C nuclear magnetic resonance spectroscopy to the determination of the *A* values of amino-, methylamino-, and dimethylamino-substituents in cyclohexane, 895.
- Bond, Patricia M., and Moodie, Roy B.** Kinetics of reaction of *p*-nitrophenyl methyl carbonate with nucleophiles in aqueous solution, and the relative ease of acetyl and methoxycarbonyl transfer reactions, 679.
- Bond, Patricia M., Castro, Enrique A., and Moodie, Roy B.** Kinetics of reaction of substituted pyridines and oxygen anions with methyl chloroformate in aqueous solution, 68.
- Bonnier, Jane-Marie.** See **Vidal, Simone**, 497.
- Bosco, Marcella, Forlani, Luciano, Todesco, Paolo E., and Troisi, Luigi.** Relative reactivity of groups bonded to positions 2 and 5 of the thiazole ring, 398.
- Bose, Ajay K.** See **Kartha, Gopinath**, 717.
- Boudreau, James A.** See **Brown, Charles**, 888.
- Boué, Stephane.** See **Rondelez, Daniel**, 647.
- Bowden, Bruce F., Freeman, Hans C., and Jones, Raymond D. G.** Molecular and crystal structure of eupolauramine, a novel type of alkaloid from *Eupomatia laurina*, 658.
- Bowen, Richard D., and Williams, Dudley H.** The concept of a hierarchy of unimolecular reactions in a homologous series. Prediction of the unimolecular chemistry of some saturated carbenium ions, 1479.
- Bowers, P. R., McLauchlan, K. A., and Sealy, R. C.** Photodecarboxylation of carboxylic acids sensitized by triplet benzophenone and duroquinone. A flash photolysis electron spin resonance and chemically induced dynamic nuclear polarization nuclear magnetic resonance investigation, 915.
- Bowie, John H., and Janposri, Sompong.** Electron impact studies. Part CIV. Cyclisation reactions of negative ions. The *o*- $\text{O}_2\text{NC}_6\text{H}_4(\text{CH}=\text{CH})_n$ COR system, 1656.
- Box, Harold C., and Budzinski, Edwin E.** Electron spin resonance detection of radicals $\text{R}\dot{\text{S}}$, $\text{R}\dot{\text{O}}$, and $\text{R}^1\text{-S-R}^{2+}$ in irradiated solids, 553.
- Boyd, Derek R.** See **Björge, Johannes**, 606. See **Jennings, W. Brian**, 610, 1501.
- Brauer, David J., Krüger, Carl, and Roberts, Paul J.** Crystal and molecular structures of methyl 2 α ,3 α ,4 α ,5 α -diepoxy-*cis*(1 α H,2 α H)-bicyclo[4.1.0]heptane-7 α -carboxylate and methyl 2,5-dihydroxybicyclo[4.1.0]heptane-7-carboxylate, 532.
- Brett, Alistair M.** See **George, Philip**, 1222.
- Brinkman, Max R.** See **Bethell, Donald**, 966.
- Brouillard, R.** See **Alcais, P.**, 257.
- Brown, Charles, Boudreau, James A., Hewitson, Barry, and Hudson, Robert F.** Alkaline hydrolysis of aryl phosphoramidates and their cyclic analogues, 888.
- Brown, Charles.** See also **Bigley, David B.**, 701.
- Brown, David R., Leviston, Philip G., McKenna, James, McKenna, Jean M., Melia, Raymond A., Pratt, John C., and Hutley, Barrie G.** Effect of 4-*t*-butyl and other 4-substituents on rate constants for reactions of 1,1-disubstituted cyclohexanes and piperidines. 4-*t*-Butyl derivatives as valid reactivity models in the kinetic method of conformational analysis of cyclohexanes, 838.
- Brown, Norman M. D., Cowley, David J., and Murphy, William J.** The photo-oxidation of aliphatic alcohols as monolayers on aqueous solutions of 1,1'-dimethyl-4,4'-bipyridylium (paraquat) dichloride, 1769.
- Brownlee, Robert T. C., Butt, Græme, Chan, Mun P., and Topsom, Ronald D.** The nature of substituent electronic effects: the existence of the π -inductive effect, 1486.
- Brunton, George, Gilbert, Bruce C., and Mawby, Roger J.** The use of spin traps to characterize sulphur- and phosphorus-containing radicals from *OO*-dialkyl hydrogen phosphorodithioates, zinc bis-(*OO*-di-isopropyl phosphorodithioate), and related compounds, 650. An e.s.r. investigation of radical reactions of some sulphur-containing phenolic antioxidants, 1267.
- Brunton, George, and Ingold, Keith U.** Revised assignment of the electron spin resonance spectrum obtained during photolysis of *N*-(diphenylmethylene)methyl-

- thiomethylamine *N*-oxide. The bis(methylthiomethyl) nitroxide radical, 1659.
- Bryan**, Robert F., and **Fallon**, Lawrence, tert. Crystal structure of syringaresinol, 341.
- Buckland**, David J. See **Allen**, David W., 1610.
- Budzinski**, Edwin E. See **Box**, Harold C., 553.
- Bukka**, Krishna, and **Satchell**, Rosemary S. Quantitative aspects of Lewis acidity. Part XVI. Acidity of covalent metal halides towards substituted anilines in dioxan. The validity of ΔH^0 as a measure of Lewis acid strength, 1058.
- Bukka**, Krishna. See also **Berry**, David, 89.
- Burden**, Alan G., **Collier**, Geoffrey, and **Shorter**, John. Influence of aprotic solvents on the O–D stretching band of methan[²H]ol, 1627.
- Burdon**, James, **Davies**, D. W., and **Del Conde**, Guillermo. *Ab initio* Gaussian calculations on the CH₃ and CH₂F cations, 1193.
- Burdon**, James, **Hotchkiss**, Jacqueline C., and **Jennings**, W. Brian. Dynamic nuclear magnetic resonance investigation of phosphonamidothioic and phosphonamidous chlorides, 1052.
- Burger**, Ulrich. See **Halton**, Brian, 258.
- Burnett**, Raymond D., and **Kirk**, David N. Kinetics of reduction of acetophenones by alkali-metal alkoxides, and the mechanism of reduction of ketones by borohydride, 1523.
- Bursey**, Maurice M. See **Pitt**, Colin G., 429.
- Bushby**, Richard J., and **Ferber**, Gerald J., Organic anions. Part 1. Equilibration of 1,3-diarylpropenes. Part 2. Spectroscopic studies of 1,3-diarylpropenide ions. Part 3. Charge control *versus* product stability control in the protonation of 1,3-diarylpropenide ions, 1683, 1688, 1695.
- Butler**, Anthony R. Steroid–acid colour reactions. Part I. Carbon-13 nuclear magnetic resonance spectra of various protonated aliphatic ketones and their pK_{BH^+} values, 959.
- Butler**, Anthony R., and **Jones**, Howard A. Steroid–acid colour reactions. Part II. Carbon-13 nuclear magnetic resonance and ultraviolet spectra of protonated androst-4-ene-3,17-dione, pregn-4-ene-3,20-dione, and androst-4-ene-3,11,17-trione, 963.
- Butler**, Anthony R., and **Leitch**, Elizabeth. Mechanistic studies in the chemistry of urea. Part I. Reaction with pentane-2,4-dione (acetylacetone), 832.
- Butler**, Anthony R. See also **Alexander**, Robert S., 696.
- Butt**, Græme. See **Brownlee**, R. T. C., 1486.
- Buttafava**, A. See **Faucitano**, A., 1014, 1017.
- Byrn**, J. Sydney, **Jackson**, Paul F., and **Morgan**, Keith J. The carbonyl group frequency. Part VI. Alkyl carbonates, 1800.
- conformational analysis of perhydropyrido[1,2-*c*][1,3]-oxazepines, 1312.
- Calderbank**, Kingsley E., and **Pierens**, Raymond K. Polarisation and polarisability study of some chlorinated cyclodiene insecticides, 1645.
- Calo**, Vincenzo, **Lopez**, Luigi, and **Pesce**, Giovanni. A regio- and stereo-selective free radical bromination of steroidal $\alpha\beta$ -unsaturated ketones, 247.
- Calvaruso**, Giuseppe, **Cavasino**, F. Paolo, and **Di Dio**, Emanuele. Kinetics of the hydrochloric acid-catalysed hydrolysis of benzoic anhydrides in various dioxan–water mixtures, 993.
- Cameron**, G. Gordon, and **Milton**, Alan J. S. Kinetics and mechanism of a one-step alternative to the Grignard reaction, 378.
- Cameron**, T. Stanley, **Cummings**, Robert J., and **Knipe**, Anthony C. Sulphone structures. Part III. Crystal and molecular structure of 5,5'-dichloro-2-hydroxy-2'-(phenylsulphonyl)azoxybenzene, 802.
- Campbell**, Rose M. See **Bjørge**, Johannes, 606, **Jennings**, W. Brian, 1501.
- Canadell**, Enric. See **Silla**, Estanislao, 1789.
- Cannon**, Jack R., **White**, Allan H., and **Willis**, Anthony C. Crystal structure of acetamidinium chloride, 271.
- Carden**, Brian M. See **Bergesen**, Knut, 345.
- Caronna**, Tullio. See **Bellatti**, Marta, 1835.
- Carson**, A. Selwood. See **Anthoney**, Martin E., 1032.
- Cashell**, Patrick A. See **Hegarty**, Anthony F., 242.
- Castro**, Enrique A. See **Bond**, Patricia A., 68.
- Cataldi**, Mario T. See **Bellobono**, Ignazio, 1773.
- Caughlin**, Charles N. See **Mazhar-ul-Haque**, 1101.
- Cavasino**, F. Paolo. See **Calvaruso**, Giuseppe, 993.
- Cerfontain**, Hans, and **Schaasberg-Nienhuis**, (Mrs.) Zwaantje R. H. Aromatic sulphonation. Part 53. Kinetics and mechanism of sulphonation of ω -phenylalkane-1-sulphonic acids in sulphuric acid. Comparison of the side-chain SO₃H and OSO₃H substituent effects, 1780.
- Cerfontain**, Hans. See also **Funke**, Carel W., 669, 826, 1083, 1902, and **Koeberg-Telder**, Ankie, 1776.
- Cerioni**, Giovanni. See **Lunazzi**, Lodovico, 1796.
- Cesca**, S. See **Faucitano**, A., 1017.
- Chachaty**, Claude, **Pappalardo**, Giuseppe C., and **Scarлата**, Giuseppe. Molecular conformation of di-2-pyridyl sulphide. A dipole moment, ¹H nuclear magnetic resonance, and CNDO/2 study, 1234.
- Chadwick**, Derek J. Dependence of the furan-2-carbaldehyde conformational equilibrium on solvent dielectric constant: direct evidence from pulsed (Fourier transform) nuclear magnetic resonance, 451.
- Chadwick**, Derek J., **Chambers**, John, **Macrae**, Robert, **Meakins**, G. Denis, and **Snowden**, Roger L. Infrared examination of rotational isomerisation in alkyl furan-2-carboxylates: determination of thermodynamic parameters from infrared data, 597.
- Chadwick**, Derek J., **Chambers**, John, **Meakins**, G. Denis, and **Snowden**, Roger L. Investigation of rotational isomerism in thiophen- and furan-2-carbonyl halides by nuclear magnetic resonance and infrared spectroscopy, 1.
- Chambers**, John. See **Chadwick**, Derek J., 1.
- Chan**, Mun P. See **Brownlee**, R. T. C., 1486.
- Chapman**, Norman B., **Newman**, David J., **Shorter**, John, and **Wall**, H. Michael. The separation of polar and steric effects. Part XIII. Kinetics of the reaction of cinnamic acid and *meta*-substituted cinnamic acids with diazo-

C

- Cadogan**, J. I. G., **Murray**, Charles D., and **Sharp**, John T. Acylarylnitrosamines. Part IX. Use of benzyne promoters in the conversion of *N*-nitrosoacetanilide into benzyne, 583.
- Cadogan**, J. I. G. See also **Bell**, Elizabeth A., 588.
- Cahill**, Rosalind, **Crabb**, Trevor A., and **Whiting**, Donald A. Proton magnetic resonance studies on compounds with bridgehead nitrogen. Part XXXI. Reversible dimerisation of perhydropyrido[1,2-*c*][1,3]oxazepines; X-ray analysis of a fourteen-membered macrocyclic dimer;

- diphenylmethane in various alcohols and in aprotic solvents, 847.
- Chatfield**, Dale A. See **Pitt**, Colin G., 434.
- Chiacchio**, Ugo. See **Bombieri**, Gabriella, 1404.
- Chivers**, Peter J. See **Blackburne**, Ian D., 418.
- Chong**, Yuet-han. See **Mak**, Thomas C. W., 1169.
- Chow**, Stanley. See **Fratello**, Anthony, 1205.
- Chudek**, John A. See **Bailey**, Ray J., 1590.
- Chung Chieh**. See **Stokhuyzen**, Rolf, 481.
- Cinquini**, Mauro, **Stefano**, Colonna, **Landini**, Dario, and **Maia**, Angela Maria. Nucleophilic substitution in α -halogeno-sulphoxides. Part II. Dependence of the reaction mechanism on structural factors and on the nature of nucleophile, 996.
- Citterio**, Attilio. See **Bellatti**, Marta, 1835.
- Clark**, Jim, and **Hill**, John. Mass spectra of 1,3-diarylazetid-3-ols and related compounds, 1514.
- Clark**, Jim, **Maynard**, Ruth, and **Wakefield**, Basil J. Polyhalogenoaromatic compounds. Part XXXVI. Mass spectra of octa- and hepta-chloronaphthalenes, 73.
- Clarke**, David, **Gilbert**, Bruce C., and **Hanson**, Peter. Heterocyclic free radicals. Part VI. Substituent effects on the distribution of the spin density in 10-arylphenoxazine and 10-arylphenothiazine cation radicals, 114.
- Cleaver**, Georgina (Mrs.) See **Aroney**, Manuel J., 1854.
- Clemente**, Dore A. See **Bandoli**, Giuliano, 413.
- Clementi**, Sergio. See **Baciocchi**, Enrico, 266, and **Alunni**, Sergio, 1135.
- Coates**, David, and **Gray**, George W. The effect of the terminal trifluoromethyl group on nematic liquid crystal thermal stability, 300.
Properties of the liquid crystals formed by some 4'-substituted 4-(β -*p*-substituted arylethyl)biphenyls, 863.
- Cocker**, David, and **Sinnott**, Michael L. Acetolysis of 2,4-dinitrophenyl glycopyranosides, 618.
- Coghi**, Leandro, **Lanfredi**, Anna Maria Manotti, and **Tiripicchio**, Antonio. Crystal and molecular structure of thiosemicarbazide hydrochloride, 1808.
- Cohen**, Mendel D., and **Cohen**, Roselyne. Topochemistry. Part 38. Photodimerisation in mixed crystals of *trans*-cinnamides and of *trans*-stilbenes, 1731.
- Cohen**, Roselyne. See **Cohen**, Mendel D., 1731.
- Colapietro**, Marcello. See **Bellucci**, Giuseppe, 1213.
- Coleman**, James P., **Holman**, Richard J., and **Utley**, James H. P. Electro-organic reactions. Part VI. Stereoselective cathodic reduction of unhindered cyclic ketones, 879.
- Collier**, Geoffrey. See **Burden**, Alan G., 1627.
- Colombo**, Arturo. Crystal structure and relative configuration of (\pm)-11,12-dihydroglaziovine. Stereochemistry of reduced proaporphines, 1218.
- Colonna**, Francesco Paolo, **Danieli**, Roberto, **Distefano**, Giuseppe, and **Ricci**, Alfredo. The electronic effect of XMe_3 and CH_2XMe_3 ($X = Si, Ge, Sn, \text{ or } Pb$) substituents in organometallic sulphides. A kinetic and photoelectron spectroscopic study, 306.
- Colonna**, Francesco Paolo. See also **Fringuelli**, Francesco, 276.
- Colonna**, Martino, **Greci**, Lucedio, **Marchetti**, Leonardo, **Andreotti**, Giovanni Dario, **Bocelli**, Gabriele, and **Sgarabotto**, Paolo. Acid-catalysed rearrangements in the aryliminoindoline series. Part I. Crystal and molecular structures of 1-ethyl-2-(1-ethyl-2-phenylindol-3-yl)-2-phenyl-3-phenyliminoindoline and 1-ethyl-3-(1-ethyl-2-phenylindol-3-yl)-3-phenyl-2-phenyliminoindoline. Part II. Crystal and molecular structure of 2-anilino-3-(1-methyl-2-phenylindol-3-yl)-3-phenyl-3*H*-indole monohydrate, 309, 317.
- Colonna**, Stefano. See **Cinquini**, Mauro, 996.
- Compton**, David A. C., **George**, William O., and **Maddams**, William F. Conformations of conjugated hydrocarbons. Part I. A spectroscopic and thermodynamic study of buta-1,3-diene and 2-methylbuta-1,3-diene (isoprene), 1666.
- Consiglio**, Giovanni. See **Spinelli**, Domenico, 747, 1495, 1805.
- Conway**, Christopher W. See **Albery**, W. John, 473.
- Cook**, Alan H. See **Baker**, Raymond, 443, 447.
- Cook**, David S., and **Turner**, Michael F. Crystal and molecular structures of silver N^1 -(3-pyridyl)sulphanilamide, 1379.
- Cook**, Michael J., **Katritzky**, Alan R., and **Nadji**, Sourena. Substituent effects in tautomerism. Part II. *para*-Substitution in *N*-phenylamidines, 211.
- Cook**, Michael J. See also **Bergesen**, Knut, 345.
- Cooper**, John W., and **Roberts**, Brian P. Configurational effects in the α -scission of phosphoranyl radicals, 808.
- Court**, Jean. See **Vidal**, Simone, 497.
- Cowley**, David J. See **Brown**, Norman M. D., 1769.
- Cox**, Michael K. See **Heatley**, Frank, 510.
- Cox**, Philip J., **Cradwick**, Peter D., and **Sim**, George A. X-Ray crystallographic determination of the structure of the *p*-bromophenylboronate ester of 17 α ,20 β ,21-trihydroxypregn-4-en-3-one, 110.
- Cox**, Philip J., and **Sim**, George A. Sesquiterpenoids. Part XXII. X-Ray crystallographic determination of the stereochemistry and conformation of deacetylneotenuin, 990.
- Coyle**, John D., and **Kingston**, David H. Electron transfer in the photochemistry of substituted benzoate and naphthoate esters, 1475.
- Crabb**, Trevor A., and **Hall**, M. James. Proton magnetic resonance studies of compounds with bridgehead nitrogen. Part XXIX. Configurational and conformational studies with derivatives of perhydro-oxazolo[4,3-*c*][1,4]thiazine, 203.
- Crabb**, Trevor A. See also **Blackburne**, Ian D., 418, and **Cahill**, Rosalind, 1312.
- Cradwick**, Peter D. Crystal structure of the growth inhibitor, 'maleic hydrazide' (1,2-dihydropyridazine-3,6-dione), 1386.
- Cradwick**, Peter D. See also **Cox**, Philip J., 110.
- Craggs**, Alan. See **Blake**, Peter G., 986.
- Crampton**, Michael R., and **Willison**, Michael J. The stabilities of Meisenheimer complexes. Part XI. The effects of ring-size on spiro-complex formation. Part XII. Some kinetic studies of the reactions of aromatic nitro-compounds with sodium sulphite in water. Part XIII. Kinetic and equilibrium data for spiro-complex formation from 1-(2-mercaptoethylthio)- and 1-(2-hydroxyethylthio)-2,4,6-trinitrobenzene in water, 155, 160, 901.
- Craven**, Bryan M., and **DeTitta**, George T. Cholesteryl myristate: structure of the crystalline solid and mesophases, 814.
- Cser**, Ferenc, and **Sasvári**, Kálmán. Crystal and molecular structure of potassium hydrogen norborn-5-ene-2-endo,3-endo-dicarboxylate sesquihydrate, $C_9H_9KO_4 \cdot 1.5H_2O$, 478.

Cummings, Robert J. See Cameron, T. Stanley, 802.
Curtin, David Y. See Puckett, Sherril A., 1873.

D

- Dale, Brian J., and Jones, Derry W. Proton magnetic resonance spectra of amino-acids and peptides relevant to wool structure. Part IV. Relative residence times of dipeptides and tripeptides of phenylalanine and tyrosine. Part VI. Relative residence times of peptides of histidine, tryptophan, and valine, 91, 1190.
- Dal Pozzo, Alma. See Bellobono, Ignazio R., 1773.
- Danieli, Roberto, Ricci, Alfredo, and Ridd, John H. Inductive and field effects in aromatic substitution. Part VIII. Kinetics of nitration and bromination of the 'onium salts of dithia- and diaza-cyclophanes, 290
- Danieli, Roberto, Lunazzi, Ludovico, and Veracini, C. Alberto. Liquid crystal nuclear magnetic resonance investigation on the structure of a molecule formed by two fused six-membered rings: 2,7-naphthyridine, 19.
- Danieli, Roberto. See also Colonna, Francesco Paolo, 306.
- Darbelos, Alain. See Arriau, Jean, 1245.
- David, Serge. See Ducruix, Arnaud, 1678.
- Davies, Alwyn G., and Muggleton, Brenda. Homolytic abstraction of enolic hydrogen, 502.
- Davies, Alwyn G., Muggleton, Brenda, Godet, Jean-Yves, Pereyre, Michel, and Pommier, Jean-Claude. Direction of ring-opening of ring-substituted cyclopropyl(stannyloxy)methyl and cyclopropyl(hydroxy)methyl radicals: preferential formation of primary alkyl radicals, 1719.
- Davies, Alwyn G., Parrott, Maxwell J., and Roberts, Brian P. Cyclisation of unsaturated phosphoranyl radicals, 1066.
- Davies, Alwyn G., Parrott, Maxwell J., Roberts, Brian P., and Skowronska, Aleksandra. An electron spin resonance study of phosphoranyl radicals derived from tetra-alkyl esters of phosphorous phosphoric anhydride (RO)₂POP(O)(OR)₂, 1154.
- Davies, A. Keith, Navaratnam, Suppiah, and Phillips, Glyn O. Photochemistry of chlorpromazine [2-chloro-*N*-(3-dimethylaminopropyl)phenothiazine] in propan-2-ol solution, 25.
- Davies, David B., and Khaled, Md. Abu. Conformations of peptides in solution by nuclear magnetic resonance spectroscopy. Part II. Homoallylic coupling in cyclic dipeptides. Part III. Cyclic dipeptide ring conformations. Part IV. Conformations of valinomycin determined from homoallylic proton coupling across peptide bonds, 187, 1238, 1327.
- Davies, D. W. See Burdon, James, 1193.
- Davies, J. Eric D., Hodge, Philip, and Khan, Munir N. Laser Raman spectra of some non-conjugated steroid olefins, 841.
- Davies, Roger, and Mbadiwe, Eddie I. Tetra-acetylcaffeoyl-putrescine: an acetyl-cinnamoyl diacylamine. Nuclear magnetic resonance studies of acetyl groups, 616.
- Dawber, J. Graham. See Schnell, Andrew, 633.
- de Boer, Jan L. M. See Funke, Carel W., 1083.
- de la Mare, Peter B. D., Hannan, Brian N. B., and Isaacs, Neil S. The kinetics and mechanisms of aromatic halogen substitution. Part XXXIII. Kinetics and products of chlorination of some aryl acetates, 1389.
- de la Mare, Peter B. D., Isaacs, Neil S., and McGlone, Michael J. The kinetics and mechanisms of aromatic halogen substitution. Part XXXII. The directive power of the acetoxy-group, 784.
- Delay, F. See De Weck, Z. Ardalán, 1867.
- Del Conde, Guillermo. See Burdon, James, 1193.
- De Ranter, Camiel J. See Peeters, Oswald M., 1062.
- De Sarlo, Francesco, and Guarna, Antonio. Behaviour of nitrile oxides towards nucleophiles. Part II. Substituent effect on the rate of dimerisation of aromatic nitrile oxides to 3,6-diaryl-1,4,2,5-dioxadiazines, 626.
- Desimoni, Giovanni. See Tacconi, Gianfranco, 150.
- DeTitta, George T. See Craven, Bryan M., 814.
- Dewar, Michael J. S., Fonken, G. J., Jones, T. B., and Minter, David E. Photoelectron spectra of molecules. Part VII. Cyclopropylallenes, 764.
- Dewar, Michael J. S., and Griffin, Anselm C. Ester linkages in the nematic phase: a thermodynamic study, 710. Terminal groups in the nematic and cholesteric phases: a thermodynamic study, 713.
- Dewar, Michael J. S., and Turchi, Ignatius J. Ground states of molecules. Part XXXII. A MINDO/3 study of mesoionic oxazoles and imidazoles, 548.
- De Weck, Z. Ardalán, Delay, F., Geoffroy, M., Lucken, E. A. C., and Masson, S. Nuclear quadrupole resonance and stereochemistry. Part 6. Transmission of substituent effects through a double bond, 1867.
- Di Dio, Emanuele. See Calvaruso, Giuseppe, 993.
- Di Nunno, Leonardo. See Bartoli, Giuseppe, 1371.
- Distefano, Giuseppe. See Colonna, Francesco Paolo, 306, and Fringuelli, Francesco, 276.
- Dixon, William T., and Murphy, David. The electron spin resonance spectra of alkyl aryl ether radical cations, 1823.
- Dobbs, Anthony J., Gilbert, Bruce C., Laue, Hugh A. H., and Norman, Richard O. C. Electron spin resonance studies. Part II. Radicals derived from oxirans in aqueous solution, 1044.
- Dodd, David, Johnson, Michael D., Meeks, B. Spencer, Titchmarsh, David M., Nguyen Van Duong, K., and Gaudemer, Alain. β -Styrylcobaloximes: mechanism of formation from β -styryl halides and mechanism of cleavage by electrophiles, 1261.
- Doddrell, David, Barfield, Michael, Adcock, William, Aurangzeb, Mohammad, and Jordan, David. ¹³C Nuclear magnetic resonance studies of some fluorinated and trifluoromethylated aromatic compounds. Studies on ¹³C-¹⁹F coupling constants, 402.
- Dodson, Neil K. See Evans, Alwyn G., 859.
- Doecke, Christopher W. See Anderson, J. Edgar, 336.
- Dohi, Masahiro. See Okamoto, Kunio, 1617.
- Dominguez, Xorge A. See Taira, Zenei, 1728.
- Dondoni, Alessandro, Gilli, Gastone, and Sacerdoti, Michele. Stereochemistry of hydroxamic acid derivatives. Crystal and molecular structure of *N*-phenyl-2,6-dichlorobenzamide oxime, 1036.
- Dorrepaal, Wim, and Louw, Robert. Vapour-phase chemistry of arenes. Part 3. Vapour-phase chlorination of benzene derivatives catalysed by ultraviolet light, 1815.
- Douglas, Kenneth T., and Williams, Andrew. Nucleophilic *versus* general base catalysis in phosphyl (P^V) group transfer: application to α -chymotrypsin action, 515.
- Drakenberg, Torbjörn. ¹³C Nuclear magnetic resonance studies on aromatic aldehydes. Torsional barriers and conformational equilibria in pyridinecarbaldehydes, 147.
- Ducruix, Arnaud, Pascard, Claudine, David, Serge, and Fischer, Jean-Claude. Crystal and molecular structure of

a carbohydrate-derived oxetan-3-one. Definitive evidence for a novel participation of a pyranose ring oxygen atom, 1678.

Dyer, Robert L., **Le Grâs**, Paul G., and **Hall**, C. Dennis. Nucleophilic reactivity of organophosphorus compounds. Part 3. Kinetics and mechanism of the reaction of phosphorus acids with keten *OO*-acetals in aprotic medium, 1613.

E

Eaborn, Colin, and **Seconi**, Giancarlo. Aromatic reactivity. Part LXI. Reactivities and solvent isotope effects in the base cleavage of triorgano-silicon, -germanium, and -tin groups from furan, thiophen, benzofuran, and benzothiophen rings, 925.

Eaborn, Colin, **Walton**, David R. M., and **Seconi**, Giancarlo. Evidence for formation of carbanions in cleavage of carbon-silicon bonds by methanolic sodium methoxide. Some large kinetic isotope effects for reactions of carbanions with methanol, 1857.

Earls, Derek W. Detritiation kinetics of acetophenones in highly acidic media, 1641.

Earls, Derek W. See also **Bell**, Ronald P., 39, 45.

El Dusouqui, Osman M. H., **El Nadi**, Abdel Rahman H., **Hassan**, Mustapha, and **Yousif**, Ghariballa. Some observations relating to substituent effects in halogenation. Part VII. The kinetics and reactions of toluene and *o*- and *p*-xylene with chlorine acetate in aqueous acetic acid and acetic acid-perchloric acid, 357.

El Dusouqui, Osman M. H., **Hassan**, Mustapha, **El Nadi**, Abdel Rahman H., and **Yousif**, Ghariballa. Some observations relating to substituent effects in halogenation. Part VIII. The kinetics and reactions of indane, 9,10-dihydroanthracene, and tetralin with chlorine acetate in aqueous acetic acid, 359.

Eley, Daniel D., **Monk**, Derek F., and **Rochester**, Colin H. Reactions of alkyl vinyl ethers catalysed by triethyloxonium hexachloroantimony pentachloride, 1292.

El Nadi, Abdel Rahman H. See **El Dusouqui**, Osman M. H., 357, 359.

El Seoud, Omar A. Hydration of acetaldehyde catalysed by micellar Triton X-100 in carbon tetrachloride, 1497.

Elvidge, John A., **Jaiswal**, Devendra K., **Jones**, John R., and **Thomas**, Robert. Detritiation of diethyl [2-³H]malonate, 353.

Emsley, James W., **Lindon**, John C., and **Street**, Joan M. Conformations of 3,5-dichloroanisole and 3,5-dibromoacetophenone determined from ¹H nuclear magnetic resonance spectra of nematic solutions, 805.

Engberts, Jan B. F. N. See **Tel**, Rense M., 483.

Epszajn, Jan. See **Arriau**, Jean, 1245.

Evans, Alwyn G., **Dodson**, Neil K., and **Rees**, Norman H. Study of bipyridyl radical cations. Part III. Reaction of paraquat radical cation with oxygen and with chromic ions in methanol, 859.

Evans, Alwyn G., **Evans**, Jeffrey C., and **Sheppard**, Deri. Reactions of radical anions. Part XVI. Interpretation of the hyperfine coupling constants of ³¹P nuclei in phosphorus-containing radical anions. Part XVII. The reactions of triphenylphosphine oxide with alkali metals in ethereal solvents, 492, 1166.

Evans, Jeffrey C. See **Evans**, Alwyn G., 492, 1166.

F

Fabi, Marino T., **Marzorati**, Liliana, **Olivato**, Paulo R., **Rittner**, Roberto, **Viertler**, Hans, and **Wladislaw**, Blanka. Comparison between the cyano-group hydrogen bonding abilities, infrared frequencies, and intensities in some α -alkylthio-nitriles, 16.

Fairclough, Colin S. See **Bethell**, Donald, 55.

Fallon, Lawrence, tert. See **Bryan**, Robert F., 341.

Farooqi, Jameel, **Gore**, Peter H., and **Rahim**, Abdur. Additivity of substituent effects in the alkaline hydrolysis of alkyl benzoates, 1921.

Faucitano, A., **Buttafava**, A., and **Martinotti**, F. Faucitano. Electron spin resonance of γ -ray induced radicals in thiourea-adamantane solid solutions, 1014.

Faucitano, A., **Buttafava**, A., **Martinotti**, F. Faucitano, and **Cesca**, S. Electron spin resonance study of radicals in γ -irradiated mono- and poly-cyclic olefins. Part III. Allyl and pentadienyl radicals from dienes and trienes with strained ring structures, 1017.

Favaro, Gianna. Photochemical and photophysical behaviour of benzoylpyridines. Part I. Triplet-triplet energy transfer to biacetyl, 869.

Favaro, Gianna. See also **Aloisi**, Gian Gaetano, 456.

Feit, B. A., **Bohor**, L., and **Rubinraut**, S. Vinyl carbanions. Part I. Kinetics of hydrogen-deuterium exchange in fluoren-9-ylideneacetonitrile catalysed by sodium ethoxide, 253.

Fenn, M. David, and **Lister**, John H. Purine studies. Part XVI. Occurrence of *syn*- and *anti*-isomers in 4-amino-5-formamidopyrimidine derivatives, 29.

Ferber, Gerald J. See **Bushby**, Richard J, 1683, 1688, 1695.

Ferguson, Ian J., **Katritzky**, Alan R., and **Read**, David M. The conformational analysis of saturated heterocycles. Part 72. Tetrahydro-1,3,4-oxadiazines, 1861.

Ferguson, Ian J., **Katritzky**, Alan R., and **Patel**, (Miss) Ranjan. The conformational analysis of saturated heterocycles. Part 76. Ring and nitrogen inversion in *cis*- and *trans*-1,4,5,8-tetramethyldecahydropyrazino[2,3-*b*]pyrazine, 1564.

Fernandez-Alonso, J. I. See **Silla**, Estanislao, 1789.

Ferreira, (the late) Paulo Carvalho, **Kiyan**, Nilo Zengo, **Miyata**, Yukino, and **Miller**, Joseph. Comparison of methanolysis of a series of *p*-benzyloxybenzoyl chlorides with that of benzoyl, *p*-phenoxybenzoyl, and *p*-methoxybenzoyl chlorides, 1648.

Festa, Crescenzo, **Nucci**, Lamberto, **Pietra**, Francesco, **Moresco**, Anna M., **Pardi**, Lucio, and **Santucci**, Sergio. Competition between base addition and electron transfer in unsaturated systems: the case of 3-methoxytropone, 180.

Fiandaca, Pasqualina. See **Bombieri**, Gabriella, 1404.

Fiandanesse, Vito, **Maffeo**, Carmine V., **Naso**, Francesco, and **Ronzini**, Ludovico. Mechanistic study of *syn*- and *anti*-elimination from diastereoisomeric halogenosulphonyl-ethanes, 1303.

Field, John E. See **Wee Lam Ng**, 637.

Fiorentino, Michele. See **Bartoli**, Giuseppe, 1371.

Fischer, Ernst. See **Korenstein**, Rafi, 438.

Fischer, Jean-Claude. See **Ducruix**, Arnaud, 1678.

Fitos, Ilona. See **Simonyi**, Miklos, 1913.

Flamini, Alberto. See **Sorriso**, Salvatore, 374.

Fleming, Ian, and **Long**, William E. Photosensitisation in the photolysis of saturated ketones, 14.

Fleming, Ian, **Kemp-Jones**, Anthony V., **Long**, William E.,

- and **Thomas**, Eric J. Cyclobutanol: fragmentation ratios for the singlet and triplet excited states in the type II photochemistry of some α -alkylated cyclohexanones, 7.
- Florio**, Saverio. See **Bartoli**, Giuseppe, 1371.
- Fonken**, G. J. See **Dewar**, Michael J. S., 764.
- Foster**, Roy, **Iball**, John, **Scrimgeour**, Sheelagh N., and **Williams**, Brent C. Crystal structure and nuclear magnetic resonance spectra of a 1:1 complex of benz[*a*]anthracene and pyromellitic dianhydride (benzene-1,2,4,5-tetracarboxylic dianhydride), 682.
- Foster**, Roy. See also **Bailey**, Ray J., 1590.
- Foresti**, Elisabetta. See **Bombieri**, Gabriella, 1404.
- Fornaroli**, Mirio. See **Montoneri**, Enzo, 1784.
- Forlani**, Luciano. See **Bosco**, Marcella, 398.
- Forrester**, Alexander R. See **Baldry**, Peter J., 76.
- Forsellini**, Eleonora. See **Bombieri**, Gabriella, 1404.
- Frank**, Judit, and **Katritzky**, Alan R. Tautomeric pyridines. Part XV. Pyridone-hydroxypyridine equilibria in solvents of differing polarity, 1428.
- Fratello**, Anthony, **Kubo**, Robert, and **Chow**, Stanley. Direct carbon-13 nuclear magnetic resonance study of boron trifluoride complexes with alkyl and cyclic ketones, 1205.
- Freeman**, Hans C. See **Bowden**, Bruce C., 658.
- Frey**, Henry M., **Hopf**, Henning, and **Smith**, Robert A. Thermal isomerization of 3,6-dimethyltricyclo[3.1.0.0^{2,4}]-hexane, 1865.
- Fringuelli**, Francesco, **Marino**, Gianlorenzo, **Taticchi**, Aldo, **Distefano**, Guisepe, **Colonna**, F. P., and **Pignataro**, Salvatore. Photoelectron spectra of the α -substituted derivatives of furan, thiophen, selenophen, and tellurophen. A comparative study of the molecular orbital energies, 276.
- Fuchs**, Benzion. See **Wechsler**, Pablo S., 943.
- Fuchs**, Richard. See **Jaiswal**, Devendra K., 102.
- Funke**, Carel W., and **Cerfontain**, Hans. Photoreduction of cycloalkanecarbaldehydes, 669.
- The gas-phase photolysis of cyclobutanecarbaldehyde, 826.
- Photochemical oxetan formation: the Paterno-Büchi reaction of aliphatic aldehydes and ketones with alkenes and dienes, 1902.
- Funke**, Carel W., **de Boer**, Jan L. M., **Geenevasen**, Jan A. J., and **Cerfontain**, Hans. The photochemistry of some cycloalkanecarbaldehydes in inert solvents, 1083.
- Furukawa**, Naomichi. See **Aida**, Tetsuo, 1432.

G

- Galasso**, Vinicio, and **Pappalardo**, Guisepe C. Dipole moments and absorption spectra of heterocyclic diketones, 574.
- Galasso**, Vinicio. See also **Bigotto**, Adriano, 1845.
- Galliani**, Guido, **Rindone**, Bruno, and **Beltrame**, Pier Luigi. Kinetics of the oxidation of some *meta*- and *para*-substituted dimethylanilines with lead tetra-acetate, 1803.
- Garrido**, Dionisio. See **Nudelman**, Norma Sbarbati, 1256.
- Gattegno**, Daniela, **Hawkes**, Geoffrey E., and **Randall**, Edward W. Natural abundance nitrogen-15 nuclear magnetic resonance spectroscopy. Medium effects on the nitrogen-15 chemical shifts of small peptides, 1527.
- Gaudemer**, Alain. See **Dodd**, David, 1261.
- Geenevasen**, Jan A. J. See **Funke**, Carel W., 1083.
- Gelb**, Robert I., and **Schwartz**, Lowell M. Aqueous dissociation of dihydroxycyclopropanone (deltic acid), 930.
- Gelli**, Gioanna. See **Beltrame**, Paolo, 1001.
- Geoffroy**, M. See **de Weck**, Z. Ardalán, 1867.
- George**, Philip, **Trachtman**, Mendel, **Bock**, Charles W., and **Brett**, Alistair M. Homodesmotic reactions for the assessment of stabilization energies in benzenoid and other conjugated cyclic hydrocarbons, 1222.
- George**, William O. See **Compton**, David A. C., 1666.
- Gentric**, Emilie, **Lauransan**, Jacques, **Roussel**, Christian, and **Metzger**, Jacques. Steric and electronic effects on self-association of potentially bifunctional catalysts: Δ^4 -thiazoline-2-thiones, 565.
- Ghisalberti**, Emilio L., **White**, Allan H., and **Willis**, Anthony C. Crystal structure and absolute configuration of 2 α ,6,6,8-tetramethyltricyclo[6.2.1.0^{4,5}]undecan-7 β -yl *p*-bromobenzoate, 1300.
- Ghislandi**, Victor. See **Tacconi**, Gianfranco, 150.
- Gibson**, Harry W., and **Bailey**, Fowtrey C. Linear free energy relationships. Part VI. Acidity of 4-(5-X-2-hydroxystyryl)-*N*-methylpyridinium iodides. Part VII. Synthesis and properties of a novel 'double-barrelled' solvatochromic compound, 196, 1575.
- Giffney**, C. Janet, and **O'Connor**, Charmian J. Hydrolysis of phenylureas. Part II. Hydrolysis in acid and aqueous solutions, 362.
- Gilbert**, Bruce C., **Holmes**, Robert G. G., **Laue**, Hugh A. H., and **Norman**, Richard O. C. Electron spin resonance studies. Part L. Reactions of alkoxy radicals generated from alkyl hydroperoxides and titanium(III) ion in aqueous solution, 1047.
- Gilbert**, Bruce C., **Laue**, Hugh A. H., **Norman**, Richard O. C., and **Sealy**, Roger C. Electron spin resonance studies. Part XLVIII. Radicals derived from organic sulphites and related compounds, 1040.
- Gilbert**, Bruce C. See also **Brunton**, George, 650, 1267, **Clarke**, David, 114, and **Dobbs**, Anthony J., 1044.
- Gilli**, Gastone. See **Dondoni**, Alessandro, 1036.
- Giuffrè**, Luigi. See **Montoneri**, Enzo, 1784.
- Glatt**, H. See **Bacaloglu**, I., 524.
- Gleghorn**, J. T., and **McConkey**, F. W. Theoretical studies of aromatic substitution. Part II. Gas-phase protonation of benzene and toluene, 1078.
- Gnanasekaran**, C. See **Nadar**, P. Ananthakrishna, 1893.
- Godet**, Jean-Yves. See **Davies**, Alwyn G., 1719.
- Goka**, Anthony M., and **Sherrington**, David C. Effect of alkyl substituent chain length on the ion-pair dissociation equilibria of quaternary ammonium hexachloro-antimonate salts in dichloromethane, 329.
- Gold**, Victor. Enthalpies of transfer involving ionic transition states: the redundancy of extrathermodynamic assumptions, 1531.
- Gore**, Peter H. See **Farooqi**, Jameel, 1921.
- Goringe**, Michael J. See **Parkinson**, Gordon M., 836.
- Gould**, Sheila E. B., **Gould**, Robert O., **Rees**, David A., and **Wight**, Alistair W. Interactions of cations with sugar anions. Part II. Crystal structure of strontium 4-*O*-(4-deoxy- β -L-*threo*-hex-4-enosyl)- α -D-galacturonate-4.5 water, 392.
- Gould**, Robert O. See **Gould**, Sheila E. B., 392.
- Grainger**, Stephen. See **Bell**, Ronald P., 1367, 1606.
- Gray**, George W., and **Mosley**, Alan. Trends in the nematic-isotropic liquid transition temperatures for the homologous series of 4-*n*-alkoxy- and 4-*n*-alkyl-4'-cyanobiphenyls, 97.
- Gray**, George W. See also **Coates**, David, 300, 863.
- Graziani**, Rodolfo. See **Bombieri**, Gabriella, 1404.

- Greaney**, Terry M. See **Kennard**, Colin H. L., 302.
- Greci**, Lucedio. See **Colonna**, Martino, 309, 317.
- Greenacre**, Geoffrey C., and **Young**, Ronald N. Extrathermodynamic relationships for ion-pair equilibria in media of low dielectric constant, 874.
Relative reactivities of ion-pairs of the 1,3-diphenylallyl carbanion towards fluorene, 1636.
- Grellier**, Priscilla L. See **Abraham**, Michael H., 1735.
- Griffin**, Anselm C. See **Dewar**, Michael J. S., 710, 713.
- Griffiths**, D. Vaughan. See **Booth**, Harold, 751.
- Grossel**, Martin C., and **Hayward**, Rodney C. Homoallylic coupling in 1,4-dihydronaphthalenes, 851.
- Grossel**, Martin C., and **Perkins**, M. John. Phenanthronorbornyl cation: a conformation-locked 1,2-diarylnorbornyl cation. Part II. ^{13}C Nuclear magnetic resonance spectroscopy, 1334.
- Guarna**, Antonio. See **De Sarlo**, Francesco, 626.
- Guerra**, Maurizio. See **Pedulli**, Gian Franco, 173, 946.
- Guiheneuf**, Georges, **Laurence**, Christian, and **Katritzky**, Alan R. 1,3-Dipolar character of six-membered aromatic rings. Part XXIX. Kinetic rates and equilibria for the addition of 2π -electron addends to 3-oxidopyridinium betaines, 1829.
- Guy**, Michael H. P., **Sim**, George A., and **White**, David N. J. Molecular mechanics calculations on lactones; an interpretation of the preferential C(8) relactonization of germacranolides containing C(6) and C(8) lactonizable α -oxygen functions, 1917.
- ## H
- Hagishita**, Sanji. See **Shiro**, Motoo, 1447.
- Hall**, Alan J., and **Satchell**, Derek P. N. The products, kinetics, and mechanisms of metal ion-promoted hydrolyses of thioimidate esters and the effects of hydrogen ions on thioimidate ester hydrolyses, 1274.
Hydrolysis of *N*-cyclohexyl methylthiobenzimidate in the presence of tetrachlorogold(III) ions and the effects of hydrogen, halide, and other ions, 1278.
- Hall**, C. Dennis. See **Dyer**, Robert L., 1613, and **Posner**, Tamar B., 729.
- Hall**, D. Muriel. See **Al-Tai**, Adil S., 133.
- Hall**, John A. See **Albery**, W. John, 473.
- Hall**, M. James. See **Crabb**, Trevor A., 203.
- Halmann**, Mordehai, **Vofsi**, David, and **Yanai**, Shaul. Reaction of phosphonated acetals. Acid-catalysed hydrolysis of dialkyl 2,2-dialkoxyethylphosphonates, 1210.
- Halton**, Brian, **Hügel**, Helmut M., **Kelly**, David P., **Müller**, Paul, and **Burger**, Ulrich. Cyclopropa-arenium cations. Part II. Carbon-13 nuclear magnetic resonance spectra of 1-halogenocyclopropabenzenium cations and their 1,1-dihalogeno-precursors, 258.
- Hamdi**, Suheila T., **Jones**, John R., and **Rumney**, Trevor G. The acidities of weak acids. Part IV. Some methyl styryl ketones, 846.
- Hamor**, Margaret Joy, and **Hamor**, Thomas A. Geometry of the fluorinated *cis*-decalin system: crystal and molecular structure of *cis*-perfluorobicyclo[4.4.0]decane-1,6-diol, 383.
- Hamor**, Thomas A. Stereochemistry of anticholinergic agents. Part VIII. Crystal and molecular structure of *O*-benzoyltropine hydrochloride, 1359.
- Hamor**, Thomas A. See also **Hamor**, Margaret Joy, 383.
- Hannan**, Brian N. B. See **de la Mare**, Peter B. D., 1389.
- Hansen**, Lee D. See **Lewis**, Edwin A., 125.
- Hanson**, Ian R., **Hughes**, David L., and **Truter**, Mary R. Crystal and molecular structure of 6,7,9,10,12,13,20,21,23,24,26,27-dodecahydrodibenzo[*b,n*][1,4,7,10,13,16,19,22]octaoxacyclotetracosin (dibenzo-24-crown-8), 972.
- Hanson**, Peter. See **Clarke**, David, 114.
- Hardy**, Andrew D. U., and **MacNicol**, David D. Crystal and molecular structure of an $\text{OH}\cdots\pi$ hydrogen-bonded system: 2,2-bis-(2-hydroxy-5-methyl-3-*t*-butylphenyl)propane, 1140.
- Harlow**, Richard L. See **Sammes**, Michael P., 1126, 1130.
- Harris**, Margaret M., and **Singh**, Shyam. Optically active nine-membered rings incorporating the 8- and 8'-positions of 1,1'-binaphthyl, 793.
- Hassan**, Mustapha. See **El Dusouqui**, Osman M. H., 357, 359.
- Hassan**, Saad S. M. See **Awad**, William I., 128.
- Hauser**, Herman M. See **Wee Lam Ny**, 637.
- Hawkes**, Geoffrey E., **Utley**, James H. P., and **Yates**, George B. Electro-organic reactions. Part IX. Mechanism of the Kolbe reaction; stereochemistry of reaction of anodically generated cyclohexyl radicals and cations, 1709.
- Hawkes**, Geoffrey E. See also **Gattegno**, Daniela, 1527.
- Hawkins**, Hilary C., and **Williams**, Andrew. Proteolytic enzymes: electrophilic participation in the acylation step, 723.
- Hawkins**, Malcolm D. Intramolecular catalysis. Part II. Hydrolysis of diphenylmethyl hydrogen phthalate: neighbouring group participation and alkyl-oxygen fission. Part III. Hydrolysis of 3'- and 4'-substituted phthalanilic acids [*o*-(*N*-phenylcarbamoyl)benzoic acids], 639, 642.
- Hayes**, John. See **Bethell**, Donald, 966.
- Hayward**, Rodney C. See **Grossel**, Martin C., 851.
- Hearn**, Milton T. W., and **Turner**, John L. The carbon-13 nuclear magnetic resonance spectra of the antibiotic polyacetylenic nitrile, diatretyne 2 (7-cyanohept-*trans*-2-ene-4,6-dienoic acid), and related compounds, 1027.
- Heatley**, Frank, **Cox**, Michael K., and **Jacques**, Brian. Conformation of *cis*-stilbene and some derivatives studied by nuclear magnetic relaxation measurements, 510.
- Hegarty**, Anthony F., **Kearney**, Joseph A., **Cashell**, Patrick A., and **Scott**, Francis L. Mechanism of oxidative cleavage by bromine of diazabutadienes (azines) to aldehydes or ketones, 242.
- Hegarty**, Anthony F. See also **McCormack**, Margaret T., 1701.
- Henrichs**, P. Mark. Application of ^{13}C chemical shifts and relaxation times to the study of charge distribution, aggregation, and conformation in carbocyanine dyes. Part I, 542.
- Henry**, Rodney S., **Riddell**, Frank G., **Parker**, William, and **Watt**, C. Ian F. The energetics of a readily occurring intramolecular hydride shift, 1549.
- Henshall**, John B. See **Bell**, Ronald P., 39.
- Hewitson**, Barry. See **Brown**, Charles, 888.
- Hill**, John. See **Clark**, Jim, 1514.
- Hirst**, Jack. See **Ayediran**, Dapo, 1399.
- Hobbs**, Linn W. See **Parkinson**, Gordon M., 836.
- Holden**, Collette M., **Rees**, John C., **Scott**, Stephen P., and **Whittaker**, David. Stereochemistry of reduction of umbellulone (thuj-3-en-2-one) and isodihydroumbellulone (4 β H-thujan-2-one), 1342.
- Holden**, Collette M., and **Whittaker**, David. Rearrangement of the thujan-3-yl cation, 1345.

- Holman**, Richard J., and **Utley**, James H. P. Electro-organic reactions. Part VII. The cathodic reduction of carvomenthone, menthone, and camphor, 884.
- Holman**, Richard J. See also **Coleman**, J. P., 879.
- Holmes**, Robert G. G. See **Gilbert**, Bruce C., 1047.
- Holt**, Arthur, and **Smith**, Michael J. Correlation of configuration of some organosilanes, 952.
- Homer**, Roger B., and **Alwis**, Kuruwitagae W. Kinetics and mechanism of the alkaline hydrolysis of guanidine, hexamethylguanidinium perchlorate, and tetramethyl-urea, 781.
- Hopf**, Henning. See **Frey**, Henry M., 1865.
- Hodge**, Philip. See **Davies**, J. Eric D., 841.
- Hotchkiss**, Jacqueline C. See **Burdon**, James, 1052.
- Hubert**, André J. See **Verstraelen**, Leon, 1285.
- Hudson**, Robert F. See **Brown**, Charles, 888.
- Hügel**, Helmut M. See **Halton**, Brian, 258.
- Hughes**, David L. See **Hanson**, Ian R., 972.
- Hutley**, Barrie G. See **Brown**, David R., 838.

I

- Iball**, John. See **Foster**, Roy, 682.
- Iitaka**, Yoichi. See **Kodama**, Yoshio, 1490.
- Inagaki**, Fuyuhiko, **Tasumi**, Mitsuo, and **Miyazawa**, Tatsuo. Conformation of hydroxy-L-proline in aqueous solution. Comparison of results from lanthanide ion probe measurements and proton coupling constants, 167.
- Ingold**, Keith U. See **Brunton**, George, 1659.
- Inoue**, Yoshihisa, **Moritsugu**, Kazuyoshi, **Takamuku**, Setsuo, and **Sakurai**, Hiroshi. Sensitised photolysis of *cis*-cyclo-octene vapour, 569.
- Isaacs**, Neil S., and **Laila**, Abdulhameed A. R. Reaction of 1,3-dienes with sulphur dioxide. Part I. Thermal decomposition of 2,5-dihydrothiophen 1,1-dioxides, 1470.
- Isaacs**, Neil S. See also **de la Mare**, Peter B. D., 784, 1389.
- Ito**, Yuji. See **Okamoto**, Kunio, 1617.
- Izak**, Ilana. See **Bernstein**, Jol, 429.

J

- Jackson**, Paul F. See **Byrne**, J. Sydney, 1800.
- Jackson**, W. Roy. See **Akhtar**, M. Nasseem, 595, 1412.
- Jacobson**, Robert A. See **Stadel**, Paul, 536.
- Jacques**, Brian. See **Heatley**, Frank, 510.
- Jaiswai**, Devendra K., **Jones**, John R., and **Fuchs**, Richard. Transition state enthalpies of transfer in aqueous dimethyl sulphoxide solutions. The hydroxide-catalysed racemisation of D- α -methyl- α -phenylacetophenone, 102.
- Jaiswal**, Devendra K. See also **Elvidge**, John A., 353.
- Jáky**, Miklós, and **Simándi**, László I. Mechanism of the permanganate oxidation of unsaturated compounds. Part VI. Kinetic investigation of the oxidation of methylmaleic acid, methylfumaric acid, and dimethylmaleic acid, 939.
- James**, Veronica J. See **Nimgirawath**, Kloy, 349.
- Janposri**, Sompong. See **Bowie**, John H., 1656.
- Janssen**, Matthijs. See also **Koster**, Peter B., 323.
- Jennings**, W. Brian, **Al-Showiman**, Salim, **Boyd**, Derek R., and **Campbell**, Rose M. Dynamic stereochemistry of imines and derivatives. Part IX. The mechanism of *E-Z* isomerization in *N*-alkylimines, 1501.
- Jennings**, W. Brian, **Boyd**, Derek R., and **Waring**, Lionel C.

- Dynamic stereochemistry of imines and derivatives. Part VIII. Barriers to rotation around the carbon-nitrogen bond in imine *N*-oxides (nitrones), 610.
- Jennings**, W. Brian. See also **Bøjra**, Johannes, 606, and **Burdon**, James, 1052.
- Jensen**, William. See **Stadel**, Paul, 536.
- Johnson**, Michael D. See **Dodd**, David, 1261.
- Johnson**, Paul L., **Llaguno**, Elma C., and **Paul**, Iain C. A symmetrically substituted thiathiophthen with unequal sulphur-sulphur bond lengths: crystal and molecular structure of 3,4-diphenyl-6a-thiathiophthen {3,4-diphenyl[1,2]dithiolo[1,5-*b*][1,2]dithiole-7-*S*^{IV}}, 234.
- Jones**, Anne. See **Heatley**, Frank, 510.
- Jones**, Derry W. See **Dale**, Brian J., 91, 1190.
- Jones**, Graham P., and **Pauling**, Peter J. Crystal and molecular structure of 4-aminotetrolic acid (4-aminobut-2-ynoic acid), 32.
- Crystal and molecular structure of imidazole-4-acetic acid hydrochloride 34.
- Jones**, Howard A. See **Butler**, Anthony R. 963.
- Jones**, John R. See **Elvidge**, John A., 353, **Jaiswal**, Devendra K., 102, and **Hamdi**, Suheila T., 846.
- Jones**, Raymond D. G. Crystal structure of the enol form of 1-(4-nitrophenyl)butane-1,3-dione, 513.
- Jones**, Raymond D. G. See also **Bowden**, Bruce C., 658.
- Jones**, T. B. See **Dewar**, Michael J. S., 764.
- Jordan**, David. See **Doddrell**, David, 402.
- Jozefowicz**, Mary L. See **Booth**, Harold, 751, 895.

K

- Kai-Yan Wan**. See **Miller**, Joseph, 1320.
- Kamiya**, Yoshio. See **Sakaguchi**, Hiroshi, 855.
- Kardos**, Julianna. See **Simonyi**, Miklos, 1913.
- Kartha**, Gopinath, **Kuan Tee Go**, **Bose**, Ajay K., and **Tibbetts**, M. S. Crystal structure of (+)-isomenthyl *l*p-bromophenylcarbamate and absolute configuration and conformation of isomenthol by X-ray diffraction and nuclear magnetic resonance studies, 717.
- Katritzky**, Alan R. See **Arriau**, Jean, 1245. **Blackburne**, Ian D., 418, **Cook**, Michael J., 211, **Ferguson**, Ian J., 1564, 1861, **Frank**, Judit, 1428, and **Guiheneuf**, Georges, 1829.
- Kawasaki**, Atsushi. See **Ogata**, Yoshiro, 1017.
- Kearney**, Joseph A. See **Hegarty**, Anthony F., 242.
- Kelly**, David P. See **Halton**, Brian, 258.
- Kemp-Jones**, Anthony V. See **Fleming**, Ian, 7.
- Kennard**, Colin H. L., **Smith**, Graham, **Greaney**, Terry M., and **White**, Allan H. Crystal structure of anhydrous barium methacrylate, 302.
- Kennard**, Colin H. L. See also **Smith**, Graham, 614, 791, 796.
- Kennedy**, Sheila M. F. See **Palmer**, Michael H., 81.
- Kim**, Hyeong L. See **Pettersen**, Roger C., 1399.
- King**, Leslie A. Inductive effect in the relative fluorescence quantum yields of oxybarbiturates, 844.
- Polar substituents and the luminescence of organic compounds, 1725.
- Kingston**, David H. See **Coyle**, John D., 1475.
- Kinoshita**, Kazunori. See **Takeuchi**, Hiroshi, 1201.
- Kinoshita**, Tomonii. See **Okamoto**, Kunio, 1617.
- Kinugasa**, Toshio, **Nakamura**, Michiko, and **Ueji**, Shinichi. Equilibrium study of biphenyl-2-ol by infrared spectroscopy, 1663.
- Kinugasa**, Toshio. See also **Ueji**, Shinichi, 178.

- Kirby, Anthony J., and Lloyd, Gordon J.** Intramolecular general base catalysis in the hydrolysis of 3-dimethylaminopropionates, 1748.
Structure and efficiency in intramolecular and enzymic catalysis: intramolecular general base catalysis, 1753.
The *E1cb* mechanism for ester hydrolysis. Evidence for a dianion intermediate in the hydrolysis of aryl malonate anions, 1762.
- Kirk, David N.** See **Burnett, Raymond**, 1523.
- Kise, Hideo, Sugiyama, Yukio, and Seno, Manabu.** Basicity and nucleophilic reactivity of carbonyl-stabilized sulphimides, 1869.
- Kispert, Lowell D.** See **Pittman, Charles U.**, 621.
- Kitano, Hiromi, Tanaka, Masahiro, and Okubo, Tsuneo.** Polyelectrolyte catalysis of the alkaline hydrolysis of neutral and anionic esters, 1074.
- Kiyan, Nilo Zengo.** See (the late) **Ferreira, Paulo Carvalho**, 1648.
- Khaled, Md. Abu.** See **Davies, David B.**, 187, 1238, 1327.
- Khan, A. Aziz.** See **Khan, M. Niyaz**, 1009.
- Khan, M. Niyaz, and Khan, A. Aziz.** Kinetics and mechanism of base catalysed hydrolysis of barbituric acid, 1009.
- Khan, Munir N.** See **Davies, J. Eric D.**, 841.
- Klaébé, Alain.** See **Koenig, Max**, 955.
- Klemm, LeRoy H.** See **Alunni, Sergio**, 1135.
- Knipe, Anthony C., and Lound-Keast, Joseph.** Kinetics of desulphonative double Smiles' rearrangement of *N*-(2-hydroxyalkyl)-*p*-nitrobenzenesulphonamides, 1741.
- Knipe, Anthony C.** See also **Cameron, T. Stanley**, 802.
- Kodama, Yoshio, Nishihata, Ken, Nishio, Motohiro, and Iitaka, Yoichi.** X-Ray study of (α S, α R, α R, α R)-1-(*p*-bromophenyl)ethyl *t*-butyl sulphoxide and conformational analysis of diastereoisomeric pairs of 1-phenylethyl *t*-butyl sulphoxides, 1490.
- Koebert-Telder, Ankie, and Cerfontain, Hans.** Aromatic sulphonation. Part 52. Ionization, sulphonation, sulphonation, and alkylation of ω -phenylalkan-1-ols in sulphuric acid, 1776.
- Koenig, Max, Klaébé, Alain, Munoz, Aurelio, and Wolf, Robert.** Epimerization of an optically active hexacoordinated phosphorus compound: kinetic studies, 955.
- Korenstein, Rafi, Muszkat, Karol A., Slifkin, Michael A., and Fischer, Ernst.** Reversible photochemistry, photooxidation, and fluorescence of dixanthylidene: temperature and external spin-orbit perturbation effects, 438.
- Korenstein, Raphaël, Muszkat, Karol A., and Seger, Georg.** Structure of the short wavelength photoisomers of bianthrone analogues, 1536.
- Koskimies, Jorma.** See **McPhail Andrew T.**, 1004.
- Koster, Peter B., and Janssen, Matthijs J.** Proton nuclear magnetic resonance studies of protonated cyclopentadiethiophenones and cyclopentadiethiophens, 323.
- Kovacs, Ilona.** See **Simonyi, Miklos**, 1913.
- Köver, László.** See **Marós, László**, 1337.
- Koyama, Kikuhiko.** See **Takeuchi, Hiroshi**, 1201.
- Kreigh, Harry, and Richardson, Frederick S.** Chiroptical properties of lactones. Part III. Electronic rotatory strengths of the $n \rightarrow \pi^*$ transition in $\alpha\beta$ -unsaturated γ -lactone systems, 1674.
- Krüger, Carl.** See **Brauer, David J.**, 532.
- Kuan Tee Go.** See **Kartha, Gopinath**, 717.
- Kubo, Robert.** See **Friatiello, Anthony**, 1205.
- Kunitake, Toyoki.** See **Shinkai, Seiji**, 980.
- Kuriyama, Kooru.** See **Shiro, Motoo**, 1447.
- L**
- Laarhoven, Wim H.** See **Tinnemans, Alois H. A.**, 1104, 1111, 1115.
- Laila, Abdulhameed.** See **Isaacs, Neil S.**, 1470.
- Lalmand, Maurice.** See **Verstraelen, Leon**, 1285.
- Lambelet, Pierre, and Lucken, Edwin A.** The radical-anion of thioxanthen *SS*-dioxide and its 9-substituted derivatives, 164.
- Landini, Dario, Maia, Angela Maria, and Rolla, Franco.** Racemization of sulphoxides with halide ions anchimerically assisted by a hydroxy-group. The different behaviour of chloride and bromide ions, 1288.
- Landini, Dario.** See also **Cinquini, Mauro**, 996.
- Lanfredi, Anna Maria Manotti.** See **Coghi, Leandro**, 1808.
- Lauransan, Jacques.** See **Gentric, Emilie**, 565.
- Laurence, Christian.** See **Guiheneuf, Groeges**, 1829.
- Laue, Hugh A.** See **Dobbs, Anthony J.**, 1044, and **Gilbert, Bruce C.**, 1040, 1047.
- Laye, Peter G.** See **Anthony, Martin E.**, 1032.
- Lee, Ka-sing.** See **Mak, Thomas C. W.**, 1169.
- Le Fevre, Raymond J. W.** See **Aroney, Manuel J.**, 1854.
- Le Grâs, Paul G.** See **Dyer, Robert L.**, 1613.
- Le Guen, M. M. Jean, and Taylor, Roger.** Electrophilic aromatic substitution. Part XVII. Protiodetritiation of some cycloalkyl- and secondary alkyl-benzenes. A linear free energy relationship for *ortho*-aromatic substitution, 559.
- Leitch, Elizabeth.** See **Butler, Anthony R.**, 832.
- Levi, Nissim, and Malament, Donald S.** Photochemistry of $\alpha\alpha'$ -disubstituted azoalkanes. Part II. Photolytic dechlorination, decomposition, and oxidation of $\alpha\alpha'$ -dichloro- and $\alpha\alpha'$ -diacyloxy-azoalkanes, 1249.
- Leviston, Philip G.** See **Brown, David R.**, 838.
- Levsen, Karsten, and Schwartz, Helmut.** Structure of gaseous $C_2H_4O_2^+$ ions formed by McLafferty rearrangement from aliphatic acids, 1231.
- Lewis, Edwin A., Hansen, Lee D., Baca, Ernest J., and Temer, Don J.** Effects of alkyl chain length on the thermodynamics of proton ionization from arsonic and arsenic acids, 125.
- Lincoln, David N.** See **Wray, Victor**, 1307.
- Lindon, John C.** See **Emsley, James W.**, 805.
- Lister, John H.** See **Fenn, M. David**, 29.
- Llaguno, Elma C., Mabuni, Clayton T., and Paul, Iain C.** Structure of an unsymmetrically-substituted thiathiophthen: crystal and molecular structure of 5-methyl-3-[4-methyl-5-(methylthio)thiocarbonyl-2-thienyl]-2-methylthio-6a-thiathiophthen {5-methyl-3-[4-methyl-5-(methylthio)thiocarbonyl-2-thienyl]-2-methylthio[1,2]-dithiolo[1,5-*b*][1,2]dithiole-7-*S*^{IV}}, 239.
- Llaguno, Elma C., and Paul, Iain C.** Structure of a 3-aminothiathiophthen: X-ray analysis of 3-amino-2-methylthio-5-phenyl-6a-thiathiophthen {3-amino-2-methylthio-5-phenyl[1,2]dithiolo[1,5-*b*][1,2]dithiole-7-*S*^{IV}}, 228.
- Llaguno, Elma C.** See also **Johnson, Paul L.**, 234.
- Lloyd, Gordon J.** See **Kirby, Anthony J.**, 1748, 1753, 1762.
- Lockwood, Geoffrey.** See **Blackburn, G. Michael**, 1452.
- Loftus, Philip.** See **Abraham, Raymond J.**, 1142.
- Loi, Aldo.** See **Beltrame, Paolo**, 1001.
- Long, William E.** See **Fleming, Ian**, 7, 14.
- Lopez, Luigi.** See **Calo, Vincenzo**, 247.
- Loran, John S., Naylor, Richard A., and Williams, Andrew,**

- Direct *N*-methylation of 2-pyridylphosphonic acids by diazomethane, 1444.
- Lound-Keast**, Joseph. See **Knipe**, Anthony C., 1741.
- Louw**, Robert. See **Dorrepaal**, Wim, 1815, and **Sprangers**, Wilhelmus, J. J. M., 1895.
- Lucken**, Edwin A. C., and **Poncioni**, Bruno. Electron spin resonance spectra of some substituted methyl radicals, 777.
- Lucken**, Edwin A. C. See also **de Weck**, Z. Ardalan, 1867, and **Lambelt**, Pierre, 164.
- Lunazzi**, Lodovico, **Macciantelli**, Dante, and **Cerioni**, Giovanni. Conformational studies by dynamic nuclear magnetic resonance. Part 4. Rotational isomers and torsional barriers of pyridinecarbaldehydes, 1791.
- Lunazzi**, Lodovico, **Salveti**, Franco, and **Veracini**, C. Alberto. Nematic phase nuclear magnetic resonance investigations of rotational isomerism. Part IV. Conformational study on the rotamers of 3,3'-bithienyl, 1796.
- Lunazzi**, Lodovico, **Ticca**, Antonello, **Macciantelli**, Dante, and **Spunta**, Giuseppe. Conformational studies by dynamic nuclear magnetic resonance. Part III. Rotamers arising from restricted motion in substituted benzaldehydes, 1121.
- Lunazzi**, Lodovico. See also **Danieli**, Roberto, 19.
- Lunt**, Edward. See **Arriau**, Jean, 1245.
- M**
- Mabuni**, Clayton T. See **Llaguno**, Elma C., 239.
- Maccarone**, Emanuele, **Musumarra**, Giuseppe, and **Tomaselli**, Gaetano A. Substituent effects in five-membered rings: σ_{Het} constants for thia- and oxa-substituents from the reaction of arenesulphonyl chlorides with aniline, 906.
- McConkey**, F. W. See **Gleghorn**, J. T., 1078.
- Macciantelli**, Dante. See **Lunazzi**, Lodovico, 1121, 1791.
- McDonald**, Kenneth. See **Bethell**, Donald, 966.
- McCormack**, Margaret T., and **Hegarty**, Anthony F. Nucleophilic addition to linear nitrilium ions ($-\text{C}\equiv\text{N}^+$) leading to single isomers. Isolation of relatively stable isoimides and their rearrangement to imides limited by substrate *Z-E* isomerisation, 1701.
- McGlone**, Michael J. See **de la Mare**, Peter B. D., 784.
- McKellar**, John F. See **Bentley**, Peter, 1850.
- McKenna**, James. See **Brown**, David R., 838.
- McKenna**, Jean M. See **Brown**, David R., 838.
- McLauchlan**, K. A. See **Bowers**, P. R., 915.
- McLennan**, Duncan J. The carbanion mechanism of olefin-forming elimination. Part VII. The isotope effect maximum in the dehydrochlorination of 2,2,2-trichloro-1,1-bis-(*p*-chlorophenyl)ethane by various bases in alcoholic solvents, 932.
- McMurray**, Norman, **Tedder**, John M., **Vertommen**, Luc L. T., and **Walton**, John C. Free radical addition to olefins. Part XVIII. Addition of chloroiodo- and di-iodo-methane to fluoroalkenes, 63.
- MacNicol**, David D. See **Hardy**, Andrew D. U., 1140.
- McPhail**, Andrew T., and **Onan**, Kay D. Crystal and molecular structure of carolenalone, a cycloheptenone sesquiterpene lactone from North Carolina *Helenium autumnale* L, 332
- Crystal and molecular structure of eupafomonin, a cytotoxic germacranolide from *Eupatorium formosanum* HAY, 578.
- McPhail**, Andrew T., **Onan**, Kay D., and **Koskimies**, Jorma. X-ray crystal structure conformational studies on *r-4,c-6*-dimethyl-1,3-dithian and its oxides, *r-4,c-6*-dimethyl-1,3-dithian *t-1*-oxide, and *r-4,c-6*-dimethyl-1,3-dithian *t-1,t-3*-dioxide, 1004.
- McPhail**, Andrew T. See also **Toubiana**, Raoul, 1881.
- Macrae**, Robert. See **Chadwick**, Derek J., 597.
- Maddams**, William F. See **Compton**, David A. C., 1666.
- Maffeo**, Carmine V. See **Fiandanese**, Vito, 1303.
- Maggi**, Domenico. See **Bianchi**, Giorgio, 1030.
- Maggi**, Lucia Dacrema. See **Tacconi**, Gianfranco, 150.
- Maia**, Angela Maria. See **Cinquini**, Mauro, 996, and **Landini**, Dario, 1288.
- Maia**, Hernani L., **Orrell**, Keith G., and **Rydon**, H. N. Evaluation of the equilibrium and activation parameters for the interconversion of the conformational isomers of some *N*-acylprolines by nuclear magnetic resonance spectroscopy, 761.
- Mak**, Thomas C. W., **Tse**, John S., **Tse**, Chi-sang, **Lee**, Kasing, and **Chong**, Yuet-han. Crystal structure of a clathrate inclusion compound of hydroquinone and hydrogen sulphide, 1169.
- Malament**, Donald S. See **Levi**, Nissim, 1249.
- Mann**, Frederick G., **Millar**, Ian T., **Powell**, H. Marcus, and **Watkin**, David J. Crystal structure of 10-phenylphenoxaphosphine, 1383.
- Marchetti**, Leonardo. See **Colonna**, Martino, 309, 317.
- Marcuzzi**, Franco, and **Melloni**, Giovanni. Electrophilic additions to acetylenes. Part VI. Addition of *t*-butyl chloride and benzyl chloride to alkynes, 1517.
- Marino**, Gialorenzo. See **Fringuelli**, Francesco, 276.
- Maros**, László, **Molnár-Pere**, Ibolya, and **Kövé**, László. Mechanism of the oxidation of glyoxylic and pyruvic acids by periodate, 1337.
- Martelli**, Giorgio. See **Testaferri**, Lorenzo, 662.
- Martin**, Gérard J. See **Martin**, Maryronne, L., 182.
- Martin**, G., and **Barroeta**, N. Gas-phase thermolysis of sulphur compounds. Part I. Di-*t*-butyl disulphide, 1421.
- Martin**, Maryvonne L., **Ricolleau**, Gabriel, **Poignant**, Serge, and **Martin**, Gérard J. Nuclear magnetic resonance investigations of carbonium ion intermediates. Part IV. Study of the intermediates involved in the reaction between carboxamides and Lewis acids (extended Vilsmeier reaction) by ^1H and ^{13}C nuclear magnetic resonance spectroscopy, 182.
- Martinotti**, F. Falcitano. See **Falcitano**, A., 1014, 1017.
- Marzorati**, Liliana. See **Fabi**, Marino T., 16.
- Masui**, Masaichiro, **Ohmori**, Hidenobu, **Sayo**, Hiroteru, **Ueda**, Ayako, and **Ueda**, Chihiro. Anodic oxidation of carboxamides. Part II. Anodic oxidation and pyridination of *N*-methyl-4'-methoxybenzanilide in acetonitrile, 1180.
- Mashedor**, David. See **Smith**, John R. Lindsay, 47.
- Maskill**, Howard, and **Whiting**, Mark C. Classical carbonium ions. Part VIII. Deamination of *cis*- and *trans*-4-*t*-butylcyclohexylamines, 1462.
- Maskill**, H. Bridgehead β -deuterium secondary kinetic isotope effect in the solvolysis of *endo*-norbornan-2-yl *p*-bromobenzenesulphonate, 1889.
- Maskill**, H. See also **Banks**, R. M. (Mrs.), 1506.
- Maslen**, Edward N., **Sheppard**, Peter N., **White**, Allan H., and **Willis**, Anthony C. Crystal structure of the tricyclic diterpene derivative 18-hydroxydecipia-2(4),14-dien-1-*oic* acid, 263.

- Mason, Joan.** The interpretation of carbon nuclear magnetic resonance shifts. Part 2. The alkane (empirical) shielding parameters, and an absolute scale for carbon shielding, 1671.
- Masson, S.** See **de Weck, Z. Ardalan**, 1867.
- Mawby, Roger J.** See **Brunton, George**, 650, 1267.
- Maynard, Ruth.** See **Clark, Jim**, 73.
- Mazhar-ul-Haque, and Caughlan, Charles N.** Crystal and molecular structure of *NN*-dimethyldiphenylphosphinamide, 1101.
- Mazhar-Ul-Haque.** See also **Noushad, Fatemah**, 623.
- Mbadive, Eddie I.** See **Davies, Roger**, 616.
- Mead, Leonard A. V.** See **Smith, John R. Lindsay**, 1172.
- Meakins, G. Denis.** See **Chadwick, Derek J.**, 1, 597.
- Mears, Andrew R.** See **Al-Tai, Adil S.**, 133.
- Meeks, B. Spencer.** See **Dodd, David M.**, 1261.
- Melia, Raymond A.** See **Brown, David R.**, 838.
- Melloni, Giovanni.** See **Maraizzi, Franco**, 1517.
- Mentasti, Edoardo, Pelizzetti, Ezio, and Baiocchi, Claudio.** Kinetics of oxidation of organic compounds by silver(II) in aqueous perchloric acid solution. Part 2. Aliphatic carboxylic acids, 1841.
- Mentasti, Edoardo.** See also **Pelizzetti, Ezio**, 1651.
- Metz, Bernard, Moras, Dino, and Weiss, Raymond.** Polyoaxamacrobicyclic diamines. Structure of 4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane and of its bisborohydride, $C_{18}H_{36}N_2O_6 \cdot 2BH_3$, 423.
- Metzger, Jacques.** See **Gentric, Emilie**, 565.
- Milburn, Peter W.** See **Bell, Elizabeth A.**, 588.
- Millar, Ian T.** See **Munn, Frederick G.**, 1383.
- Miller, Joseph, and Kai-Yan Wan.** The S_N mechanism in aromatic compounds. Part XL. Activating effects of groups attached to the ring by a sulphur atom, 1320.
- Miller, Joseph.** See also (the late) **Ferreira, Paulo Carvalho**, 1648.
- Miller, Richard W.** See **Toubiana, Raoul**, 1881.
- Mills, John A.** See **Nimgirawath, Kloy**, 349.
- Milton, Alan J. S.** See **Cameron, G. Gordon**, 378.
- Minisci, Francesco.** See **Bellatti, Marta**, 1835.
- Minter, David E.** See **Dewar, Michael J. S.**, 764.
- Mishra, Shuddhodan P., and Symons, Martyn C. R.** Radiation mechanisms. Part VII. Electron-loss and -capture processes in phenylphosphinic acid and related compounds, 21.
- Mitani, Michiharu.** See **Takeuchi, Hiroshi**, 1201.
- Mitchell, James W.** See **Arriau, Jean**, 1245.
- Mitchell, Terence N.** Group IVB organometal derivatives of pyridine. Part II. The reaction with bis(trimethylsilyl)mercury; organometal-substituted *N*-trimethylsilylpyridyl free radicals, 1149.
- Miyata, Yukino.** See (the late) **Ferreira, Paulo Carvalho**, 1648.
- Miyazawa, Tatsuo.** See **Inagaki, Fuyuhiko**, 167.
- Mollett, Kathryn J., and O'Connor, Charmian J.** Hydrolysis of phenylureas. Part III. Micellar effects on the solubilization and decomposition of 4-methyl- and 4-nitro-phenylurea, 369.
- Molnár-Perl, Ibolya.** See **Maros, László**, 1337.
- Monk, Derek F.** See **Eley, Daniel D.**, 1292.
- Montoneri, Enzo, Fornaroli, Mirco, Giuffrè, Luigi, Tempesti, Ezio, and Sioli, Giancarlo**, 1784.
- Moodie, Roy B., Schofield, Kenneth, and Weston, John B.** Electrophilic aromatic substitution. Part XV. The kinetics, mechanism, and products of nitrodebromination in sulphuric acid, 1089.
- Moodie, Roy B.** See also **Bond, Patricia M.**, 68, 679.
- Moore, Francis H.** See **Power, Leslie F.**, 249.
- Moras, Dino.** See **Metz, Bernard**, 423.
- Moresco, Anna M.** See **Festa, Crescenzo**, 180.
- Morgan, Keith J.** See **Byrne, J. Sydney**, 1800.
- Moritsugu, Kazuyoshi.** See **Inoue, Yoshihisa**, 569.
- Morley, John O.** Studies on the sulphonation of anthracene. Part I. Sulphonation in neutral or basic solvents. Part 2. Sulphonation in acetic and related solvents, 1554, 1560.
- Morris, David G., and Murray, A. Malcolm.** Carbon-13 chemical shifts and substituent effects in 4-substituted camphors, *N*-nitrocamphorimines, and diazocamphors, 1579.
- Mosley, Alan.** See **Gray, George W.**, 97.
- Muggleton, Brenda.** See **Davies, Alwyn G.**, 502, 1719.
- Mugnoli, Angelo, and Simonetta, Massimo.** Crystal and molecular structure of 4,10-dibromo-17-methanol-[12]annulene, 822.
- Crystal structure of a very hindered olefin: 1,1-diphenyl-2,2-di-*t*-butylethylene at -155°C , 1831.
- Muir, David M., and Whiting, Mark C.** Kinetics and mechanism of N-H and C-H exchange in pyrrole and indole. Part II. General acid catalysed exchange in aqueous acetonitrile, 388.
- Müller, Paul.** See **Halton, Brian**, 258.
- Munoz, Aurelio.** See **Koenig, Max**, 955.
- Murphy, David.** See **Dixon, William T.**, 1823.
- Murphy, William J.** See **Brown, Norman M. D.**, 1769.
- Murray, A. Malcolm.** See **Morris, David G.**, 1579.
- Murray, Charles D.** See **Bell, Elizabeth A.**, 588, and **Cadogan, J. I. G.**, 583.
- Musumarra, Giuseppe.** See **Maccarone, Emanuele**, 906.
- Muszkat, Karol A., and Weinstein, Meir.** Reversible hydrogen photoabstraction by nitroaromatic compounds. A chemically induced nuclear polarization study, 1072.
- Muszkat, Karol A.** See also **Korenstein, Raphael**, 438, 1536.

N

- Nadar, P. Ananthkrishna, and Gnanasekaran, C.** Kinetics of solvolysis of substituted ω -bromo-2-acetonaphthones in aqueous ethanol, 1893.
- Nagura, Kenji.** See **Ogata, Yoshio**, 628.
- Nakamura, Michiko.** See **Kinugasa, Toshio**, 1663.
- Narasimhamurthy, Mathur R., Venkatesan, Kailasam, and Winkler, Fritz.** Crystal and molecular structure of *N*-acetyl-L-glutamine, 768.
- Nashed, Shawky.** See **Awad, William I.**, 128.
- Naso, Francesco.** See **Fiandanese, Vito**, 1303.
- Navaratnam, Suppiah.** See **Davies, A.**, 25.
- Naylor, Richard A., and Williams, Andrew.** Electrophilic participation in phosphonodiester hydrolysis, 1908.
- Naylor, Richard A.** See also **Loran, John S.**, 1444.
- Nechvatal, Anthony.** See **Ody, Keith**, 521.
- Newman, David J.** See **Chapman, Norman B.**, 847.
- Niki, Etsuo.** See **Sakaguchi, Hiroshi**, 855.
- Nimgirawath, Kloy, James, Veronica J., and Mills, John A.** Crystal structure of *meso*-L-glycero-L-gulo-heptitol, 349.
- Nishihata, Ken.** See **Kodama, Yoshio**, 1490.
- Nishio, Motohiro.** See **Kodama, Yoshio**, 1490.
- Nivard, Rutger J. F.** See **van Rossum, Anton J. G.**, 1322.
- Nguyen Van Duong, K.** See **Dodd, David**, 1261.
- Ng, Wee Lam, Field, John E., and Hauser, Herman M.**

- Study of the thermal decomposition of pentaerythritol tetranitrate, 637.
- Norfolk**, Susan de Burgh, and **Taylor**, Roger. The mechanism of the gas-phase pyrolysis of esters. Part IV. Effects of substituents at the β -carbon atom, 280.
- Norman**, Richard O. C. See **Dobbs**, Anthony J., 1044, and **Gilbert**, Bruce C., 1040, 1047.
- Noto**, Renato. See **Spinelli**, Domenico, 747, 1495, 1805.
- Nour**, Takla A. See **Queen**, Alan, 935.
- Nowell**, Ian W. See **Allen**, David W., 1610.
- Nowshad**, Fatemeh, and **Mazhar-Ul-Haque**. Crystal structure of 3,3'-diacetyl-5,5'-dichloro-2,2'-dihydroxydiphenylmethane, 623.
- Nucci**, Lamberto. See **Festa**, Crescenzo, 180.
- Nudelman**, Norma Sbarbati, and **Garrido**, Dionisio. Kinetic evidence for a methanolysis intermediate in aromatic nucleophilic substitution, 1256.
- O**
- Oae**, Shigeru. See **Aida**, Tetsuo, 1432, 1438.
- O'Connor**, Charmian J. See **Giffney**, C. Janet, 362, and **Mollett**, Kathryn J., 369.
- Ody**, Keith, **Nechvatal**, Antony, and **Tedder**, John M. Liquid-phase bromination of bromobutane: variation of the ratio of 1,2- to 1,3-dibromobutanes produced, 521.
- Ogata**, Yoshiro, **Kawasaki**, Atsushi, and **Akutagawa**, Ken'ichi. Mechanism of the cyanide ion-catalysed cleavage of benzils by amines in aqueous dioxan, 1021.
- Ogata**, Yoshio, and **Nagura**, Kenji. Iodine oxidation of arylacetones in alkaline methanol, 628.
- Ohmori**, Hidenobu. See **Masui**, Masaichiro, 1180.
- Okamoto**, Kunio, **Kinoshita**, Tomomi, **Oshida**, Takahiro, **Yamamoto**, Takashi, **Ito**, Yuji, and **Dohi**, Masahiro. Retentive solvolysis. Part XI. Retentive phenolyses of optically active secondary and tertiary systems without a group imposing configurational restriction, 1617.
- Okubo**, Tsuneo. See **Kitano**, Hiromi, 1074.
- Olivato**, Paulo R. See **Fabi**, Marino T., 16.
- Onan**, Kay D. See **McPhail**, Andrew T., 332, 578, 1004.
- Orrell**, Keith G. See **Maia**, Hernani L., 761.
- Oshida**, Takahiro. See **Okamoto**, Kunio, 1617.
- Ostrogovich**, G. See **Bacaloglu**, I., 524.
- P**
- Painter**, Terence J. Influence of cosolutes upon the conformation of carbohydrates in aqueous solutions. Part III. Effect of inorganic ions upon the binding of iodine by starch and derivatives of amylose, 215.
- Paliani**, Giulio, **Sorriso**, Salvatore, and **Cataliotti**, Rosario. Thermodynamic parameters in the conformation equilibria of acetyldiazomethane, 1-acetyl-1-diazoethane, and benzoyl(diazo)phenylmethane using infrared spectroscopy, 707.
- Palmer**, Michael H., and **Kennedy**, Sheila M. F. The electronic structure of the quinonoid bicyclic heterocycles isoindole, benzo[*c*]furan, benzo[*c*]thiophen, and 2*H*-indene, 81.
- Pappalardo**, Giuseppe C. See **Bigotto**, Adriano, 1845, **Chachaty**, Claude, 1234, and **Galasso**, Vinicio, 574.
- Pardi**, Lucio. See **Festa**, Crescenzo, 180.
- Park**, James R., and **Williams**, D. Lyn H. Reaction of dinitrogen trioxide with 2-methylpropene and other alkenes. Evidence for electrophilic nitrosation, 828.
- Parker**, Vernon D. See **Svanholm**, Ulla, 1567.
- Parkinson**, Gordon M., **Thomas**, John M., **Williams**, John O., **Goringe**, Michael J., and **Hobbs**, Linn W. The suggested role of partial dislocations in the single crystal \rightleftharpoons single crystal phase transition of a cyclo-octane molecular cationic salt, 836.
- Parrott**, Maxwell J. See **Davies**, Alwyn G., 1066, 1151.
- Pascard**, Claudine. See **Ducruix**, Arnaud, 1678.
- Patel**, Ranjan (Miss). See **Ferguson**, Ian J., 1564.
- Paton**, R. Michael. See **Bell**, Elizabeth A., 588.
- Paul**, Iain C. See **Johnson**, Paul L., 234, **Llaguno**, Elma C., 228, 239, and **Puckett**, Sherrill A., 1873.
- Pauling**, Peter J. See **Jones**, Graham P., 32, 34.
- Pearson**, Harry. See **Anderson**, J. Edgar, 336.
- Pedulli**, Gian Franco, and **Alberti**, Angelo. Electron spin resonance study of the interaction between radical ion pairs and macrocyclic polyethers, 137.
- Pedulli**, Gian Franco, **Alberti**, Angelo, **Guerra**, Maurizio, **Seconi**, Giancarlo, and **Vivarelli**, Piero. An electron spin resonance study of ring inversion in the radical anions of *peri*-bridged naphthalenes and singly bridged biphenyls, 173.
- Pedulli**, Gian Franco, **Paolo**, Zanirato, **Alberti**, Angelo, **Guerra**, Maurizio, and **Tiecco**, Marcello. Intramolecular cation exchange in ion pairs. Part II. Isomeric radical ion pairs of dithiolactones, 946.
- Peeters**, Oswald M., and **De Ranter**, Camiel J. Kinetics of the hydrolysis of thioacetamide in alkaline solution, 1062.
- Pelizzetti**, Ezio, **Mentasti**, Edoardo, and **Pramauro** Edmondo. Kinetics and mechanism of oxidation pathways of some catecholamines with periodic acid, 1651.
- Pelizzetti**, Ezio. See also **Mentasti**, Edoardo, 1841.
- Penny**, David E. Thermal isomerization of benzene cis-trioxide (3,6,9-trioxatetracyclo[6.1.0.0^{2,4}.0^{5,7}]nonane), 36.
- Pereyre**, Michel. See **Davies**, Alwyn G., 1719.
- Perkins**, M. John. See **Grossel**, Martin C., 1334.
- Pesce**, Giovanni. See **Calo**, Vincenzo, 247.
- Petcher**, Trevor J., and **Weber**, Hans-Peter. Conformations of some semi-rigid neuroleptic drugs. Part I. Crystal structures of loxapine, clozapine, and HUF-2046 monohydrate {2-chloro-11-(4-methylpiperazin-1-yl)dibenzo[*b,f*][1,4]oxazepine, 8-chloro-11-(4-methylpiperazin-1-yl)dibenzo[*b,e*][1,4]diazepine, and 2-chloro-11-(4-methylpiperazin-1-yl)dibenzo[*b,e*][1,4]-diazepine monohydrate}, 1415.
- Petterson**, Roger C., and **Kim**, Hyeong L. X-Ray structures of hymenoxon and hymenolane: pseudoguaianolides isolated from *Hymenoxys odorata* DC. (bitterweed), 1399.
- Phillips**, Glyn O. See **Davies**, A. Keith, 25.
- Pierens**, Raymond K. See **Aroney**, Manuel J., 1854, and **Calderbank**, Kingsley E., 1645.
- Pietra**, Francesco. See **Festa**, Crescenzo, 180.
- Pignataro**, Salvatore. See **Fringuelli**, Francesco, 276.
- Pilkington**, James W., and **Waring**, Anthony J. Cyclohexadienones. Use of the dienone-phenol rearrangement in measuring migratory aptitudes of alkyl groups, 1349.
- Pitt**, Colin G., **Bursey**, Maurice M., and **Chatfield**, Dale A. The relative gas-phase proton affinities and polarisabilities of alkyl and silyl ethers, 434.
- Pittman**, Charles U., Jun., **Bong Kim**, Ng, **Quock** Y., and **Kispert**, Lowell D. Theoretical study of charge distribution in the benzoyl and alkynoyl cations, 621.

- Poignant**, Serge. See **Martin**, Maryronne L., 182.
Pommier, Jean-Claude. See **Davies**, Alwyn G., 1719.
Poncioni, Bruno. See **Lucken**, Edwin A. C., 777.
Posner, Tamar B., and **Hall**, C. Dennis. ^1H and ^{13}C nuclear magnetic resonance spectra of benzylidene-malononitriles: a method for the determination of σ^+ substituent constants, 729.
Pospisil, Jan. See **Simonyi**, Miklos, 1913.
Powell, H. Marcus. See **Mann**, Frederick G., 1383.
Power, Leslie F., **Turner**, Kenneth E., and **Moore**, Francis H. Crystal and molecular structure of 3-mercapto-1,3-diphenylprop-2-en-1-one by X-ray and neutron diffraction, 249.
Pra Mauro, Edmondo. See **Pelizzetti**, Ezio, 1651.
Pratt, John C. See **Brown**, David R., 838.
Puckett, Sherrill A., **Paul**, Iain C., and **Curtin**, David Y. Correlation of the loss of solvent with the crystal structure of a 1:1 solvate. Indanetrione 2-(*N*-*p*-*t*-butylbenzoyl-*N*-phenylhydrazone) acetone solvate, 1873.
Purrello, Giovanni. See **Bombieri**, Gabriella, 1404.

Q

- Queen**, Alan, and **Nour**, Takla A. Kinetics and mechanism of the acetate catalysed hydrolysis of 4-methoxyphenyl chloroformate and 4-methoxyphenyl fluoroformate in aqueous dioxan. Evidence for rate-determining attack of acetate ions on an intermediate mixed anhydride, 935.
Quick, Andrew, and **Rogers**, Donald. Crystal and molecular structure of (1*S*,3*S*,5*R*,7*S*,8*R*,9*R*)-9-*p*-bromobenzoyloxy-1,4,4,8-tetramethyltricyclo-[5.4.0.0^{3,5}]-undecane, 460.
 Crystal and molecular structure of parthenolide [4,5-epoxygermacra-1(10),11(13)-dien-12,6-olactone], 465.
Quock, Y. Ng. See **Pittman**, Charles U., 621.

R

- Rahim**, Abdur. See **Farooqi**, Jameel, 1921.
Ramanujam, V. M. Sadagopa, and **Trieff**, Norman M. Reduction of some ketones using sulphurated sodium borohydride (NaBH_2S_3): kinetics and mechanism, 1811.
Randall, Edward W. See **Gattegno**, Daniela, 1527.
Read, David M. See **Blackburne**, Ian D., 418, and **Ferguson**, Ian J., 1861.
Reddy, Madhusudana J. See **Verma**, Radhey S., 469.
Redshaw, Mavis. Chlorinated pyridine compounds: quantum chemical calculations and chlorine-35 nuclear quadrupole resonance frequencies, 1821.
Rees, David A. See **Gould**, Sheila E. B., 392.
Rees, John C. See **Holden**, Collette M., 1342.
Rees, John H., and **Ridd**, John H. Inductive and field effects in aromatic substitution. Part VII. Hydrogen-isotope exchange in a bridged anthracene derivative carrying a nitrogen pole, 285.
Rees, John H., **Ridd**, John H., and **Ricci**, Alfredo. Inductive and field effects in aromatic substitution. Part IX. Assessment of results, 294.
Rees, Norman H. See **Evans**, Alwyn G., 859.
Regan, Noel. See **Spillane**, William J., 1424.
Ricci, Alfredo. See **Colonna**, Francesco Paolo, 306, **Danieli**, Roberto, 290, and **Rees**, John H., 294.

- Richardson**, Frederick S. See **Kreigh**, Harry, 1674, and **Strickland**, Robin W., 1818.
Ricolleau, Gabriel. See **Martin**, Maryronne L., 182.
Ridd, John H. See **Danieli**, Roberto, 290, and **Rees**, John H., 285, 294.
Righetti, Pierpaolo. See **Tacconi**, Gianfranco, 150.
Rindone, Bruno. See **Galliani**, Guido, 1803.
Rittner, Roberto. See **Fabi**, Marino T., 16.
Rizvi, S. Q. Abbas. See **Arriau**, Jean, 1245.
Roberts, Brian P. See **Cooper**, John W., 808, **Davies**, Alwyn A., 1066, and **Davies**, Alwyn G., 1154.
Roberts, Paul J. See **Brauer**, David J., 532.
Roberts, Roger M. G. Kinetics and mechanism of addition of acids to olefins. Part I. Addition of acetic acid to cyclic and strained bicyclic olefins catalysed by trifluoromethanesulphonic acid. Part 2. Addition of trifluoroacetic acid to (+)-(*R*)-limonene in weakly polar media, 1183, 1374.
Robinson, Stephen R., **Webb**, Brian C., and **Wells**, Clifford H. J. Studies on nitroaromatic compounds. Part VII. A nuclear magnetic resonance study of the reaction of [$^3\text{H}_3$]methoxide ion with some polynitrodimethylnaphthalenes, 273.
Robinson, Stephen R., **Wells**, Clifford H. J., **Turner**, Robert B., and **Todd**, John F. J. Positive and negative ion mass spectra of nitro- and polynitro-1,5- and -2,3-dimethylnaphthalenes, 1363.
Roch, Gilberto. See **Arriau**, Jean, 1245.
Rochester, Colin H. See **Eley**, Daniel D., 1292.
Rogers, Donald. See **Quick**, Andrew, 460, 465.
Rolla, Franco. See **Landini**, Dario, 1288.
Rondelez, Daniel, and **Boué**, Stéphane. Mechanistic investigations in the photochemistry of acyclic conjugated dienes. Significance of the [1,5]sigmatropic shifts of hydrogen, 647.
Ronzini, Ludovico. See **Fiandanese**, Vito, 1303.
Rooney, John J. See **Akhtar**, M. Nasseem, 595, 1412.
Roussel, Christian. See **Gentric**, Emilie, 565.
Row, Tayur N. Guru, and **Venkatesan**, Kailasam. Crystal and molecular structure of 15-bromolongibornane-8,9-dione, 1716.
Rubinraut, S. See **Feit**, B. A., 253.
Rumney, Trevor G. See **Hamdi**, Suheila T., 846.
Rydon, H. N. See **Maia**, Hernani L., 761.

S

- Sacerdoti**, Michele. See **Dondoni**, Alessandro, 1036.
Sadd, John S. See **Lindsay Smith**, John R., 741.
Sakaguchi, Hiroshi, **Niki**, Etsuo, and **Kamiya**, Yoshio. Decomposition of hydroperoxides by boric acid anhydride in solution. Electrophilic hydroxylation of the solvent, 855.
Sakurai, Hiroshi. See **Inoue**, Yoshihisa, 569.
Salvetti, Franco. See **Lunazzi**, Lodovico, 1796.
Sammes, Michael P., and **Harlow**, Richard L. Intramolecular hydrogen bonds involving polar carbon-hydrogen bonds: infrared and ^1H nuclear magnetic resonance spectra of some cyanomethyl and benzyl sulphones, 1130.
Sammes, Michael P., **Harlow**, Richard L., and **Simonsen**, Stanley H. Crystal structure, and infrared and proton magnetic resonance spectra of 3-cyanomethylsulphonyl-2-morpholinocyclohexene: evidence for a C-H \cdots N intramolecular hydrogen bond, 1126.

- Sandall, John, P. B. See **Bolton**, Roger, 1541, 1545.
- Santucci, Sergio. See **Festa**, Crescenzo, 180.
- Sasvári, Kálmán. See **Cser**, Ferenc, 478.
- Satchell, Derek P. N. See **Hall**, Alan J., 1274, 1278.
- Satchell, Rosemary S. See **Berry**, David, 89, and **Bukka**, Krishna, 1058.
- Sato, Takeo, and **Takemura**, Tetsuo. Medium-sized cyclophanes. Part XVIII. Iodine-induced cycloisomerization of methyl-, ethyl-, and isopropyl-[2.2]metacyclophanes. π -Basicity and additional strain energy terms as controlling factors, 1195.
- Sayo, Hiroteru. See **Masui**, Masaichiro, 1180.
- Schaasberg-Nienhuis, Zwaantje R. H. (Mrs.). See **Cerfontain**, Hans, 1780.
- Scarlata, Giuseppe. See **Bigotto**, Adriano, 1845, and **Chachaty**, Claude, 1234.
- Schnell, Andrew, **Dawber**, J. Graham and **Tebby**, John C. The mechanism of hydrolysis of phosphonium ylides, 633.
- Schofield, Kenneth. See **Moodie**, Roy B., 1089.
- Schroeder, Leland R. See **Wallace**, Jerry E., 1632.
- Schuchmann, Heinz-Peter, and **von Sonntag**, Clemens. Radiation chemistry of acetals. Part I. Photolysis (λ 185 nm) of formaldehyde dimethyl acetal in the liquid phase, 1408.
- Schwartz, Helmut. See **Levsen**, Karsten, 1231.
- Schwartz, Lowell M. See **Gelb**, Robert I., 930.
- Scrimgeour, Sheelagh N. See **Foster**, Roy, 682.
- Scott, Francis L. See **Hegarty**, Anthony F., 242, and **Spillane**, William J., 1424.
- Scott, Stephen P. See **Holden**, Collette M., 1342.
- Sealy, Roger C. See **Bowers**, P. R., 915, and **Gilbert**, Bruce C., 1040.
- Sebastiani, Giovanni V. See **Baciocchi**, Enrico, 266.
- Seconi, Giancarlo. See **Pedulli**, Gian Franco, 173, and **Eaborn**, Colin, 925, 1857.
- Seger, Georg. See **Korenstein**, Raphael, 1536.
- Semprini, Elvio. See **Sorriso**, Salvatore, 374.
- Seno, Manabu. See **Kise**, Hideo, 1869.
- Sgarabatto, Paolo. See **Colonna**, Martino, 309, 317.
- Sharp, John T. See **Bell**, Elizabeth, 588, and **Cadogan**, J. I. G., 583.
- Shastri, Vyayendra R. See **Verma**, Radhey S., 469.
- Sheldrick, William S. Crystal structure of octaethyl-xanthoporphinogen dihydrate, 453.
Crystal and molecular structure of biliverdin dimethyl ester, 1457.
- Sheppard, Deri. See **Evans**, Alwyn G., 492, 1166.
- Sheppard, Peter N. See **Maslen**, Edward N., 263.
- Sherrington, David C. See **Goka**, Anthony M., 329.
- Shields, Kelvin G. See **Smith**, Graham, 796.
- Shinkai, Seiji, and **Kunitake**, Toyoki. Nucleophilic ion pairs. Part II. Micellar catalysis of proton abstraction by hydroxamate anions, 980.
- Shiro, Motoo, **Hagishita**, Sanji, and **Kuriyama**, Kooru. Crystal and molecular structures of (-)-7,7'-dibromo-3,3',3',5,5'-hexamethyl-1,1'-spirobi-indane-6,6'-diol and (\pm)-3,3',3',5,5'-hexamethyl-1,1'-spirobi-indane, 1447.
- Shorter, John. See **Burden**, Alan G., 1627, and **Chapman**, Norman B., 847.
- Silla, Estanislao, **Bertran**, Juan, **Canadell**, Enric, and **Fernandez-Alonso**, J. I. The role of intermediate complexes in benzofuran protonations, 1789.
- Sim, George A. See **Cox**, Philip J., 110, 990, and **Guy**, Michael H. P., 1917.
- Simándi, László I. See **Jáky**, Miklós, 939.
- Simonetta, Massimo. See **Mugnoli**, Angelo, 822, 1831.
- Simonyi, Miklos, **Kardos**, Julianna, **Fitos**, Ilona, **Kovacs**, Ilona, and **Pospisil**, Jan. Role of hydrogen bonding in the mechanism of hydrogen atom abstraction from alkyl-substituted phenols by polyvinyl acetate radicals, 1913.
- Singh, Shyam. See **Harris**, Margaret M., 793.
- Sinnott, Michael L. See **Cocker**, David, 618.
- Sioli, Giancarlo. See **Montoneri**, Enzo, 1784.
- Skowronska, Aleksandra. See **Davies**, Alwyn G., 1154.
- Slifkin, Michael A. See **Korenstein**, Rafi, 438.
- Smith, John R. Lindsay, and **Masheded**, David. Amine oxidation. Part IX. The electrochemical oxidation of some tertiary amines: the effect of structure on reactivity, 47.
- Smith, John R. Lindsay, and **Mead**, Leonard A. V. Amine oxidation. Part XI. Oxidation of some substituted tertiary alkylamines and some *NN*-dimethylphenethylamines with potassium hexacyanoferrate(III), 1172.
- Smith, John R. Lindsay, and **Sadd**, John S. Amine oxidation. Part X. The oxidation of some 4-substituted *NN*-dimethylbenzylamines and a selection of other amines with 1-chlorobenzotriazole, 741.
- Smith, Graham, **Kennard**, Colin H. L., and **White**, Alan H. Insecticides. Part V. Crystal structures of β -(*eeeeee*)-1,2,3,4,5,6-hexachlorocyclohexane and γ -(*aaa-eee*)-1,2,3,4,5,6-hexachlorocyclohexane (Lindane) (redeterminations), 614.
Herbicides. Part I. Crystal structure of 2,4-D (2,4-dichlorophenoxyacetic acid), 791.
- Smith, Graham, **Shields**, Kelvin G., and **Kennard**, Colin H. L. Acaricides. Part I. Crystal structure of pentac[synclinal 1,1,2,2',3,3',4,4',5,5'-decachloro-1,1'-bis(cyclopenta-2,4-dienyl)], 796.
- Smith, Graham. See also **Kennard**, Colin H. L., 302.
- Smith, Martin A. R. See **von Massow**, Friedrich, 977.
- Smith, Michael J. See **Holt**, Arthur, 952.
- Smith, Robert A. See **Frey**, Henry M., 1865.
- Snowden, Roger L. See **Chadwick**, Derek J., 1, 597.
- Solan, Vishnu. See **Blackburn**, G. Michael, 1452.
- Sørensen, Paul E. See **Bell**, Ronald P., 1594.
- Sorriso, Salvatore, **Stefani**, Ferdinanda, **Semprini**, Elvio, and **Flamini**, Alberto. Three-membered rings. Part I. Semiempirical calculations of the molecular conformation of compounds of the type $\text{Ph}\overline{\text{C}}\text{H}\cdot\text{X}\cdot\text{CH}_2$ (X = CH₂, O, S, NH, or CCl₂), 374.
- Sorriso, Salvatore, and **Støgård**, Åse. Preferred molecular conformations of benzoyl(diazo)phenylmethane and 1-benzoyl-1-diazoethane by semiempirical molecular orbital calculations, 538.
- Sorriso, Salvatore. See also **Palliani**, Giulio, 707.
- Spagna, Riccardo. See **Bellucci**, Giuseppe, 1213.
- Spagnolo, Piero. See **Testaferri**, Lorenzo, 662.
- Spinelli, Domenico, **Noto**, Renato, and **Consiglio**, Giovanni. Linear free energy *ortho*-correlations in the thiophen series. Part II. Acid dissociation of some 3-substituted thiophen-2-carboxylic acids in water. Part III. The kinetics of piperidino-substitution of some 3-X-5-nitro-2-thienyl phenyl sulphones in methanol, 747, 1495.
- Spinelli, Domenico, **Noto**, Renato, **Consiglio**, Giovanni, and **Storage**, Alba. Linear free energy *ortho*-correlations in the thiophen series. Part IV. Kinetics of alkaline hydrolysis of some methyl 3-substituted thiophen-2-carboxylates in aqueous methanol, 1805.
- Spillane, William J., **Regan**, Noel, and **Scott**, Francis L.

- Kinetics and mechanism of the acid-catalysed hydrolysis of *N*-methyl-*N*-phenylsulphamate, 1424.
- Sprake**, John M., and **Watson**, Keith D. Stereochemistry of ethyl octahydro-3-methylindolizine-2-carboxylate, 107.
- Sprangers**, Wilhelmus J. J. M., and **Louw**, Robert. Carbonylation of organomagnesium compounds: catalysis by hexamethylphosphoric triamide, 1895.
- Spunta**, Giuseppe. See **Lunazzi**, Lodovico, 1121.
- Srinivasan**, R., and **Stewart**, Ross. General-base-catalysed proton exchange in 1,3-dimethyl-2-iminoimidazolidin-4-one hydriodide, 674.
- Stadel**, Paul, **Jensen**, William, **Worman**, James, and **Jacobson**, Robert A. Crystal structure of *NN'*-bis-*p*-bromophenyl-2,2,4,4-tetramethylcyclobutane-1,3-dimine, 536.
- Stefani**, Ferdinanda. See **Sorriso**, Salvatore, 374.
- Stewart**, Ross. See **Srinivasan**, R., 674.
- Støgård**, Åse. See **Sorriso**, Salvatore, 538.
- Stokhuizen**, Rolf, and **Chieh**, Chung. Structure and conformation of ethyl 6-*O*-benzoyl-4-iodo-2,3,4-trideoxy- α -D-hex-2-enopyranoside, 481.
- Storace**, Alba. See **Spinelli**, Ocmenco, 1805.
- Street**, Joan M. See **Emsley**, James W., 805.
- Strickland**, Robin W., and **Richardson**, Frederick S. Chiroptical properties of cyclo-L-cystine, 1818.
- Sugiyama**, Mikiko. See **Takenaka**, Shunsuke, 555.
- Sugiyama**, Yukio. See **Kise**, Hideo, 1869.
- Svanholm**, Ulla, and **Parker**, Vernon D. Kinetics and mechanisms of the reactions of organic cation radicals and dications. Part V. Kinetics of thermodynamically unfavourable electron transfer reactions between cation radicals and aromatic compounds, 1567.
- Symons**, Martyn C. R. Unstable intermediates. Part CLXIII. Methyl radical anion adducts: radiation effects on dimethyl sulphoxide, dimethyl sulphone, and their solutions in water and methanol, 908.
- Symons**, Martyn C. R. See also **Mishra**, Shuddhodan, P., 21.

T

- Tacconi**, Gianfranco, **Maggi**, Lucia Dacrema, **Righetti**, Pierpaolo, **Desimoni**, Giovanni, **Azzolina**, Ornella, and **Ghislandi**, Victor. (*Z*)- and (*E*)-3-Alkylidene-1,3-dihydroindol-2-ones: influence of configuration on the transmission of the inductive effect to the carbonyl group, 150.
- Taira**, Zenei, **Watson**, William H., and **Dominguez**, Xorge A. Structure of icetexone, a diterpene quinone from *Salvia ballotaeflorae*, 1728.
- Takamuku**, Setsuo. See **Inoue**, Yoshihisa, 569.
- Takemura**, Tetsuo. See **Sato**, Takeo, 1195.
- Takenaka**, Shunsuke, **Sugiyama**, Mikiko, and **Tokura**, Niichiro. Ion-pair aggregation of a long-chain carboxylic acid and an amine in benzene studied by induced circular dichroism, 555.
- Takeuchi**, Hiroshi, **Kinoshita**, Kazunori, **Abdul-Hai**, Syed Mohammad, **Mitani**, Michiharu, **Tsuchida**, Teruko, and **Koyama**, Kikuhiko. Stabilization of singlet ethoxy-carbonylnitrene by 1,4-dioxan, 1201.
- Talbot**, Robert J. E. See **Bethell**, Donald, 55.
- Tanaka**, Masahiro. See **Kitano**, Hiromi, 1074.
- Tasumi**, Mitsuo. See **Inagaki**, Fuyuhiko, 167.
- Taticchi**, Aldo. See **Fringuelli**, Francesco, 276.
- Taylor**, Roger, and **Thorne**, Melanie P. Pyrolysis of *t*-butyl *N*-arylcabamates in the gas phase, and correlation of the elimination rates with those obtained in solution, 799.
- Taylor**, Roger. See also **Le Guen**, M. M., 559, and **Norfolk**, Susan de Burgh, 280.
- Tebby**, John C. See **Schnell**, Andrew, 633.
- Tedder**, John M. See **McMurray**, Norman, 63, and **Ody**, Keith, 521.
- Tel**, Rense M., and **Engberts**, Jan B. F. N. Folded conformations. Part VII. Crystal and molecular structure of *NN'*-[bis-(α -tosylbenzyl)]urea acetone solvate. Comparison between solution and solid-state conformation, 483.
- Temer**, Don J. See **Lewis**, Edwin A., 125.
- Testaferri**, Lorenzo, **Tiecco**, Marcello, **Spagnolo**, Piero, **Zanirato**, Paolo, and **Martelli**, Giorgio. Structural effects on the reactivity of carbon radicals in homolytic aromatic substitutions. Part III. Reaction of the 1-adamantyl radical with benzene derivatives, 662.
- Teysie**, Philippe. See **Verstraelen**, Leon, 1285.
- Thomas**, Eric J. See **Fleming**, Ian, 7.
- Thomas**, Robert. See **Elvidge**, John A., 353, and **Parkinson**, Gordon M., 836.
- Thompson**, Norris J. See **Bjergo**, Johannes, 606.
- Thomson**, Ronald H. See **Baldry**, Peter J., 76.
- Thorne**, Melanie P. See **Taylor**, Roger, 799.
- Tibbetts**, M. S. See **Kartha**, Gopinath, 717.
- Ticca**, Antonello. See **Lunazzi**, Lodovico, 1121.
- Tiecco**, Marcello. See **Pedulli**, Gian Franco, 946, and **Testaferri**, Lorenzo, 662.
- Tinnemans**, Alois H. A., and **Laarhoven**, Wim H. Photocyclisations of 1,4-diarylbut-1-en-1-yne. Part I. Synthesis and spectroscopic properties of 1,4-diarylbutenyne. Part II. Mechanism of the reaction. Part III. Scope and limitations of the reaction, 1104, 1111, 1115.
- Tiripicchio**, Antonio. See **Coghi**, Leandro, 1808.
- Titchmarsh**, David M. See **Dodd**, David, 1261.
- Todd**, John F. J. See **Robinson**, Stephen R., 1363.
- Todesco**, Paolo E. See **Bartoli**, Giuseppe, 1371, and **Bosco**, Marcella, 398.
- Tokura**, Niichiro. See **Takenaka**, Shunsuke, 555.
- Tomaselli**, Gaetano A. See **Maccarone**, Emanuele, 906.
- Tonellato**, Umberto. Catalysis of ester hydrolysis by cationic micelles of surfacants containing the imidazole ring, 771.
- Topsom**, Ronald D. See **Brownlee**, Robert T. C., 1486.
- Tori**, Kazuo. See **Toubiana**, Raoul, 1881.
- Toubiana**, Raoul, **Toubiana**, Marie-Josephe, **McPhail**, Andrew T., **Miller**, Richard W., and **Tori**, Kazuo. Structures and conformations of the fourteen-membered ring diterpene ovatodioidide and its acid cyclization product: nuclear Overhauser effect studies in solution and X-ray crystal structure analyses of ovatodioidide and ovatodiolic acid, 1881.
- Toubiana**, Marie-Josephe. See **Toubiana**, Raoul, 1881.
- Trachtman**, Mendel. See **George**, Philip, 1222.
- Trieff**, Norman M. See **Ramanujam**, V. M. Sudagopa, 1811.
- Troisi**, Luigi. See **Bosco**, Marcella, 398.
- Truter**, Mary R. See **Hanson**, Ian R., 972.
- Tse**, Chi-sang. See **Mak**, Thomas C. W., 1169.
- Tse**, John S. See **Mak**, Thomas C. W., 1169.
- Tsuchida**, Teruko. See **Takeuchi**, Hiroshi, 1201.
- Turchi**, Ignatius J. See **Dewar**, Michael J. S., 548.
- Turner**, John L. See **Hearn**, Milton T. W., 1027.
- Turner**, Kenneth E. See **Power**, Leslie F., 249.
- Turner**, Michael F. See **Cook**, David S., 1379.
- Turner**, Robert B. See **Robinson**, Stephen R., 1363.

U

- Udris**, Janos, and **Williams**, Andrew. Proteolytic enzymes: lipophilic binding sites for specific and non-specific substrates of α -chymotrypsin, 686.
- Ueda**, Ayako. See **Masui**, Masaichiro, 1180.
- Ueda**, Chihiro. See **Masui**, Masaichiro, 1180.
- Ueda**, Nobuhiko. See **Ueji**, Shinichi, 178.
- Ueji**, Shinichi, **Ieda**, Nobuhiko, and **Kinugasa**, Toshio. Infrared spectroscopic study of the interaction between 2,6-diarylphenols and alkyl cyanides, 178.
- Ueji**, Shinichi. See also **Kinugasa**, Toshio, 1663.
- Utley**, James H. P. See also **Coleman**, James P., 879, **Harkes**, Geoffrey E., 1709, and **Holman**, Richard J., 884.

V

- van Rossum**, Anton J. G., and **Nivard**, Rutger J. F. Mechanism of the electrophilic iodination of 1,3-diaryllenes, 1322.
- Vayjooee**, Mohammad Hassan Baghal. See **Blake**, Peter G., 986, 988, 1533.
- Venkatesan**, Kailasam. See **Narasimhamurthy**, Mathur R., 768, and **Row**, Tayur N. Guru, 1716.
- Veracini**, C. Alberto. See **Danieli**, Roberto, 19, and **Lunazzi**, Lodovico, 1796.
- Verma**, Radhey S., **Reddy**, Madhusudana J., and **Shastry**, Vyayendra R. Kinetic study of homogeneous acid-catalysed oxidation of certain amino-acids by potassium permanganate in moderately concentrated acidic media, 469.
- Verstraelen**, Leon, **Lalmand**, Maurice, **Hubert**, André J., and **Teyssié**, Philippe. Oxidation of cyclic hydrocarbons by cobalt(III) acetate, 1285.
- Vertommen**, Luc L. T. See **McMurray**, Norman, 63.
- Vofsi**, David. See **Halmann**, Mordehai, 1210.
- von Massow**, Friedrich, and **Smith**, Martin A. R. Indirect ^{13}C - ^1H coupling in asymmetrically trisubstituted benzenes: a carbon-13 nuclear magnetic resonance study, 977.
- von Sonntag**, Clemens. See **Schuchmann**, Heinz-Peter, 1408.
- Vidal**, Simone, **Court**, Jean, and **Bonnier**, Jane-Marie. Comparative behaviour of σ -complexes in phenylation of 4-methylpyridine by benzoyl peroxide in refluxing benzene, 497.
- Viertler**, Hans. See **Fabi**, Marino, T., 16.
- Viragh**, C. See **Bacaloglu**, I., 524.
- Vivarelli**, Piero. See **Pedulli**, Gian Franco, 173.

W

- Wakefield**, Basil J. See **Clark**, Jim, 73.
- Wall**, H. Michael. See **Chapman**, Norman B., 847.
- Wallace**, Jerry E., and **Schroeder**, Leland R. Koenigs-Knorr reactions. Part II. A mechanistic study of mercury(II) cyanide-promoted reactions of 2,3,4,6-tetra-O-methyl- α -D-glucopyranosyl bromide with cyclohexanol in benzene-nitromethane, 1632.
- Walsh**, Robin, and **Wells**, Jean M. The kinetics of reversible Diels-Alder reactions in the gas phase. Part II. Cyclopentadiene and ethylene, 52.

- Walton**, David R. M. See **Eaborn**, Colin, 1857.
- Walton**, John C. See **McMurray**, Norman, 63.
- Waring**, Anthony J. See **Pilkington**, James W., 1349.
- Waring**, Lionel C. See **Jennings**, W. Brian, 610.
- Waters**, William A. Formation of Baudisch complexes $[\text{Fe}^{\text{II}}(\text{CN})_5\text{RNO}]^{3-}$ from alkyl- and aryl-hydroxylamines and aquapentacyanoferrate(3-) anions, $[\text{Fe}^{\text{II}}(\text{CN})_5\text{-H}_2\text{O}]^{3-}$, 732.
- Watkin**, David J. See **Mann**, Frederick G., 1383.
- Watson**, K. D. See **Sprake**, John M., 107.
- Watson**, William H. See **Jaira**, Zenei, 1728.
- Weatherhead**, Richard H. See **Bigley**, David B., 592, 701, 704.
- Webb**, Brian C. See **Robinson**, Stephen R., 273.
- Weber**, Hans-Peter. See **Petcher**, Trevor J., 1415.
- Wechsler**, Pablo S., and **Fuchs**, Benzion. Steric effects in five-membered rings. Part VI. Kinetics of oxidation of β -substituted cyclopentanol by chromium(VI) oxide, 943.
- Weinstein**, Meir. See **Muszkat**, Karol A., 1072.
- Weiss**, Raymond. See **Metz**, Bernard, 423.
- Wells**, Clifford H. J. See **Robinson**, Stephen R., 273, 1363.
- Wells**, Jean M. See **Walsh**, Robin, 52.
- Weston**, John B. See **Moodie**, Roy B., 1089.
- White**, Allan H. See **Maslen**, Edward, N., 263, **Cannon**, Jack R., 271, **Kennard**, Colin H. L., 302, **Smith**, Graham, 614, 791, and **Ghisalberti**, Emilio L., 1300.
- White**, David N. J. See **Guy**, Michael H. P., 1917.
- Whiting**, Donald A. See **Cahill**, Rosalind, 1312.
- Whiting**, Mark C. See **Astin**, K. Brian, 1157, 1160, **Maskill**, Howard, 1462, and **Muir**, David M., 388.
- Whittaker**, David. See **Holden**, Collette M., 1342, 1345.
- Wight**, Alistair W. See **Gould**, Sheila E. B., 392.
- Wilkinson**, Rodney G. See **Bethell**, Donald, 55.
- Williams**, Andrew. See **Douglas**, Kenneth T., 515, **Hawkins**, Hilary C., 723, **Loran**, John S., 1444, **Naylor**, Richard A., 1908, and **Udris**, Janos, 686.
- Williams**, Brent C. See **Foster**, Roy, 682.
- Williams**, D. Lyn H. Denitrosation of *N*-methyl-*N*-nitrosotoluene-*p*-sulphonamide in acid solution, 1838.
- Williams**, D. Lyn H. See also **Biggs**, Ian D., 601, 691, and **Park**, James R., 828.
- Williams**, Dudley H. See **Bowen**, Richard D., 1479.
- Williams**, John O. See **Parkinson**, Gordon M., 836.
- Willis**, Anthony C. See **Cannon**, Jack R., 271, **Ghisalberti**, Emilio L., 1300, and **Maslen**, Edward N., 263.
- Willison**, Michael J. See **Crampton**, Michael R., 155, 160, 901.
- Wilson**, Michael A., and **Woodgate**, Paul D. Mechanisms of addition. Part II. The stereochemistry of addition of bromine and bromine acetate to some phenyl-substituted olefins, 141.
- Winkler**, Fritz. See **Narasimhamurthy**, Mathur K., 768.
- Wladsilaw**, B. See **Fabi**, Marino T., 16.
- Wolf**, Robert. See **Koenig**, Max, 955.
- Wolkoff**, Peder. Fragmentation paths of hydrazonyl halides upon electron impact: simulation of nitrilimine formation, 921.
- Woodgate**, Paul D. See **Wilson**, Michael A., 141.
- Worman**, James. See **Stadel**, Paul, 536.
- Wray**, Victor. The carbon-13 nuclear magnetic resonance spectra of the deoxyfluoro-D-glucoses, 2-deoxy-2-fluoro-D-mannose, and 4-deoxy-4-fluoro-D-galactose. Orientation and substituent effects upon $^2J_{\text{FC}}$, 1598.

Wray, Victor, and **Lincoln**, David N. Additivity of substituent effects upon proton-fluorine coupling constants in polysubstituted fluorobenzenes, 1307.

Y

Yamamoto, Takashi. See **Okamoto**, Kunio, 1617.

Yanai, Shaul. See **Halmann**, Mordehai, 1210.

Yates, George B. See **Hawkes**, Geoffrey E., 1709.

Young, Ronald N. See **Greenacre**, Geoffrey C., 874, 1636.

Yousif, Ghariballa. See **El Desouqui**, Osman M. H., 357, 359.

Z

Zakhary, Rashed F. See **Awad**, William I., 128.

Zambonelli, Luigi. See **Bellucci**, Giuseppe, 1213.

Zanirato, Paolo. See **Pedulli**, Gian Franco, 946, and **Testaferri**, Lorenzo, 662.