

INDEX OF AUTHORS, 1947.

A.

- Albert, A.**, acridine syntheses and reactions. Part III. Synthesis of amino-acridines from formic acid and amines, 244.
- Albert, A., Mills, J. A., and Royer, R.**, benzylamine analogues of chemotherapeutic diamidines, 1452.
- Alexander, A. E.**, some applications of surface chemistry to problems in colloid science, 1422.
- Anderson, D., Bedwell, (Miss) M. E., and Le Fèvre, R. J. W.**, magnetic optical rotatory powers and diamagnetic susceptibilities of the isomeric aromatic diazocyanides, 457.
- Anderson, D., Le Fèvre, R. J. W., and Savage, J.**, the structures of Hantzsch's isomeric diazocyanides, 445.
- Arnstein, H. R. V., and Cook, A. H.**, production of antibiotics by fungi. Part III. Javanicin; an antibacterial pigment from *Fusarium javanicum*, 1021.
- Arthur, J. R., and Linnett, J. W.**, the interchange of heat between a gas stream and solid granules. Part I., 416.
- Ashley, J. N., Buchanan, G. L., and Easson, A. P. T.**, some products formed in the reaction of *p*-acetamidobenzene-sulphonyl azide with pyridine, 60.
- Asker, (Miss) W.** See Schönberg, A.
- Atherton, F. R., and Todd, A. R.**, studies on phosphorylation. Part III. Reaction of phosphites with polyhalogen compounds in presence of bases and its application to the phosphorylation of alcohols, 674.
- Atkinson, C. M., and Simpson, J. C. E.**, cinnolines. Part X. The preparation of 4-chloro-2-aminoacetophenone and related 4-hydroxycinnolines. Part XII. 4-Methylcinnolines. Part XIV. *N*-Oxides of 4-arylcinnolines; conversion of 4-substituted cinnolines into indoles, 232, 808, 1649.
- Awad, W. I.** See Schönberg, A.

B.

- Baddar, F. G.**, phenylpropionic acids. Part I. The dimerisation of *o*-methoxyphenylpropionic acid, 224.
- Baddiley, J., and Todd, A. R.**, nucleotides. Part I. Muscle adenylic acid and adenosine diphosphate, 648.
- Bader, H.** See Jones, E. R. H.
- Badger, G. M.**, oxidations and dehydrogenations with selenium dioxide, 764.
- polycyclic aromatic hydrocarbons. Part XXXII. 2'-Methoxy- and 2'-methoxy-9:10-dimethyl-1:2-benzanthracene, 940.
- Badger, G. M., Cook, J. W., and Crosbie, G. W.**, the chloromethylation of naphthalene and of tetralin, 1432.
- Badger, G. M., Cook, J. W., and Vidal, (Miss) W. P.**, activating influence of *para*-groups on the lability of choline in chlorobenzenes, 1109.
- Baker, J. W.**, note on "syntheses in the indole series. Part II.," 558.
- Baker, J. W., and Holdsworth, J. B.**, the mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents. Part XIII. Kinetic examination of the reaction of aryl isocyanates with methyl alcohol, 713.
- Balaban, I. E., and Sutcliffe, F. K.**, 1:1:1-trichloro-2:2-di-(4-*o*-carbomethoxymethoxyphenyl)ethane, 848.
- Barakat, M. Z.** See Schönberg, A.
- Barany, H. C., and Pianka, M.**, some new condensation products of ethyl cyclopentanone-2-carboxylate with aromatic amines, 1420.
- Barber, H. J., Gregory, (Miss) P. Z., Major, F. W., Slack, R., and Woolman, A. M.**, the search for chemotherapeutic amidines. Part V. Phenanthridines, 84.
- Barber, H. J., and Slack, R.**, the search for chemotherapeutic amidines. Part IV. Two polyamidines, 82.

- Barber, H. J., and Wragg, W. R.**, chemistry of synthetic antimalarials. Part IV. Hydrazine hydrolysis and radical exchange reactions of *N*-substituted phthalimides in relation to the constitution of the antimalarial R.63, 1331.
- Barker, G. R., Farrar, (Mrs.) K. R., and Gulland, J. M.**, the constitution of yeast ribonucleic acid. Part X. Nature of the carbohydrate radicals, 21.
- Barltrop, J. A.**, syntheses in the morphine series. Part I. Derivatives of bicyclo[3:3:1]-2-azanonane, 399.
- Barnett, (Miss) J. W., Robinson, F. A., and Wilson, (Miss) B. M.**, preparation of iodinated mono- and di-phenyl-acetic and -propionic acids, 202.
- Barrow, R. F., Danby, C. J., Davoud, J. G., Hinshelwood, C. N., and Staveley, L. A. K.**, the redistribution and desorption of adsorbed gases, 401.
- Barton, A. W. H., and McClelland, E. W.**, the formation of hydroxythionaphthens by the interaction of benzene-sulphonylbenzothiazolone and substances containing a reactive methylene group, 1574.
- Basford, F. R., Curd, F. H. S., Hoggarth, E., and Rose, F. L.**, synthetic antimalarials. Part XXI. 4-Arylamino-6-aminoalkylaminopyrimidines, 1354.
- Baxter, G. P., Guichard, M., Hönlgschmid, O., and Whytlaw-Gray, R.**, twelfth report of the Committee on Atomic Weights of the International Union of Chemistry, 980.
- Baxter, G. P., Guichard, M., and Whytlaw-Gray, R.**, thirteenth report of the Committee on Atomic Weights of the International Union of Chemistry, 983.
- Baxter, R. A., Newbold, G. T., and Spring, F. S.**, pyrazine derivatives. Part I. 2-Hydroxy-3:6-dimethylpyrazine, 370.
- Baxter, R. A., and Spring, F. S.**, application of the Hofmann reaction to the synthesis of heterocyclic compounds. Part IV. The synthesis of 9-*d*-xylopyranosidoxanthine, 378.
- pyrazine derivatives. Part III. Conversion of diketo-piperazines into pyrazine derivatives; synthesis of 2-hydroxy-3:6-di-*sec*-butylpyrazine from isoleucine, 1179.
- Beavan, G. H., and Jones, J. K. N.**, pectic substances. Part V. The molecular structure of strawberry and apple pectic acids, 1218.
- Bedwell, (Miss) M. E.**, magnetic studies on polymerisation. Part I. Magnetic optical rotatory powers and diamagnetic susceptibilities of certain polymethyl methacrylates, 1350.
- Bedwell, (Miss) M. E.** See also Anderson, D.
- Bell, A. E., and Madgin, W. M.**, viscosities of aqueous solutions of amino-acids, with some conductivity values, 74.
- Bell, D. J.**, the separation of *d*-fructose from other natural sugars as its 2:3:4:5-diacetone and 1:2-monoacetone derivatives; observations on the behaviour of acetone derivatives of monosaccharides towards cold decinormal sulphuric acid, 1461.
- Bell, R. P., and Rybicka, (Mrs.) S. M.**, acid-base catalysis in non-aqueous solvents. Part X. The isomerisation of methyl mesityl oxide oxalate in chlorobenzene solution at 99°, 24.
- Bennett, G. M., Brand, J. C. D., James, D. M., Saunders, T. G., and Williams, G.**, nitration in sulphuric acid. Part IV. Kinetics of the nitration of 2:4-dinitrotoluene. Part V. Nitration of 2:4-dinitrotoluene in a two-phase system, 474, 1185.
- Bergmann, E.** See Weizmann, C.
- Bergmann, F., and Japhé, H.**, bromination of dimethoxystilbenes, 1450.
- Berry, P. A., and Macbeth, A. K.**, β -phellandrene tetrabromide, 1039.
- Birch, A. J.**, reduction by dissolving metals. Parts IV. and V., 102, 1642.
- 2-cyclohexenones from 2-methylpyridines, 1270.
- Birch, S. F., Oldham, W. J., and Johnson, E. A.**, oxidation of [2:2:1]bicycloheptene-2 (norbornylene), 818.

- Bircumshaw, L. L., and Everdell, M. H.**, the kinetics of the reaction between copper and iodine in various solutions. Part II. Solutions of iodine in organic solvents, 1119.
- Blackie, J. J.**, obituary notice of, 432.
- Bloomfield, G. F.**, the reaction of sulphur and sulphur compounds with olefinic substances. Part III. The reaction of sulphur with squalene. Part IV. The thermal decomposition of organic polysulphides, and its contribution to the sulphur-olefin reaction, 1546, 1547.
- Boon, W. R.**, respiratory stimulants. Part I. Fully-substituted ureas derived from ω -alkylenediamines, 307.
- Booth, A. D., and Llewellyn, F. J.**, the crystal structure of pentaerythritol tetranitrate, 837.
- Borrows, E. T., Hargreaves, (Mrs.) B. M. C., Page, J. E., Resuggan, J. C. L., and Robinson, F. A.**, preparation and properties of some long-chain aliphatic amines, 197.
- Borrows, E. T., and Holland, D. O.**, the chemistry of the pyrrocolines. Part V. The action of Grignard reagents and of iodine on 3-acetyl-2-phenylpyrrocoline. Part VI. The synthesis of pyrrocoline-2-carboxylic acid; a new route to pyrrocoline, 670, 672.
- Bowden, K., Heilbron, (Sir) I., Jones, E. R. H., and Sargent, K. H.**, researches on acetylenic compounds. Part XII. The preparation of conjugated diacetylenic glycols by the oxidative coupling of various types of ethynylcarbinols, 1579.
- Bowden, S. T.** See **Harris, J. I., and Jones, W. J.**
- Bowen, E. J., and Coates, E.**, solvent quenching of fluorescence, 105.
stereo-effects and van der Waals complexes, 109.
- Bowen, E. J., and Marsh, J. D. F.**, the photochemical dimerisation of acenaphthylene, 109.
- Boylard, E., and Shoppee, C. W.**, the metabolism of polycyclic compounds; the configuration of the dihydroxydihydroanthracenes produced from anthracene, 801.
- Bradbury, R. B., Hancox, N. C., and Hatt, H. H.**, the reaction between acetone and ammonia; the formation of pyrimidine compounds analogous to the aldoxans of Späth, 1394.
- Bradfield, A. E., Penney, (Miss) M., and Wright, (Miss) W. B.**, the catechins of green tea. Part I., 32.
- Bradford, L., Elliott, T. J., and Rowe, F. M.**, the Skraup reaction with *m*-substituted anilines, 437.
- Brand, J. C. D.** See **Bennett, G. M.**
- Braude, E. A., Jones, E. R. H., and Rose, G. G.**, studies in light absorption. Part IV. Nitro-olefins, 1104.
- Braude, E. A., Jones, E. R. H., and Stern, E. S.**, the preparation and ultra-violet light absorption of some substituted phenylpropenyl- and styrylmethyl-carbinols and 1-phenylbutadienes, 1087.
- Braude, E. A., and Stern, E. S.**, the kinetics of anionotropic rearrangement. Part VI. The effects of methyl, methoxy-, and halogen substituents attached to a phenyl group, 1096.
- Bremner, J. G. M., and Keays, R. K. F.**, the hydrogenation of furfuraldehyde to furfuryl alcohol and sylvan (2-methylfuran), 1068.
- Briggs, L. H., and Taylor, W. I.**, the constitution of copæne, 1338.
- Brown, B. R., and Hammick, D. L.**, the mechanism of the tautomeric change of 5-hydroxy-1:2:3-triazole-4-carboxylic esters into aliphatic diazo-compounds, 1384.
- Brown, F., and Jones, J. K. N.**, the quantitative separation of methylated sugars, 1344.
- Buchanan, G. L.** See **Ashley, J. N.**
- Buckley, G. D.**, aliphatic nitro-compounds. Part IX. Reaction of nitro-paraffins with ethylmagnesium bromide. Part X. Action of Grignard reagents on the α -nitro-olefins, 1492, 1494.
- Buckley, G. D., and Charlish, (Mrs.) J. L.**, aliphatic nitro-compounds. Part II. Conjugated nitro-dienes, 1472.
- Buckley, G. D., Charlish, (Mrs.) J. L., and Rose, J. D.**, aliphatic nitro-compounds. Part XVII. Reaction of nitro-paraffins with unsaturated sulphones, 1514.
- Buckley, G. D., and Ellery, E.**, aliphatic nitro-compounds. Part XI. Preparation of nitro-paraffins by 1:4-addition of organometallic halides to α -nitro-olefins, 1497.
- Buckley, G. D., and Elliott, T. J.**, aliphatic nitro-compounds. Part XV. Preparation of heterocyclic bases by reduction of 3-nitroalkyl cyanides, 1508.
- Buckley, G. D., Elliott, T. J., Hunt, F. G., and Lowe, A.**, aliphatic nitro-compounds. Part XIV. Preparation of 3-nitroalkyl cyanides by reaction of nitro-paraffins with unsaturated cyanides, 1505.
- Buckley, G. D., Heath, R. L., and Rose, J. D.**, aliphatic nitro-compounds. Part XII. Preparation and reduction of 2-nitroalkyl cyanides, 1500.
- Buckley, G. D., Hunt, F. G., and Lowe, A.**, aliphatic nitro-compounds. Part XIII. Preparation of 3-nitro-1-arylalkyl cyanides by interaction of arylmethyl cyanides and α -nitro-olefins, 1504.
- Buckley, G. D., and Scaife, C. W.**, aliphatic nitro-compounds. Part I. Preparation of nitro-olefins by dehydration of 2-nitro-alcohols, 1471.
- Bunn, C. W.**, some aspects of the chemistry of macromolecules. Part VII. The study of high-polymer structure by X-ray-diffraction methods, 297.
- Bunton, C. A., Minkoff, G. J., and Reed, R. I.**, a re-examination of the reported *m*-nitration of phenols and phenolic ethers, 1416.
- Burton, H., and Davy, W. A.**, the synthesis of some aryl pyridyl sulphones (arylsulphonylpyridines), 52.
- Buu-Hoi, N. P., and Lecocq, J.**, some $\alpha\beta$ -triarylacrylonitriles, $\alpha\beta$ -triarylacrylic acids, and their derivatives, 641.

C.

- Calvert, H. T.**, obituary notice of, 1707.
- Campbell, A., Houston, A. H. J., and Kenyon, J.**, the rearrangement of *l*-phenacyl- α -phenylethyldimethylammonium bromide, 93.
- Campbell, A., and Kenyon, J.**, the action of Grignard reagents on esters of optically active carboxylic acids, 436.
- Campbell, (Miss) I. G. M.**, the configuration of heterocyclic compounds. Part XI. Preparation of phenoxstibines and resolution of 10-*p*-carboxyphenyl-2-methylphenoxstibine, 4.
- Campbell, N. R., and Hunt, J. H.**, unsaturated lactones; some esters of aconic and coumalic acids, 1176.
- Carrington, H. C.**, thiohydantoins. Part I. Preparation of 5:5-disubstituted 2:4-dithiohydantoins from the corresponding ketones. Part II. Conversion of 5:5-disubstituted 2:4-dithiohydantoins into the corresponding monothiohydantoins, 681, 684.
- Carter, M. G. R., and Malkin, T.**, an X-ray and thermal examination of the glycerides. Part VIII. Glycerides of erucic, brassicid, oleic, and elaidic acids, 554.
- Cartwright, N. J., and Haworth, R. D.**, the constituents of natural phenolic resins. Part XXI. The structure of disoeugenol, 948.
- Catch, J. R., Cook, A. H., Graham, A. R., and Heilbron, (Sir) I.**, syntheses of some amino-acids, including methionine, 1609.
- Caverhill, A. R.** See **Waters, H. D. Č.**
- Chakravarti, R. N.**, the course of cyclisation in the formation of alicyclic rings. Part I. Effect of alkyl groups on the cyclisation of esters of polycarboxylic acids, 1028.
studies in the terpenes. Part I. A synthesis of *dl*-2:2:3-trimethylcyclohexane-1-carboxylic acid, 1565.
- Chakravarti, R. N., Pausacker, K. H., and Robinson, (Sir) R.**, strychnine and brucine. Part XLVII. Oxodihydroneostrychnine and oxodihydroneostyrylmethylidihydroneostrychnine, 1554.
- Chakravarti, R. N., and Robinson, (Sir) R.**, strychnine and brucine. Part XLVI. The preparation of *neostrychnine* and *neobrucine*, 78.
- Challenger, F., and Charlton, P. T.**, studies on biological methylation. Part X. The fission of the mono- and disulphide links by moulds, 424.
- Challis, A. A. L., and Clemo, G. R.**, some amines and amides derived from vanillin, 613.
homovanillin, 1692.
- Chapman, N. B., Gibson, G. M., and Mann, F. G.**, synthetic antimalarials. Part XVI. 4-Dialkylaminoalkylaminoquinazolinolines; variation of substituents in the 6- and 7-positions, 890.
- Charlish, (Mrs.) J. L.** See **Buckley, G. D.**
- Charlton, P. T.** See **Challenger, F.**
- Clarke, R. J.** See **Parke, G. D.**

- Clemo, G. R., and Legg, N.**, the chemistry of 1-azanthraquinone. Part II. Sulphonation of 1-azanthraquinone. Part III. Chloro-derivatives of 2:4-dimethyl-1-azanthraquinone, 539, 545.
- Clemo, G. R., and Turnbull, J. H.**, the sulphonation of some derivatives of eugenol, 124.
- Clemo, G. R.** See also **Challis, A. A. L.**
- Coates, E.** See **Bowen, E. J.**
- Coates, J. I., and Glueckauf, E.**, theory of chromatography. Part III. Experimental separation of two solutes and comparison with theory, 1308.
- Coates, J. I.** See also **Glueckauf, E.**
- Cocker, W., and Hornsby, S.**, the constitution of ψ -santonin. Part IV. A study of the butenolide system, 1157.
- Cocker, W., and Lipman, C.**, the constitution of ψ -santonin. Part III. Some synthetic experiments, 533.
- Cook, A. H., Heilbron, (Sir) I., and Levy, A. L.**, studies in the azole series. Part I. A novel route to 5-aminothiazoles. Part II. The interaction of α -amino-nitriles and carbon disulphide, 1594, 1598.
- Cook, A. H.** See also **Catch, J. R.**
- Cook, J. W., Dickson, G. T., and Loudon, J. D.**, colchicine and related compounds. Part VI. 3:4:5:6-Dibenzcyclohepta-1:3:5-triene, 746.
- Cook, J. W.** See also **Badger, G. M.**
- Cookson, D. R.** See **Lyon, D. R.**
- Cookson, R. C., and Mann, F. G.**, the cyano-ethylation of arsines, and the preparation of amidino-alkyl-arsines and carboxy-alkyl-arsines, 618.
- Cornforth, J. W., and Cornforth, (Mrs.) R. H.**, a new synthesis of oxazoles and iminazoles including its application to the preparation of oxazole, 96.
- Cornforth, (Mrs.) R. H.** See **Cornforth, J. W.**
- Cottrell, T. L., and Gill, J. E.**, diglycylethylenediamine, 129.
- Coulson, E. A., and Herington, E. F. G.**, composition, pressure, and temperature relationships in binary azeotropic systems, 597.
- Cowper, R. M., and Stevens, T. S.**, molecular rearrangement and displacement of arylamine residues in α -arylamino-ketones. Part I., 1041.
- Crane, C. W., and Rydon, H. N.**, the chemistry of 2-chloro-alkylamines. Part III. The dimerisation and hydrolysis of 2:2':2''-trichlorotriethylamine, 527. the alkaline fission of some 2-substituted dimethylethylsulphonium iodides, 766.
- Creeth, J. M., Gulland, J. M., and Jordan, D. O.**, deoxy-pentose nucleic acids. Part III. Viscosity and streaming birefringence of solutions of the sodium salt of the deoxy-pentose nucleic acid of calf thymus, 1141.
- Crosbie, G. W.** See **Badger, G. M.**
- Cross, E. J.** See **Rowe, F. M.**
- Cunneen, J. I.**, the addition of thio-compounds to olefins. Part I. Reactions of thioglycolic acid, thiophenol, and isopentanethiol. Part II. Reactions of thiolacetic and mono-, di-, and tri-chlorothiolacetic acids, 36, 134.
- Curd, F. H. S., Davis, (Miss) M. I., Hoggarth, E., and Rose, F. L.**, synthetic antimalarials. Part XV. Some aryloxy- and arylthio-dialkylaminoalkylaminopyrimidines, 783.
- Curd, F. H. S., Graham, W., Richardson, (Miss) D. N., and Rose, F. L.**, synthetic antimalarials. Part XXII. Some quinolylamino-substituted pyrimidine derivatives, 1613.
- Curd, F. H. S., Landquist, J. K., and Rose, F. L.**, synthetic antimalarials. Part XII. Some 1:3:5-triazine derivatives. Part XIV. Some 2-arylamino-4-aminoalkylaminoquinazolines, 154, 775.
- Curd, F. H. S., and Raison, C. G.**, synthetic antimalarials. Part XIII. Some *N*-dialkylaminoalkylamidines, 160.
- Curd, F. H. S., Raison, C. G., and Rose, F. L.**, synthetic antimalarials. Part XVII. Some arylaminoalkylaminoquinoline derivatives, 899.
- Curd, F. H. S.** See also **Basford, F. R.**
- Danby, C. J.** See **Barrow, R. F.**
- Davies, J. S. H., and Morris, D. S.**, derivatives of indene and of butyric acid, 1697.
- Davies, R. E., Haworth, R. D., Jones, B., and Lamberton, A. H.**, investigations on the influence of chemical constitution upon toxicity. Part III. Compounds related to "miotine," 191.
- Davies, W. C.** See **Jones, W. J.**
- Davis, (Miss) M. I.** See **Curd, F. H. S.**
- Davis, V. E.** See **Jones, W. J.**
- Davoud, J. G.** See **Barrow, R. F.**
- Davy, W. A.** See **Burton, H.**
- Denbigh, K. G., and Prince, A. J.**, kinetics of nitrous gas absorption in aqueous nitric acid, 790.
- Dewar, E. T., and Percival, E. G. V.**, the polysaccharides of carrageen. Part II. The *Gigartina stellata* polysaccharide, 1622.
- Dickson, G. T.** See **Cook, J. W.**
- Donnan, F. G.**, Ernst Julius Cohen Memorial Lecture, 1700.
- Dorée, C., McGhie, J. F., and Kurzer, F.**, lanosterol. Part IV. Hydrocarbons formed by the action of dehydrating agents, 1467.
- Douglas, B., Jacomb, R. C., and Kermack, W. O.**, attempts to find new antimalarials. Part XXVI. Further derivatives of *p*-phenanthroline, 1659.
- Duff, R. B., and Percival, E. G. V.**, carbohydrate sulphuric esters. Part IV. Production of a derivative of 5:6-anhydroglucose by the hydrolysis of a sulphate, 1675.
- Dunitz, J. D., and Robertson, J. M.**, the crystal and molecular structure of certain dicarboxylic acids. Part I. Oxalic acid dihydrate. Part II. Acetylenedicarboxylic acid dihydrate. Part III. Diacetylenedicarboxylic acid dihydrate, 142, 148, 1145.

E.

- Earl, J. C., and Hills, N. G.**, an experimental study of the alkylation of aromatic amines using (1) aluminium alkoxides and (2) alumina with alcohols, 973.
- Easson, A. P. T.** See **Ashley, J. N.**
- Edwards, C.** See **Jones, W. J.**
- Ellery, E.** See **Buckley, G. D.**
- Elliot, T. J.** See **Bradford, L., and Buckley, G. D.**
- Emeléus, H. J., and Payne, D. S.**, some organic derivatives of hexachlorodisiloxane, 1590.
- Emeléus, H. J., and Robinson, S. R.**, alkyl, aryl, and alkoxy-derivatives of silicon tetrachloride and silicochloroform, 1592.
- Evans, A. G., Evans, M. G., and Polanyi, M.**, the mechanism of substitution at a saturated carbon atom, 558.
- Evans, A. G., and Polanyi, M.**, some aspects of the chemistry of macromolecules. Part I. Polymerisation of *isobutene* by Friedel-Crafts catalysts, 252.
- Evans, M. G.**, some aspects of the chemistry of macromolecules. Part III. Polymerisation of monomers in aqueous solution, 266.
- Evans, M. G.** See also **Evans, A. G.**
- Evans, W. C., and Walker, N.**, the synthesis of α -amino-*p*-(*p*-hydroxyphenyl)butyric acid, a homologue of tyrosine, 1571.
- Everdell, M. H.** See **Bircumshaw, L. L.**

F.

- Farmer, E. H., and Shipley, F. W.**, the reaction of sulphur and sulphur compounds with olefinic substances. Part I. The reaction of sulphur with mono-olefins and with $\Delta^{1:5}$ -diolefins, 1519.
- Farrar, (Mrs.) K. R.** See **Barker, G. R.**
- Finar, I. L.** See **Wilkinson, J. H.**
- Fonseka, E. L.**, experiments on the synthesis of cyanomaclurin, 1683.
- Ford-Moore, A. H.**, substituted benzilic acids and benzophenones, 952.
- Ford-Moore, A. H., and Ing, H. R.**, synthetic mydriatics, 55.
- Ford-Moore, A. H., and Williams, J. H.**, the reaction between trialkyl phosphites and alkyl halides, 1465.
- Fuller, A. T., and King, H.**, some alkoxy- and alkylenedioxy-di-amines and alkoxy- and alkylenedioxydiguandines, 963.

D.

- Dalglish, C. E., and Mann, F. G.**, the preparation and properties of thiol-esters, 559. the preparation and properties of thionaphthindoles, 653. the synthesis of β -(3:4-dihydroxyphenyl)-*N*-methylserine (adrenalinecarboxylic acid), 658.

G.

- Gardner, J. A.**, obituary notice of, 865.
- Garner, W. E.**, the reduction of oxides by hydrogen and carbon monoxide, 1239.
- Gaudion, W. J., Hook, W. H., and Plant, S. G. P.**, the Friedel-Crafts reaction with 1-acyl-2:3-dimethylindoles, 1631.
- Gee, G.**, some aspects of the chemistry of macromolecules. Part V. Equilibrium properties of high polymer solutions and gels, 280.
- Gee, H. L., and Harley-Mason, J.**, improved preparation of 4:4'-diaminobenzil and 2:2'-dihydroxybenzil, 251.
- Gibson, G. M.** See **Chapman, N. B.**
- Gill, J. E.** See **Cottrell, T. L.**
- Gillam, A. E., and Moss, D. G.**, the absorption spectra of 2:4-dinitrophenylsemicarbazones, 1387.
- Given, P. H., and Hammick, D. L.**, some catalysed gas-phase reactions of aromatic hydrocarbons. Part I. The interaction of benzene with methyl ether, 928.
the reaction of benzoic anhydride with aromatic compounds catalysed by boron trifluoride, 1237.
- Glueckauf, E.**, theory of chromatography. Part II. Chromatograms of a single solute. Part V. Separation of two solutes following a Freundlich isotherm, 1302, 1321.
- Glueckauf, E., and Coates, J. I.**, theory of chromatography. Part IV. The influence of incomplete equilibrium on the front boundary of chromatograms and on the effectiveness of separation, 1315.
- Glueckauf, E.** See also **Coates, J. I.**
- Goldberg, A. A., and Kelly, W.**, synthesis of diaminoacridines. Part II., 595.
synthesis of nuclear amidino-derivatives of 5-aminoacridine, 637.
synthesis of ω -aminoalkyl cyanides, 1369.
synthesis of the 2- ω -aminoalkyl and 2- ω -sulphanilamido-alkyl derivatives of thiazole and pyrimidine, 1372.
- Goodwin, T. H., and Whetstone, J.**, the crystal structure of ammonium nitrate III, and atomic scattering factors in ionic crystals, 1455.
- Graham, A. R.** See **Catch, J. R.**
- Graham, W.** See **Curd, F. H. S.**
- Graymore, J.**, the preparation of benzylamines from benzyl halides and hexamethylenetetramine, 1116.
- Gregory, (Miss) H., and Wiggins, L. F.**, the conversion of sucrose into thiazole derivatives. Part I. Sulphanilamidothiazoles derived from lævulinic acid. Part II. 2:4-Dimethylthiazole derivatives and 2:4:5-trimethylthiazole, 590, 1400.
anhydrides of polyhydric alcohols. Part VIII. Some alkenyl ethers of 1:4:3:6-dianhydromannitol and 1:4:3:6-dianhydrosorbitol, 1405.
- Gregory, (Miss) P. Z., Holt, S. J., and Slack, R.**, the search for chemotherapeutic amidines. Part VI. Pyridines, 87.
- Gregory, (Miss) P. Z.** See also **Barber, H. J.**
- Gridgean, N. T., Hunter, R. F., and Williams, N. E.**, the pro-vitamin-A activity of mutatochrome, 131.
- Guichard, M.** See **Baxter, G. P.**
- Gulland, J. M., Jordan, D. O., and Taylor, H. F. W.**, deoxy-pentose nucleic acids. Part II. Electrometric titration of the acidic and the basic groups of the deoxypentose nucleic acid of calf thymus, 1131.
- Gulland, J. M., Jordan, D. O., and Threlfall, C. J.**, deoxy-pentose nucleic acids. Part I. Preparation of the tetra-sodium salt of the deoxypentose nucleic acid of calf thymus, 1129.
- Gulland, J. M., and Smith, H.**, the constitution of yeast -ribonucleic acid. Part XI. Synthesis of uridine-2'-phosphate, 338.
- Gulland, J. M.** See also **Barker, G. R., and Creeth, J. M.**

H.

- Habeshaw, J.** See **Hodgson, H. H.**
- Halsall, T. G., Hirst, E. L., and Jones, J. K. N.**, the structure of glycogen; ratio of non-terminal to terminal glucose residues, 1399.
oxidation of carbohydrates by the periodate ion, 1427.
- Hamer, (Miss) F. M., and Rathbone, R. J.**, symmetrical tri-carbo-cyanines having one or more methyl groups as substituents on the chain, 960.

- Hamer, (Miss) F. M., Rathbone, R. J., and Winton, (Miss) B. S.**, some heterocyclic methylene bases and their anilomethyl derivatives, 954.
some trinuclear cyanine dyes. Part I. The synthesis of neocyanines, 1434.
- Hammick, D. L.** See **Brown, B. R., and Given, P. H.**
- Hanby, W. E., Hartley, G. S., Powell, E. O., and Rydon, H. N.**, the chemistry of 2-chloroalkylamines. Part II. Reactions of tertiary 2-chloroalkylamines in water, 519.
- Hanby, W. E., and Rydon, H. N.**, the chemistry of 2-chloroalkylamines. Part I. Preparation and general reactions, 513.
- Hancox, N. C.** See **Bradbury, R. B.**
- Hargreaves, (Mrs.) B. M. C.** See **Borrows, E. T.**
- Hargreaves, G. H., and Owen, L. N.**, reactions of carbinols in the presence of alkali. Part I. The reduction of ketones by primary alcohols. Part II. The scission of ricinoleic acid. Part III. The scission of $\alpha\beta$ -ethylenic carbinols, 750, 753, 756.
- Harley-Mason, J.**, some aliphatic thiols and their derivatives. Part I. Aliphatic mercaptoamines, 320.
studies in the thiazole series. Part I. The reaction between thiourea and *s*-dichloroacetone, 323.
- Harley-Mason, J.** See also **Gee, H. L.**
- Harris, J. I., Bowden, S. T., and Jones, W. J.**, the preparation and properties of triarylstibines, 1568.
- Harris, J. O.**, attempts to find new chemotherapeutic amidines. Part VII., 690.
- Hartley, G. S.** See **Hanby, W. E.**
- Hartley, (Sir) H.**, a century of chemistry, 1278.
- Harvey, B. G., Heal, H. G., Maddock, A. G., and Rowley, (Miss) E. L.**, the chemistry of plutonium, 1010.
- Hassall, C. H., and Todd, A. R.**, the structure of clavatul, a metabolic product of *Aspergillus clavatus*, 611.
- Hatt, H. H.** See **Bradbury, R. B.**
- Haworth, E., Rose, F. L., and Slinger, F. H.**, derivatives of sulphanilylguanidine; preparation for pharmacological study, 820.
- Haworth, R. D., Lamberton, A. H., and Woodcock, D.**, investigations on the influence of chemical constitution upon toxicity. Part I. Compounds related to "doryl." Part II. Compounds related to "prostigmine," 176, 182.
- Haworth, R. D., Lindley, C., and Woodcock, D.**, the isolation of indene from heavy naphthas, 369.
- Haworth, R. D., and Woodcock, D.**, the synthesis of 5-nitroindene, 95.
- Haworth, R. D.** See also **Cartwright, N. J., and Davies, R. E.**
- Haworth, W. N.**, presidential address, 1946, 582.
- Haynes, L. J., Heilbron, (Sir) I., Jones, E. R. H., and Sondheimer, F.**, researches on acetylenic compounds. Part XIII. The reaction between epichlorohydrin and sodium acetylide; a novel route to the ethynyl-ethylenic alcohol, pent-2-en-4-yn-1-ol, 1583.
- Heal, H. G.** See **Harvey, B. G.**
- Heath, R. L., and Lambert, A.**, aliphatic nitro-compounds. Part IV. Addition of thiols to α -nitro-olefins, 1477.
- Heath, R. L., and Piggott, H. A.**, aliphatic nitro-compounds. Part V. Preparation of 2-nitroalkanesulphonic acids by interaction of α -nitro-olefins and sodium hydrogen sulphite, 1481.
- Heath, R. L., and Rose, J. D.**, aliphatic nitro-compounds. Part VI. Reaction of α -nitro-olefins with hydrochloric acid. Part VII. Preparation of 2-nitroalkylamines, 1485, 1486.
- Heath, R. L.** See also **Buckley, G. D.**
- Heilbron, (Sir) I., Jones, E. R. H., and Sondheimer, F.**, researches on acetylenic compounds. Part XIV. A study of the reactions of the readily available ethynyl-ethylenic alcohol, pent-2-en-4-yn-1-ol, 1586.
- Heilbron, (Sir) I.** See also **Bowden, K., Catch, J. R., Cook, A. H., and Haynes, L. J.**
- Herington, E. F. G.** See **Coulson, E. A.**
- Hills, N. G.** See **Earl, J. C.**
- Hilmy, M. K.** See **Mustafa, A., and Schönberg, A.**
- Hinshelwood, C. N.**, presidential address, 1947, 694.
centenary address, 1271.
- Hinshelwood, C. N.** See also **Barrow, R. F.**
- Hirst, E. L., and Jones, J. K. N.**, the constitution of egg-plum gum. Part I., 1064.
pectic substances. Part VI. The structure of the araban from *Arachis hypogea*, 1221.

- Hirst, E. L., Jones, J. K. N., Minahan, (Mrs.) S., Ochynski, F. W., Thomas, A. T., and Urbanski, T.**, the reaction of 1-nitropropane with formaldehyde and ammonia, 924.
- Hirst, E. L., Jones, J. K. N., and Walder, (Mrs.) W. O.**, pectic substances. Part VII. The constitution of the galactan from *Lupinus albus*, 1225.
the galactomannan of the lucerne seed, 1443.
- Hirst, E. L., Jones, J. K. N., and Williams, (Miss) E.**, the synthesis of 3-methyl and 3:5-dimethyl *l*-arabinose, 1062.
- Hirst, E. L., Jones, J. K. N., and Woods, E. A.**, the quantitative determination of galactose, mannose, arabinose, and rhamnose, 1048.
- Hirst, E. L.** See also **Halsall, T. G.**
- Hodgson, H. H., and Habeshaw, J.**, the reduction of 1:1'-azonaphthalene and of some 4:4'-derivatives, 77.
some 1:1'- and 2:2'-dinaphthyl derivatives and a new synthesis of 3:3'-dinitro-1:1'-dinaphthyl, 1573.
- Hodgson, H. H., Habeshaw, J., and Murti, P. B. R.**, the naphthidine transformation involving β -positions only, 1390.
- Hodgson, H. H., and Mahadevan, A. P.**, an interpretation of the Sandmeyer reaction. Part IX. The behaviour of diazotised 2:4:6-trichloro- and 2:4:6-tribromo-aniline towards the Sandmeyer reagent, 173.
a general method for the preparation of solid aryldiazonium sulphates, 325.
- Hodgson, H. H., Mahadevan, A. P., and Ward, E. R.**, the replacement of the diazonium by the nitro-group. Part III. Decompositions by cupro-cupri sulphite, 1392.
- Hodgson, H. H., Sibbald, D. D. R., and Smith, E. W.**, the preparation and some reactions of 4-nitrosothioanisole, 851.
- Hodgson, H. H., and Ward, E. R.**, the replacement of the diazonium by the nitro-group. Part II. Extension of the method to nitronaphthylamines, benzidine, and 3:3'-dichlorobenzidine, 127.
some reactions and derivatives of 6- and 7-nitro-2-naphthylamines. Part I. Bromination, halogeno-derivatives, and the preparation of the new 7-nitro-2-naphthol. Part II. Nitration and diazo-coupling, 327, 1060.
an improved preparation of 1:8-dinitronaphthalene, 1109.
- Hodgson, H. H., and Whitehurst, J. S.**, the tetrazotisation of 1:5- and 1:8-naphthylenediamines and the tetranitration of 1:5- and 1:8-di-*p*-toluenesulphonamidonaphthalenes, 80.
- Hönigschmid, O.** See **Baxter, G. P.**
- Hoggarth, E.**, the rearrangement of 2-benzenesulphenamidothiazoles. Part I. Thiazole compounds not substituted in position 4. Part II. Thiazole compounds substituted in position 4, 110, 114.
- Hoggarth, E., and Sexton, W. A.**, a new reaction of thiocyanic esters, 815.
- Hoggarth, E.** See also **Bastford, F. R.**, and **Curd, F. H. S.**
- Holdsworth, J. B.** See **Baker, J. W.**
- Holland, D. O.** See **Borrows, E. T.**
- Holliman, F. G., and Mann, F. G.**, the stereochemistry of organic derivatives of phosphorus. Part II. The synthesis of 2:2-disubstituted 1:2:3:4-tetrahydroisosphosphinolinium salts and the optical resolution of 2-phenyl-2-*p*-hydroxyphenyl-1:2:3:4-tetrahydroisosphosphinolinium bromide, 1634.
- Holmes, D.** See **King, F. E.**
- Holt, S. J., and Petrow, V.**, carbazoles, carbolines, and related compounds. Part I. Quindoline derivatives, 607.
- Holt, S. J.** See also **Gregory, (Miss) P. Z.**
- Honeyman, J.**, reactions of cellulose. Part I., 168.
- Hook, W. H.** See **Gaudion, W. J.**
- Hornsby, S.** See **Cocker, W.**
- Houston, A. H. J.** See **Campbell, A.**
- Howard, G. A., Lythgoe, B., and Todd, A. R.**, a synthesis of cytidine, 1052.
- Hull, R., Lovell, (Miss) B. J., Openshaw, H. T., and Todd, A. R.**, synthetic antimalarials. Part XI. The effect of variation of substituents in derivatives of mono- and dialkylpyrimidines, 41.
- Hullin, R. P., Miller, J., and Short, W. F.**, amidines. Part V. Preparation of amidines from cyanides and substituted aminomagnesium halides, 394.
- Hunt, F. G.** See **Buckley, G. D.**
- Hunt, J. H.** See **Campbell, N. R.**
- Hunter, R. F., and Krakenberger, R. M.**, the oxidation of β -carotene in solution by oxygen, 1.
- Hunter, R. F.** See also **Gridgeman, N. T.**
- Hutchison, W. C., and Kermack, W. O.**, attempts to find new antimalarials. Part XXV. Some derivatives of 3:4:2':3'-pyridoaacridine substituted in the 2-position, 678.

I.

Ing, H. R. See **Ford-Moore, A. H.**

Ingram, J. S., and McClelland, E. W., the formation of some benz-1:3-thiazine derivatives by the reduction of benzisothiazolones, 763.

Ives, D. J. G., Pittman, R. W., and Wardlaw, W., the preparation, properties, and chlorination products of carbon diselenide, 1080.

J.

Jacomb, R. G. See **Douglas, B.**

James, D. M. See **Bennett, G. M.**

James, E. J. F. See **Trotman-Dickenson, A. F.**

Japhé, H. See **Bergmann, F.**

Johnson, A. W., the reaction of $\alpha\beta$ -ethynyl ketones with active methyl and methylene compounds, 1626.

Johnson, A. W., and Melhuish, R. R., a new synthesis of benzo-pyrylium salts, 346.

Johnson, E. A. See **Birch, S. F.**

Jones, B. See **Davies, R. E.**

Jones, E. R. H., Marszak, I., and Bader, H., researches on acetylenic compounds. Part XI. The Mannich reaction with monosubstituted acetylenic compounds, 1578.

Jones, E. R. H. See also **Bowden, K., Braude, E. A., Haynes, L. J., and Heilbron, (Sir) I.**

Jones, J. K. N., the constitution of cherry gum. Part II. The products of hydrolysis of methylated cherry gum, 1055.

Jones, J. K. N., Kent, P. W., and Stacey, M., synthesis of some derivatives of *D*- and *L*-arabinose, 1341.

Jones, J. K. N., and Stacey, M., some derivatives of *D*-galacturonic acid, 1340.

Jones, J. K. N. See also **Beavan, G. H., Brown, F., Halsall, T. G., and Hirst, E. L.**

Jones, W. J., Davies, W. C., Bowden, S. T., Edwards, C., Davis, V. E., and Thomas, L. H., preparation and properties of allyl phosphines, arsines, and stannanes, 1446.

Jones, W. J. See also **Harris, J. I.**

Jones, W. W., and Russell, M., the effect of temperature on the proportions of isomers formed in the mononitration of toluene, 921.

Jordan, D. O. See **Creeth, J. M., and Gulland, J. M.**

K.

Keely, R. K. F. See **Bremner, J. G. M.**

Kelly, W. See **Goldberg, A. A.**

Keneford, J. R., and Simpson, J. C. E., cinnolines. Part IX.

The preparation of some 6:7- and 7:8-disubstituted-4-hydroxycinnolines. Part XIII. Synthetic antimalarials. Part XX. Synthesis and antimalarial action of 4-amino-alkylaminocinnolines, 227, 917.

Kent, P. W. See **Jones, J. K. N.**

Kenyon, J. See **Campbell, A.**

Kermack, W. O. See **Douglas, B., and Hutchison, W. C.**

King, F. E., and Holmes, D., synthetic mydriatics; diphenyl-chloroacetyl chloride as a reagent for the preparation of benzilic esters of tertiary amino-alcohols, 164.

King, F. E., and King, T. J., new potential chemotherapeutic agents. Part VI. Derivatives of 1:3-diaza-acridine. Part VII. Experiments on the synthesis of 8-aminopurines, 726, 943.

King, F. E., King, T. J., and Spensley, P. C., the constitution of a by-product from the preparation of trichloropyrimidine from barbituric acid, 1247.

King, H., curare alkaloids. Part VI. Alkaloids from *Chondrodendron tomentosum* R. and P., 936.

King, H. See also **Fuller, A. T.**

King, T. J. See **King, F. E.**

Klein, (Miss) E. R., and Lahey, F. N., 1:9-diaminoacridine, 1418.

Kletz, T. A., and Price, W. C., the infra-red spectra of solid and liquid alkylphenols, 644.

Knott, E. B., reactions of alkylisoformanilides. Part III. With phenols, 976.
 β -cyclopropionitriles. Part I. A general synthesis and conversion into pyrrole dyes. Part II. Conversion into bis-2-(5-cyclopyrrole)azamethin salts, 1190, 1196.
 miscellaneous thiazoles, 1656.

Krakenberger, R. M. See **Hunter, R. F.**

Kurzer, F. See **Dorée, C.**

L.

Lahey, F. N. See **Klein, (Miss) E. R.**

Lambert, A., and **Lowe, A.**, aliphatic nitro-compounds. Part XVIII. Interaction of ketones and nitroparaffins, 1517.

Lambert, A., and **Piggott, H. A.**, aliphatic nitro-compounds. Part VIII. Addition of primary and secondary nitro-paraffins to α -nitro-olefins to give 1:3-dinitro-paraffins, 1489.

Lambert, A., and **Rose, J. D.**, aliphatic nitro-compounds. Part XVI. Condensation of hydroxymethyldialkylamines with nitro-paraffins, 1511.

Lambert, A., **Scaife, C. W.**, and **Wilder-Smith, A. E.**, aliphatic nitro-compounds. Part III. Preparation of alkyl 2-nitro-alkyl ethers, 1474.

Lambert, A. See also **Heath, R. L.**

Lamberton, A. H. See **Davies, R. E.**, and **Haworth, R. D.**

Lambourne, L. J., and **Robertson, P. W.**, the kinetics of aromatic halogen substitution. Part III. Iodination by iodine chloride, 1167.

Landquist, J. K. See **Curd, F. H. S.**

Lapworth, A., obituary notice of, 989.

Lean, B., obituary notice of, 1110.

Lecocq, J. See **Buu-Hoi, N. P.**

Le Fèvre, R. J. W. See **Anderson, D.**

Legg, N. See **Clemon, G. R.**

Lermit, L. J., and **Mogridge, R. C. G.**, some dichloroamine derivatives, 530.

Levy, A. L. See **Cook, A. H.**

Lindley, C. See **Haworth, R. D.**

Linnett, J. W. See **Arthur, J. R.**

Lipman, C. See **Cocker, W.**

Llewellyn, F. J., the crystal structure of *p*-dinitrobenzene, 884.

Llewellyn, F. J., and **Whitmore, F. E.**, the crystal structure of strontium azide, 881.

Llewellyn, F. J. See also **Booth, A. D.**

Loudon, J. D. See **Cook, J. W.**

Lovell, (Miss) B. J. See **Hull, R.**

Lowe, A. See **Buckley, G. D.**, and **Lambert, A.**

Lyon, D. R., **Mann, F. G.**, and **Cookson, G. H.**, the preparation and properties of 2-substituted isoarsindolines and of *aspirobis*isoarsindolinium salts, 662.

Lythgoe, B., **Smith, H.**, and **Todd, A. R.**, experiments on the synthesis of purine nucleosides. Part XVI. 9- β -*d*-Mannopyranosidoadenine; a proof of the location of the sugar residue in adenosine, 355.

Lythgoe, B. See also **Howard, G. A.**

M.

Macbeth, A. K., and **Mills, J. A.**, epimeric alcohols of the cyclohexane series. Part VI. The optically active 3-methylcyclohexanols, 205.

Macbeth, A. K. See also **Berry, P. A.**

McClelland, E. W., and **Peters, R. H.**, the reactions of *N*-benzenesulphonylbenzothiazolone with aromatic amines, 1229.

McClelland, E. W. See also **Barton, A. W. H.**, and **Ingram, J. S.**

McFadyen, W. T. See **Rowe, F. M.**

McGhie, J. F. See **Dorée, C.**

McIlroy, R. J., trityl derivatives of xylofuranose; 2-acetyl 3:5-ditryl and 2-methyl 3:5-ditryl methylxylofuranoside, 850.

Maddock, A. G. See **Harvey, B. G.**

Madgin, W. M. See **Bell, A. E.**

Mahadevan, A. P. See **Hodgson, H. H.**

Major, F. W. See **Barber, H. J.**

Malkin, T. See **Carter, M. G. R.**

Mann, F. G., **Naylor, F. T.**, and **Porter, J. W. G.**, synthetic antimalarials. Part XIX. Dialkylaminoalkylaminodiphenylguanidines, 914.

Mann, F. G., and **Porter, J. W. G.**, synthetic antimalarials. Part XVIII. 3-Dialkylaminoalkylaminodiphenylamines, 910.

Mann, F. G., and **Watson, J.**, tetra-aryl-phosphonium, -arsonium, and -stibonium salts. Part III. The synthesis and properties of tetra-aryl-arsonium salts having four dissimilar aryl groups, 505.

Mann, F. G. See also **Chapman, N. B.**, **Cookson, R. C.**, **Dalgliesh, C. E.**, **Holliman, F. G.**, and **Lyon, D. R.**

Marrian, D. H., **Russell, P. B.**, and **Todd, A. R.**, the preparation and bacteriostatic action of some aminochalkones and related compounds, 1419.

Marrian, D. H., **Russell, P. B.**, **Todd, A. R.**, and **Waring, W. S.**, the structure of anhydrotetrone acid, 1365.

Marsh, J. D. F. See **Bowen, E. J.**

Marsh, J. K., the place of yttrium and the application of ferricyanide precipitation in the rare-earth group; the purification of erbium, 118.
 the relation of yttrium to the lanthanons; a study of molecular volumes, 1084.

Marszak, I. See **Jones, E. R. H.**

Maxted, E. B., studies in the detoxication of catalyst poisons. Part V. Thiophen, 624.

Meara, M. L., the configuration of naturally occurring mixed glycerides. Part III. The configuration of the major component glycerides of piqui-a fruit-coat fat, 773.

Melhuish, R. R. See **Johnson, A. W.**

Melville, H. W., some aspects of the chemistry of macromolecules. Part IV. Polymerisation of vinyl compounds in the gas and in the liquid phase, 274.

Melville, H. W., and **Tuckett, R. F.**, the photochemical polymerisation of vinyl acetate vapour, 1201.
 radical-sensitised polymerisation of vinyl acetate vapour, 1211.

Menzies, R. C., application of thallium compounds in organic chemistry. Part XI., 1378.

Miller, (Miss) C. C., qualitative semimicro-analysis with reference to Noyes and Bray's system: partial analysis of the combined nickel, zirconium, and rare-earth groups, 1347.

Miller, J. See **Hullin, R. P.**

Mills, J. A. See **Albert, A.**, and **Macbeth, A. K.**

Minahan, (Mrs.) S. See **Hirst, E. L.**

Minkoff, G. J. See **Bunton, C. A.**

Mitchell, S., and **Scott, E. J. Y.**, on the suitability of parantionide for asymmetric photolysis, 686.

Mitchell, W., and **Trautner, E. M.**, the minor alkaloids of *Duboisia myoporoides*. Part IV. Valeroidine, 1330.

Moffatt, J. S., 3(β):6(β)-dihydroxycholic acid, an epimeride of hydoxycholic acid, 812.

Mogridge, R. C. G., obituary notice of, 1708.

Montgomery, R., and **Wiggins, L. F.**, anhydrides of polyhydric alcohols. Part VI. 1:4-3:6-Dianhydro mannitol and 1:4-3:6-dianhydro sorbitol from sucrose, 433.

Morrell, R. S., obituary notice of, 432.

Morris, D. S. See **Davies, J. S. H.**

Moss, D. G. See **Gillam, A. E.**

Mostafa, (Mrs.) A. See **Moubasher, R.**

Moubasher, R., and **Mostafa, (Mrs.) A.**, derivatives of *perinaphthindanetrione*, 130.

Mukherjee, S., and **Todd, A. R.**, 3-deoxy-*l*-xylose, 969.

Murti, P. B. R. See **Hodgson, H. H.**

Mustafa, A., and **Hilmy, M. K.**, compounds related to 2:3-dimethylpyridine, 1698.

Mustafa, A. See also **Schönberg, A.**

N.

Naylor, F. T. See **Mann, F. G.**

Naylor, R. F., syntheses in the thiopyran series. Part I. Tetrahydro-derivatives, 1106.
 the reaction of sulphur and sulphur compounds with olefinic substances. Part II. Mechanism of the reaction of hydrogen sulphide with mono-olefins, di-isoprenes, and rubber, 1532.

Newbery, G., and **Webster, W.**, attempts to find new chemotherapeutic amidines. Part VIII. Some aliphatic mono-amidines, 738.

- Newbold, G. T., and Spring, F. S.**, pyrazine derivatives. Part II. A synthesis of a racemic 2-hydroxy-3 : 6-di-*sec.*-butylpyrazine and its relationship to deoxyaspergillio acid. Part IV. Pyrazine *N*-oxides and their conversion into chloropyrazines, 373, 1183.
- Newbold, G. T.** See also **Baxter, R. A.**
- Newth, F. H., Overend, W. G., and Wiggins, L. F.**, the action of acidic reagents on ethylene oxide anhydro sugars. Part I. The action of acid reagents on 4 : 6-benzylidene 2 : 3-anhydro α -methylalloside, 10.
- Newth, F. H., and Wiggins, L. F.**, the conversion of sucrose into furan compounds. Part III. Some amidinofurans, 396.
- O.**
- Ochynski, F. W.** See **Hirst, E. L.**
- Oldham, W. J.** See **Birch, S. F.**
- Openshaw, H. T.** See **Hull, R.**
- Osborn, W.** See **Rowe, F. M.**
- Overend, W. G., and Wiggins, L. F.**, the conversion of sucrose into pyridazine derivatives. Part I. 3-Sulphanilamido-6-methylpyridazine. Part II. 4-Amino-2-phenyl-6-methyl-3-pyridazone, 4-amino-2-(*p*-nitrophenyl)-6-methyl-3-pyridazone, and their sulphanilamido-derivatives, 239, 549.
- Overend, W. G.** See also **Newth, F. H.**
- Owen, L. N., and Somade, H. M. B.**, olefinic acids. Part II. The reactivity of α -bromoacrylic acid and some related compounds, 1030.
- Owen, L. N.** See also **Hargreaves, G. H.**
- Oxley, P., Partridge, M. W., and Short, W. F.**, amidines. Part VII. Preparation of amidines from cyanides, aluminium chloride, and ammonia or amines, 1110.
- Oxley, P., and Short, W. F.**, amidines. Part III. Preparation of substituted amidines from ammonium or substituted ammonium salts and *N*-acylbenzenesulphonalkylamides or acylbenzenesulphonanilides. Part VI. Preparation of 2-substituted 4 : 5-dihydroglyoxalines and ring homologues from cyanides and alkylenediamines, 382, 497.
- P.**
- Page, J. E.** See **Borrows, E. T.**
- Paine, F. A., and Pearson, J.**, potassium fluoaluminates, 1172.
- Painter, B. S., and Soper, F. G.**, acid catalysis in the iodination of phenol; iodination by acyl hypoiodites, 342.
- Palin, D. E., and Powell, H. M.**, the structure of molecular compounds. Part III. Crystal structure of addition complexes of quinol with certain volatile compounds, 208.
- Parkes, G. D., Clarke, R. J., and Thewlis, B. H.**, the action of heat on diphenylchloroarsine, 429.
- Partridge, M. W., and Short, W. F.**, amidines. Part IV. Preparation of amidines from cyanides and ammonium thiocyanate or substituted ammonium thiocyanates, 390.
- Partridge, M. W.** See also **Oxley, P.**
- Pausacker, K. H., and Robinson, (Sir) R.**, strychnine and brucine. Part LXVIII. Degradation of the strychnine-acetic acid prepared from pseudostrychnine, 1557.
- Pausacker, K. H.** See also **Chakravarti, R. N.**
- Payne, D. S.** See **Emelús, H. J.**
- Pearson, J.** See **Paine, F. A.**
- Pedley, E.**, the chlorination of 2-aminothiazole with sulphuryl chloride, 431.
- Penney, (Miss) M.** See **Bradfield, A. E.**
- Percival, E. G. V.** See **Dewar, E. T., and Duff, R. B.**
- Peters, A. T.**, acenaphthene series. Part II. Bromo-, nitro-, and amino-derivatives of 3 : 4-di-*tert.*-butylacenaphthene, and some brominated thioindigoid dyes; novel *acesubstitution*, 742.
- Peters, A. T.** See also **Rowe, F. M.**
- Peters, R. A., and Wakelin, R. W.**, the preparation of diethyl-dithiocarbamate-derivatives of 2 : 2'-dichlorodiethyl sulphide, 849.
- Peters, R. H.** See **McClelland, E. W.**
- Petrow, V.**, some amino-derivatives of dihydro- β -quinindene and tetrahydroacridine, 634.
- Petrow, V., Rewald, E. L., and Sturgeon, B.**, the preparation of 1 : 8-naphthyridines from 2 : 6-diaminopyridine, 1407.
- Petrow, V., and Wragg, W. R.**, contributions to the chemistry of phenanthridine. Part I. The conversion of 9-(3'-pyridyl)-phenanthridines into their quaternary salts and the preparation of some derivatives of potential biological interest, 1410.
- Petrow, V.** See also **Holt, S. J.**
- Phillips, L.** See **Vaughan, J.**
- Pianka, M.** See **Barany, H. C.**
- Piggott, H. A.** See **Heath, R. L., and Lambert, A.**
- Pittman, R. W.** See **Ives, D. J. G.**
- Plant, S. G. P., and Powell, (Mrs.) J. F.**, the Friedel-Crafts reaction in the carbazole series. Part III., 937.
- Plant, S. G. P.** See also **Gaudion, W. J.**
- Plesch, P. H., Polanyi, M., and Skinner, H. A.**, some aspects of the chemistry of macromolecules. Part II. The low-temperature polymerisation of *isobutene* by Friedel-Crafts catalysts, 257.
- Polanyi, M.** See **Evans, A. G., and Plesch, P. H.**
- Porter, J. W. G.** See **Mann, F. G.**
- Powell, E. O.** See **Hanby, W. E.**
- Powell, H. M.** See **Palin, D. E.**
- Powell, (Mrs.) J. F.** See **Plant, S. G. P.**
- Price, W. C.** See **Kletz, T. A.**
- Prideaux, E. B. R.**, obituary notice of, 1426.
- Prince, A. J.** See **Denbigh, K. G.**
- R.**
- Race, E.** See **Thomson, R. H.**
- Raison, C. G.** See **Curd, F. H. S.**
- Rao, K. V., and Seshadri, T. R.**, synthesis of the monomethyl ethers of kaempferol, and the constitution of rhamnocitrin, 122.
- Raphael, R. A.**, compounds related to penicillio acid. Part II. Synthesis of dihydropenicillic acid, 805.
- Rathbone, R. J.** See **Hamer, (Miss) F. M.**
- Reed, R. I.** See **Bunton, C. A.**
- Reich, W. S., Rose, G. G., and Wilson, W.**, a method of synthesis of trinitromethane derivatives, 1234.
- Resuggan, J. C. L.** See **Borrows, E. T.**
- Rewald, E. L.** See **Petrow, V.**
- Richards, R. E.**, infra-red spectrum and structural diagnosis; substituted carbazoles, 978.
- Richards, R. E., and Thompson, H. W.**, spectroscopic studies of the amide linkage, 1248.
- vibrational spectra of phenolic derivatives and phenolic resins, 1260.
- Richardson, (Miss) D. N.** See **Curd, F. H. S.**
- Ridge, D.**, the deamination of 2 : 6-dichloro-4-nitroaniline, 734.
- Robertson, A., and Waters, W. A.**, evidence for the homolytic bond fission of "positive halogen" compounds, 492.
- Robertson, J. M., and White, J. G.**, the crystal structure of pyrene; a quantitative X-ray investigation, 358.
- the crystal structure of the orthorhombic modification of 1 : 2 : 5 : 6-dibenzanthracene; a quantitative X-ray investigation, 1001.
- Robertson, J. M.** See also **Dunitz, J. D.**
- Robertson, P. W.** See **Lambourne, L. J., Swedlund, B. E., Ting, I., and Waters, H. D. C.**
- Robinson, F. A.** See **Barnett, (Miss) J. W., and Borrows, E. T.**
- Robinson, (Sir) R.**, the development of electrochemical theories of the course of reactions of carbon compounds, 1288.
- Robinson, (Sir) R.** See also **Chakravarti, R. N., and Pausacker, K. H.**
- Robinson, S. R.** See **Emelús, H. J.**
- Rogers, M. A. T., and Sexton, W. A.**, reactions of benzthiazole derivatives. Part V. Observations on the formation of 2-acetylbenzthiazole, 1619.
- Rose, F. L.** See **Basford, F. R., Curd, F. H. S., and Haworth, E.**
- Rose, G. G.** See **Braude, E. A., and Reich, W. S.**
- Rowe, F. M., and Cross, E. J.**, a reaction of certain diazo-sulphonates derived from β -naphthol-1-sulphonic acid. Part XIX. Derivatives of 4'-nitro-2'-methoxybenzene-2-naphthol-1-diazosulphonate, 461.

- Rowe, F. M., McFadyen, W. T., and Peters, A. T., a reaction of certain diazosulphonates derived from β -naphthol-1-sulphonic acid. Part XX. The stabilities of acrylic acid derivatives from sodium 1-aryloxy- β -naphthaquinone-1-sulphonate and its derivatives, and an investigation of derived isoindolinones, 468.
- Rowe, F. M., and Osborn, W., a reaction of certain diazosulphonates derived from β -naphthol-1-sulphonic acid. Part XXI. Derivatives of 2':4'-dinitrobenzene-2-naphthol-1-diazosulphonate, 829.
- Rowe, F. M. See also Bradford, L., and Thomson, R. H.
- Rose, J. D. See Buckley, G. D., Heath, R. L., and Lambert, A.
- Ross, W. C. J., γ -6-methoxy-1:2:3:4-tetrahydro-1-naphthylidenecrotonic acid, 1364.
- Rowley, (Miss) E. L. See Harvey, B. G.
- Royer, R., 4-*p*-aminostyryl- and 2:6-di-*p*-aminostyryl-pyridine, 560.
- Royer, R. See also Albert, A.
- Russell, M. See Jones, W. W.
- Russell, P. B. See Marrian, D. H.
- Rybicka, (Mrs.) S. M. See Bell, R. P.
- Rydon, H. N. See Crane, C. W., and Hanby, W. E.

S.

- Sargent, K. H. See Bowden, K.
- Saunders, T. G. See Bennett, G. M.
- Savage, J. See Anderson, D.
- Scaife, C. W. See Buckley, G. D., and Lambert, A.
- Schönberg, A., and Awad, W. I., the formation of phenanthrazole by the action of diazomethane on phenanthraquinoneimine, 651.
- Schönberg, A., and Barakat, M. Z., organic sulphur compounds. Part XXX. The stereochemistry of trimeric thioaldehydes, 693.
- Schönberg, A., and Mustafa, A., photochemical reactions in sunlight. Part XII. Reactions with phenanthraquinone, 9-aryloxanthens, and diphenyl triketone, 997.
- Schönberg, A., Mustafa, A., and Asker, (Miss) W., experiments with Grignard solutions. Part III. Action of Grignard solutions on thermochromic *spiropyran*s, 847.
- Schönberg, A., Mustafa, A., and Hilmy, M. K., experiments with diazomethane and its derivatives. Part XIII. Action of diazomethane on hydroxyanils, 1045.
- Schönberg, A., and Sina, A., the constitution of the dimeric permanganate-coloured diphenylketen, 175.
- Scott, E. J. Y. See Mitchell, S.
- Seshadri, T. R. See Rao, K. V.
- Sexton, W. A. See Hoggarth, E., and Rogers, M. A. T.
- Sheppard, N., and Sutherland, G. B. B. M., the infra-red spectra and molecular structure of certain isomeric diazocyanides, 453
- the application of infra-red analysis to the study of the reaction of certain olefins with hydrogen sulphide, 1540.
- the infra-red spectrum of vulcanised rubber and the chemical reaction between rubber and sulphur, 1699.
- Shipley, F. W. See Farmer, E. H.
- Shoppee, C. W. See Boyland, E.
- Short, W. F. See Hullin, R. P., Oxley, P., and Partridge, M. W.
- Sibbald, D. D. R. See Hodgson, H. H.
- Simpson, J. C. E., cinnolines. Part XI. 8-Nitro-4-hydroxycinnoline. Part XV. The alkaline decomposition of some quaternary salts of 4-substituted cinnolines, 237, 1653.
- Simpson, J. C. E. See also Atkinson, C. M., and Keneford, J. R.
- Sina, A. See Schönberg, A.
- Skinner, H. A. See Plesch, P. H.
- Slack, R. See Barber, H. J., and Gregory, (Miss) P. Z.
- Slinger, F. H. See Haworth, E.
- Smith, E. W. See Hodgson, H. H.
- Smith, H. See Gulland, J. M., and Lythgoe, B.
- Solomon, W., 1:2:3:4-tetrahydroisoquinaldinic acid, 129.
- Somade, H. M. B. See Owen, L. N.
- Sondheimmer, F. See Haynes, L. J., and Heilbron, (Sir) I.
- Soper, F. G. See Painter, B. S.
- Spensley, P. C. See King, F. E.
- Spring, F. S. See Baxter, R. A., and Newbold, G. T.
- Stacey, M., macromolecules synthesised by micro-organisms, 853.

- Stacey, M. See also Jones, J. K. N.
- Staveley, L. A. K. See Barrow, R. F.
- Stephen, (Miss) J. M. L., Tonkin, (Miss) I. M., and Walker, J., tetrahydroacridones and related compounds as anti-malarials, 1034.
- Stern, E. S. See Braude, E. A.
- Stevens, T. S. See Cowper, R. M.
- Stocken, L. A., 2:3-dimercaptopropanol ("British Anti-Lewisite") and related compounds, 592.
- Stuckey, R. E., the absorption spectra of organic compounds containing nitrogen. Part I. Derivatives of hydantoin, 331.
- Sturgeon, B. See Petrow, V.
- Sulzbacher, M. See Weizmann, C.
- Sutcliffe, F. K. See Balaban, I. E.
- Sutherland, G. B. B. M. See Sheppard, N.
- Swedlund, B. E., and Robertson, P. W., the kinetics of halogen addition to unsaturated compounds. Part XI. The halogeno-ethylenes, 630.

T.

- Taylor, H. F. W. See Gulland, J. M.
- Taylor, (Miss) M., the solubility at high temperatures of pure sucrose in water, 1678.
- Taylor, W. I. See Briggs, L. H.
- Thewlis, B. H. See Parkes, G. D.
- Thomas, A. T. See Hirst, E. L.
- Thomas, L. H., a relationship between viscosity, density, and vapour pressure of liquids, 822.
- Thomas, L. H. See also Jones, W. J.
- Thompson, H. W., some aspects of the chemistry of macromolecules. Part VI. The study of macromolecules by infra-red spectroscopy, 289.
- Thompson, H. W. See also Richards, R. E.
- Thomson, R. H., Race, E., and Rowe, F. M., the nitration of 1:5-dihydroxy- and 1:5-diacetoxy-naphthalene, 1-acetoxy-5-methoxynaphthalene, 5-methoxy-1-naphthol, and 1:5-dimethoxynaphthalene, 350.
- Threlfall, C. J. See Gulland, J. M.
- Ting, I., and Robertson, P. W., the kinetics of halogen addition to unsaturated compounds. Part X. Styrene, stilbene, and their derivatives, 628.
- Todd, A. R. See Atherton, F. R., Baddiley, J., Hassall, C. H., Howard, G. A., Hull, R., Lythgoe, B., Marrian, D. H., and Mukherjee, S.
- Tonkin, (Miss) I. M. See Stephen, (Miss) J. M. L.
- Trautner, E. M. See Mitchell, W.
- Trotman-Dickenson, A. F., and James, E. J. F., the kinetics of the reaction between tin and solutions of bromine and iodine in organic solvents, 736.
- Tuckett, R. F. See Melville, H. W.
- Turnbull, J. H. See Clemo, G. R.

U.

- Urbański, T., contributions to the chemistry of pyridine. Part II. 3- and 5-Hydroxy-2-methylpyridine, and the condensation of 5-hydroxy-2-methylpyridine with formaldehyde in alkaline medium, 132.
- Urbański, T. See also Hirst, E. L.
- Urey, H. C., the thermodynamic properties of isotopic substances, 562.
- Uri, N., thiosulphate complexes of the trivalent metals, iron, aluminium, and chromium, 335.
- the ferric thiocyanate complex in ethyl-alcoholic solution, 336.

V.

- Vaughan, J., and Phillips, L., thermal decomposition of explosives in the solid phase. Part I. The thermal decomposition in a vacuum of certain mono- and di-nitrobenzene-diazo-oxides, with a note on the kinetics of thermal breakdown of 2-nitrobenzene-4-diazo-1-oxide, 1560.
- Vidal, (Miss) W. P. See Badger, G. M.

W.

- Wakelin, R. W. See Peters, R. A.
- Waldner, (Mrs.) W. O. See Hirst, E. L.

- Walker, J.**, derivatives of 6-methoxyquinoline with basic substituents in the 4-position, 1552.
the synthesis of β -6-methoxyquinolyl(4)ethylamine, β -6-methoxyquinolyl(4)propionamide, and β -6-methoxyquinolyl(4)ethylguanidine, 1684.
- Walker, J.** See also **Stephen, (Miss) J. M. L.**
- Walker, N.** See **Evans, W. C.**
- Walls, L. P.**, researches in the phenanthridine series. Part VIII. Further investigation of trypanocidal types, 67.
- Walsh, A. D.**, co-ordinate links formed by bonding electrons; a suggestion regarding the structure of diborane, 89.
- Ward, E. R.** See **Hodgson, H. H.**
- Ward, T.**, heat of adsorption of gases on manganous-chromic oxide at room temperature, 1244.
- Wardlaw, W.** See **Ives, D. J. G.**
- Waring, W. S.** See **Marrian, D. H.**
- Wassermann, A.**, and **Weller, W. T.**, the copper sulphide-catalysed dimerisation of isobutylene, 250.
- Waters, H. D. C., Caverhill, A. R., and Robertson, P. W.**, the kinetics of halogen addition to unsaturated compounds. Part XII. Iodine catalysis of chlorine and bromine addition to ethyl cinnamate, 1168.
- Waters, W. A.** See **Robertson, A.**
- Watson, J.** See **Mann, F. G.**
- Webster, W.** See **Newbery, G.**
- Weizmann, C., Sulzbacher, M., and Bergmann, E.**, α -cyclohexyl- β -propylacrylic acid from cyclohexanol, 772.
reduction of $\alpha\beta$ -unsaturated carbonyl compounds by sodium butoxide, 851.
- Weller, W. T.** See **Wassermann, A.**
- Wells, A. F.**, the crystal structure of CaCuCl_3 and the crystal chemistry of complex halides, ABX_3 , 1662.
the crystal structure of anhydrous cupric chloride and the stereochemistry of the cupric atom, 1670.
- Whetstone, J.** See **Goodwin, T. H.**
- White, J. G.** See **Robertson, J. M.**
- Whitehurst, J. S.** See **Hodgson, H. H.**
- Whitmore, F. E.** See **Llewellyn, F. J.**
- Whytlaw-Gray, R.** See **Baxter, G. P.**
- Wiggins, L. F.**, some observations on the ring scission of 4:6-benzylidene 2:3-anhydro α -methylmannoside with ammonia, 18.
anhydrides of polyhydric alcohols. Part VII. 1:4:3:6-dianhydro-*d*- and -*l*-iditol, 1403.
- Wiggins, L. F.** See also **Gregory, (Miss) H., Montgomery, R., Newth, F. H., and Overend, W. G.**
- Wilder-Smith, A. E.** See **Lambert, A.**
- Wilkinson, J. H., and Finar, I. L.**, a study of the properties of fluorine-substituted 5-aminoacridines and related compounds. Part I. The monofluoro-5-aminoacridines, 759.
- Williams, A. H.**, the thermal decomposition of 2:2'-dichloro-diethyl sulphide, 318.
- Williams, (Miss) E.** See **Hirst, E. L.**
- Williams, G.** See **Bennett, G. M.**
- Williams, J. H.** See **Ford-Moore, A. H.**
- Williams, N. E.** See **Gridgeman, N. T.**
- Wilson, (Miss) B. M.** See **Barnett, (Miss) J. W.**
- Wilson, W.** See **Reich, W. S.**
- Winton, (Miss) B. S.** See **Hamer, (Miss) F. M.**
- Woodcock, D.** See **Haworth, R. D.**
- Woods, E. A.** See **Hirst, E. L.**
- Woolman, A. M.** See **Barber, H. J.**
- Work, T. S.**, the synthesis of antimalarial compounds related to niquidine. Part III. Alternative synthesis of dihydro- α -niquidine, 222.
- Wragg, W. R.** See **Barber, H. J., and Petrow, V.**
- Wright, (Miss) W. B.** See **Bradfield, A. E.**
- Wylie, A. W.**, hydrated oxalates of some rare-earth elements, 1687.