

INDEX OF AUTHORS, 1934.

A.

- Abbott, E. B.** See **McKenzie, A.**
- Abrams, J. T.**, and **Kipping, F. S.**, preparation of amino-alcohols. Part I., 1988.
- Achmatowicz, O.**, and **Robinson, R.**, strychnine and brucine. Part XXVI. Hofmann degradation of methylidihydrostrychnidinium-A carbonate; isolation of a fourth isomeride of dihydrostrychnidine, 581.
- Adamson, D. W.**, and **Kenner, J.**, decomposition of the nitrites of some primary aliphatic amines, 838.
- Addie, R.**, obituary notice of, 1468.
- Ainley, A. D.**, and **Robinson, R.**, the epindoline group. Part I. Various methods for the synthesis of epindolidiones, 1508.
- Aliazam, M.**, **Hunter, R. F.**, and **Khan, N. A.**, aminobenzthiazoles. Part XIII. The nature of the bromo-addition compounds of the 5-bromo-1-alkylaminobenzthiazoles obtained from *s-p*-bromo-phenylalkylthioureas and bromine, 708.
- Allmand, A. J.** See **Bateman, J. B.**
- Anderson, J. S.**, complex compounds of the olefines with metallic salts. Part I. Zeise's salt, 971.
- Andrew, L. W.**, and **Hammick, D. L.**, the *aci*-form of trinitromethane, 244.
- Appleby, M. P.**, **Crawford, F. H.**, and **Gordon, K.**, vapour pressures of saturated solutions; lithium chloride and lithium sulphate, 1665.
- Appleyard, (Miss) M. E. S.** See **Norrish, R. G. W.**
- Armstrong, G.** See **Butler, J. A. V.**
- Armstrong, K. F.**, and **Robinson, R.**, diacetyleneethylene, 1650.
- Ashmore, J. E.**, and **Wheeler, R. V.**, studies in the composition of coal; the thermal decomposition of lignites, 474.
- Ashton, R.**, and **Smith, J. C.**, addition of hydrogen bromide to double bonds; undecenoic acid, 435. addition of hydrogen bromide to double bonds; ethyl undecenoate, undecenol, and undecenyl acetate, 1308.
- Ashworth, D. R.** See **Chattaway, F. D.**
- Askew, F. A.**, **Bullock, E.**, **Smith, H. T.**, **Tinkler, R. K.**, **Gatty, O.**, and **Wolfenden, J. H.**, thermochemistry of solutions. Part II. Heats of solution of electrolytes in non-aqueous solvents, 1368.
- Askew, F. A.**, **Jackson, N. S.**, **Gatty, O.**, and **Wolfenden, J. H.**, thermochemistry of solutions. Part I. Calorimeter for use with non-aqueous solvents, 1362.
- Astin, S.**, and **Riley, H. L.**, selenium dioxide; a new oxidising agent. Part IV. Preparation and properties of ethyl ketohydroxysuccinate, 844.
- Ault, R. G.**, **Haworth, W. N.**, and **Hirst, E. L.**, constitution of ascorbic acid; action of sodium hypochlorite on *α*-methoxy-acid amides, 1722.
- Ayling, E. E.** See **Hinkel, L. E.**

B.

- Backeberg, O. G.**, and **Kermack, W. O.**, 2-hydroxy-6-methoxy-4-methylquinoline, 377.

- Baddeley, G.**, and **Kenner, J.**, oxidation of 4-*n*-propylphenol to 2-*n*-propylquinol, 633.
- Bahl, R. K.** See **Partington, J. R.**
- Baird, D. K.**, **Haworth, W. N.**, **Herbert, R. W.**, **Hirst, E. L.**, **Smith, F.**, and **Stacey, M.**, ascorbic acid and synthetic analogues, 62.
- Baker, J. W.**, mechanism of aromatic side-chain reactions with special reference to the polar effects of substituents. Part II. Kinetic studies of the interaction of benzyl bromides with (1) pyridine, (2) aqueous alcohol, and (3) silver nitrate, 987. correction to "the synthesis of substances analogous to bile acid degradation products. Part II," 1467.
- Baker, W.**, 4:6- and 2:4-diacytlyresorcinol, 71. derivatives of naphthalene-2:3-dicarboxylic acid, 1413. condensation of catechol with acetone, 1678. new factor controlling certain chelations, with special reference to disubstitution in the resorcinol nucleus, 1684. attempts to synthesise 5:6-dihydroxyflavone (primetin), 1953.
- Baker, W.**, **Jukes, E. H. T.**, and **Subrahmanyam, C. A.**, derivatives of 1:2:3:4-tetrahydroxybenzene. Part III. Synthesis of dill apiole and the extension of the Dakin reaction, 1681.
- Baldwin, A. W.**, and **Robinson, R.**, attempts to find new antimalarials. Part VIII. Derivatives of 8-aminoalkylaminoquinoline, 1264.
- Banks, W. H.**, dissociation of the selenates of zinc and cadmium in water, 1010.
- Barnett, E. de B.**, **Goodway, N. F.**, **Higgins, A. G.**, and **Lawrence, C. A.**, action of maleic anhydride upon some anthracene derivatives, 1224.
- Barnett, (Miss) M. M.**, **Gillieson, A. H. C. P.**, and **Kermack, W. O.**, arsonic and stibonic acids derived from quinoline and acridine. Part I., 433.
- Barratt, S.** See **MacWalter, R. J.**
- Barrer, R. M.**, mechanism of activated diffusion through silica glass, 378.
- Barrow, F.**, and **Thorneycroft, F. J.**, *N*-oximinoethers. Part III. Condensation of phenylchloroacetonitrile with nitroso-compounds; stereoisomeric *N*-phenyl ethers of oximinophenylacetonitrile, 722.
- Bartlett, R. G.**, and **McClelland, E. W.**, dismutation of some disulphides. Part III. Molecular rearrangements following dismutation, 818.
- Bassett, H.**, notes on the system lime-water, and on the determination of calcium, 1270.
- Bassett, H.**, and **Sanderson, (Miss) I.**, the system cadmium sulphate-cobalt sulphate-water, 1116.
- Bateman, J. B.**, and **Allmand, A. J.**, photochemical union of hydrogen and chlorine. Part III. Effect of wave-length on quantum efficiency; experiments with dispersed light, 157.
- Batty, W. E.** See **Hodgson, W. E.**
- Baughan, E. C.** See **Bell, R. P.**
- Baw, H.**, **Bennett, G. M.**, and **Dearns, (Miss) P.**, stereoisomerism of disulphoxides and related substances. Part IX. Disulphoxides in the thianthren series, 680.

- Beattie, R. W.**, and **Whitmore, F. C.**, synthesis of nine chloroiodonaphthalenes, 50.
- Bell, A. E.** See **Chattaway, F. D.**
- Bell, D. J.**, synthesis of 2:3:6-tribenzoyl *a*-methyl-glucoside, 1177.
- Bell, F.**, replacement of "obstacle" groups in optically active diphenyls, 835.
- Bell, F.**, and **Cohen, R.**, derivatives of *m*-phenylene-diamine, 243.
- Bell, (Miss) J. C.**, and **Robinson, R.**, experiments on the synthesis of anthocyanins. Part XX. Synthesis of malvidin 3-galactoside and its probable occurrence as a natural anthocyanin. Part XXIII. Glucosides of petunidin chloride, 813, 1604.
- Bell, R. P.**, **Baughan, E. C.**, and **Vaughan-Jackson, M. W.**, cryoscopy and association in *p*-chlorotoluene, 1969.
- Bell, S. H.**, and **Philip, J. C.**, heat of wetting of charcoals of graded activity, in relation to adsorptive capacity and retentivity, 1164.
- Bennett, G. M.**, **Earp, D. P.**, and **Glasstone, S.**, valency angle of oxygen, 1179.
- Bennett, G. M.**, and **Glasstone, S.**, valency angle of sulphur, 128.
- Bennett, G. M.** See also **Baw, H.**
- Bhagvat, M. B.** See **Evans, W. C.**
- Bhatt, C. T.** See **Shah, M. S.**
- Biggart, J. W.**, obituary notice of, 2012.
- Bills, E. J.** See **Duff, J. C.**
- Birch, S. F.**, preparation of triethyl-, triisobutyl-, and triphenyl-thallium, 1182.
- Blagden, J. W.**, and **Huggett, W. E.**, phosphoric acid compounds of menthols and other alcohols, 317.
- Blount, B. K.**, and **Robinson, R.**, strychnine and brucine. Part XXIX. *N*(*b*)-Methyldihydrochano-pseudostrychnine, 595.
- Bodycote, E. W.**, **Haworth, W. N.**, and **Hirst, E. L.**, conversion of 2-*p*-toluenesulphonyl β -methylglucoside into methyl *epi*glucosamine, 151.
- Bolam, T. R.**, and **Muir, J. J.**, ionic interchange in sulphur sols. Part III. Mechanism of coagulation, 754.
- Borland, W. D.**, obituary notice of, 1468.
- Bowen, E. J.**, and **De la Praudière, E. L. A. E.**, photoreactions of liquid and dissolved ketones. Part I., 1503.
- Bowen, E. J.**, and **Horton, A. T.**, photoreactions of liquid and dissolved ketones. Part II., 1505.
- Bowen, E. J.**, and **Steadman, F.**, photo-oxidation of rubrene, 1098.
- Bradfield, A. E.**, **Francis, E. M.**, and **Simonsen, J. L.**, constituents of Indian turpentine from *Pinus longifolia*, Roxb. Part III. (continued), 188.
- Bradfield, A. E.**, **Jones, E. R.**, and **Simonsen, J. L.**, syntheses in the sesquiterpene series. Part I., 1810.
- Bradford, B. W.**, heterogeneous combustion of carbonic oxide on quartz: water as a negative catalyst, 73.
- catalytic and electrical properties of metallic surfaces. Part I. A silver surface catalysing the combustion of carbonic oxide, 1276.
- Bradford, B. W.**, and **Finch, G. I.**, some properties of arced gases, 360.
- Bradford, B. W.**, **Finch, G. I.**, and **Prior, (Miss) A. M.**, ignition of some explosive mixtures by modified coil discharges, 75.
- Bradley, R. S.**, the rate of reactions in solution, 1910.
- Bradley, W.**, and **Robinson, R.**, cationoid reactivity of aromatic compounds. Part II. The action of potassium cyanide on 1-nitroso-2-naphthol and 1-benzeneazo-2-naphthol, 1484.
- Brady, O. L.**, and **Cunningham, R. N.**, nitration of alkylbenzenes. Part II. Nitro-derivatives of *n*-propylbenzene, 121.
- Brady, O. L.**, and **Day, J. N. E.**, nitration of alkylbenzenes. Part I. Nitration of *p*-ethyltoluene, 114.
- Brady, O. L.**, and **Lahiri, J. K.**, nitration of alkylbenzenes. Part III. Orientation of dinitro-*p*-tert-butyltoluene, 1954.
- Branson, F. W.**, obituary notice of, 2012.
- Briggs, L. H.**, and **Robinson, R.**, strychnine and brucine. Part XXVII. Methoxymethylchanodihydrostrychnone and the constitution of strychnidine, 590.
- Bright, N. F. H.**, and **Garner, W. E.**, nucleus formation on crystals of copper sulphate pentahydrate, 1872.
- Briscoe, H. V. A.**, and **Lowe, A. R.**, laboratory production of sintered glassware, 1379.
- Briscoe, H. V. A.** See also **Emeléus, H. J.**
- Britton, H. T. S.**, physicochemical studies of complex acids. Part XIII. Constitution of quinquevalent and quadrivalent vanadium solutions, with a note on their respective reduction and oxidation, 1842.
- Britton, H. T. S.**, and **German, W. L.**, physicochemical studies of complex acids. Part XII. Precipitation of the normal and complex tungstates and molybdates of the alkaline-earths and of silver, 1156.
- Britton, H. T. S.**, and **Jackson, (Miss) P.**, physicochemical studies of complex formation involving weak acids. Part VIII. Optical rotation of solutions of tartaric acid, tartaric acid during neutralisation, and of neutral tartrates, with a note on the effect of sodium chloride. Part IX. Complex formation between boric and tartaric acids. Part X. Complex formation between tartaric acid and (*a*) arsenic acid, (*b*) arsenious acid, (*c*) antimonous hydroxide, in acid and alkaline solutions; the dissociation constants of arsenious and arsenic acids. Part XI. Complex formation between tartaric acid and (*a*) molybdic acid, (*b*) tungstic acid, 998, 1002, 1048, 1055.
- Brown, R. R. H.** See **Rule, H. G.**
- Brown, W. R.**, and **Mason, F. A.**, condensation of 1:8-naphthalyl chloride with *m*-ethylcarbonatodimethylaniline, 651.
- Browne, D. W.**, and **Dyson, G. M.**, inhibitory effect of substituents in chemical reactions. Part III. The reactivity of the *isothiocyanato*-group in substituted arylthiocarbimides, 178.
- Browne, D. W.** See also **Dyson, G. M.**
- Brünnich, J. C.**, obituary notice of, 559.
- Bryant, S. A.** See **Johnson, C. H.**
- Bryce, G.** See **Caven, R. M.**
- Buchan, S.**, and **Scarborough, H. A.**, substitution in the 2-methoxynitrodiphenyl ethers, 705.
- Bull, (Miss) J. E.**, **Fitzgerald, J. S.**, **Packer, J.**, and **Thorpe, J. F.**, chemistry of the glutaconic acids. Part XIV. Catalytic effect of alkalis on the rate of racemisation of *l-trans-ay*-dimethylglutaconic acid, 1653.
- Bullock, E.** See **Askew, F. A.**
- Burawoy, A.**, and **Gibson, C. S.**, organic compounds of gold. Part III. Monoethyldibromo-gold (monoethylgold dibromide), 860.
- Burstall, F. H.** See **Morgan, G. T.**
- Burton, H.**, mechanism of anionotropic change and the fate of the mobile anion, 1268.
- Burton, H.**, and **Shoppee, C. W.**, anionotropic and prototropic changes in cyclic systems. Part II. Hydroxy-3:4-diphenyl-5-benzylidene-cyclopentenones. Part III. The isomeric chloro-3:4-diphenyl-cyclopentenones. Part IV. Hydroxy-3:4-diphenyl-5-isopropylidene-cyclopentenones, 197, 201, 205.
- Bury, C. R.**, calibration of Ostwald viscometers, 1380.
- Bury, C. R.**, and **Jenkins, H. O.**, freezing points of some benzene solutions, 688.

- Bush, R. A.**, obituary notice of, 1469.
- Butler, J. A. V.**, and **Armstrong, G.**, electrolytic properties of hydrogen. Part I. Hydrogen as an anodic depolariser. Part II. Effect of anodic polarisation of the platinum electrodes, 743.
- Butler, J. A. V.**, **Wightman, A.**, and **Maclellan, W. H.**, adsorption at the surface of solutions. Part III. Surface structure of solutions of the lower aliphatic alcohols, 528.
- Butler, J. A. V.**. See also **Himsworth, F. R.**
- Byrne, G. T.**, **Linstead, R. P.**, and **Lowe, A. R.**, phthalocyanines. Part II. Preparation of phthalocyanine and some metallic derivatives from *o*-cyanobenzamide and phthalimide, 1017.
- C.**
- Cahn, R. S.**, dimorphism of rotenone, 1129.
- Calloway, T. C.**. See **Morton, R. A.**
- Cameron, J. M. L.**, and **Storrie, F. R.**, reactions of nitrosulphonyl chlorides. Part III. Identification and characterisation of aldehydes and ketones as nitrobenzenesulphonhydrazones, 1330.
- Carpenter, (Miss) B. R.**, and **Turner, E. E.**, action of Grignard reagents on 4-diphenylpiperidinomethyl ketone and on *N*-methylcinchotoxine, 869.
- Carrington, H. C.**, **Haworth, W. N.**, and **Hirst, E. L.**, preparation of arabinose from gum acacia (gum kordofan), 1653.
- Cattaneo, P.**. See **Deulofeu, V.**
- Caven, R. M.**, obituary notice of, 1469.
- Caven, R. M.**, and **Bryce, G.**, isotherms of some ternary systems of metal perchlorates in aqueous solution at 30°, 514.
- Challenger, F.**, and **North, H. E.**, production of organo-metalloidal compounds by micro-organisms. Part II. Dimethyl selenide, 68.
- Challenger, F.**, and **Richards, O. V.**, organo-derivatives of bismuth and thallium, 405.
- Challenger, F.**, and **Rothstein, E.**, nitration of phenyl derivatives of mercury, thallium, lead, bismuth, tin, and iodine, 1258.
- Challinor, S. W.**, **Haworth, W. N.**, and **Hirst, E. L.**, polysaccharides. Part XVII. Constitution and chain length of levan, 676. carbohydrates of grass; isolation of a polysaccharide of the levan type, 1580.
- Chandrasena, J. P. C.**, obituary notice of, 1471.
- Chapman, A. W.**, studies of the Beckmann change. Part II. Kinetics of the spontaneous rearrangement and solvent effects, 1550.
- Charlesworth, E. H.**, and **Robinson, R.**, 1:3:5:8-tetrahydroxy-2-methylnaphthoquinone, 1531. a synthesis of pyrillyum salts of anthocyanidin type. Part XXI. The 6-hydroxy-derivatives of the chief anthocyanidins, 1619. an attempted flavonol synthesis, 1651.
- Chattaway, F. D.**, and **Ashworth, D. R.**, action of halogens upon the arylazocetylacetones, 930. action of chlorine, bromine, and iodine monochloride upon arylazocetoacetates and related compounds, 1985.
- Chattaway, F. D.**, and **Bell, A. E.**, isomeric 6:6'-di-(2:4-bistrichloromethyl-1:3-benzodioxinyl)sulphones, 43.
- Chattaway, F. D.**, and **Irving, H.**, action of alkalis upon substituted benzodioxins, 325.
- Chattaway, F. D.**, and **James, E. J. F.**, condensation of chloral and bromal with diamides, 109.
- Chattaway, F. D.**, and **Muir, R. J. K.**, formation of carbinals in the condensation of aldehydes with hydrocarbons, 701.
- Christie, E. W.**. See **McKenzie, A.**
- Clark, J.**, and **Read, J.**, new methods in stereochemistry. Part I. A new method for preparing pure *d*- and *l*-borneol. Part II. New ways of resolving *dl*-menthol, 1773, 1775.
- Clarkson, C. E.**, and **Malkin, T.**, alternation in long-chain compounds. Part II. An X-ray and thermal investigation of the triglycerides, 666.
- Clay, H.**. See **Hodgson, H. H.**
- Clemo, G. R.**, β -santonin, 1343.
- Clemo, G. R.**, and **Holmes, T.**, synthesis of pyridyl-pyrazoles, 1739.
- Clemo, G. R.**, and **McIlwain, H.**, a new phenazine synthesis; the phenazhydrins. Part I., 1991.
- Cocking, A. T.**, obituary notice of, 2014.
- Cohen, A.**, **Cook, J. W.**, **Hewett, C. L.**, and **Girard, A.**, synthesis of compounds related to the sterols, bile acids, and oestrus-producing hormones. Part III. 7-Methoxy-1:2-cyclopentenophenanthrene, a dehydrogenation product of oestrin and equilenin, 653.
- Cohen, R.**. See **Bell, F.**
- Connolly, J. M.**, and **Dyson, G. M.**, constitution and reactions of thiocarbonyl tetrachloride. Part I. Reaction with arylamines, 822.
- Cook, A. H.**, and **Linstead, R. P.**, fused carbon rings. Part II. Synthesis of *cis-a*-0:3:3-bicyclooctanone and related compounds. Part III. Synthesis of *cis*- and *trans*-cyclopentane-1-carboxy-2-acetic acids and the stability of their anhydrides, 946, 956.
- Cook, J. W.**, β -isopropynaphthacene, 1412.
- Cook, J. W.**, and **Haslewood, G. A. D.**, synthesis of 5:6-dimethyl-1:2-benzanthraquinone, a degradation product of deoxycholic acid, 428.
- Cook, J. W.**, and **Hewett, C. L.**, synthesis of compounds related to the sterols, bile acids, and oestrus-producing hormones. Part II. Formation of some tetracyclic hydroaromatic hydrocarbons, 365.
- Cook, J. W.**, **Hewett, C. L.**, **Mayneord, W. V.**, and **Roe, (Miss) E.**, synthesis of compounds related to the sterols, bile acids, and oestrus-producing hormones. Part IV. Constitution of Diels's hydrocarbon "C₂₅H₄₂" from cholesterol, 1727.
- Cook, J. W.**. See also **Cohen, A.**
- Coulson, E. A.**, homologues of naphthacene. Part I. 2:6-Dimethylnaphthacene, 1406.
- Coward, H. F.**, ignition temperatures of gases; "concentric tube" experiments of Dixon, 1382.
- Cowie, D. W.**, and **Gibson, D. T.**, mobility of groups containing a sulphur atom. Part III., 46.
- Cox, E. G.**, **Saenger, H.**, and **Wardlaw, W.**, structure of the thio-ether compounds of platinous and palladous chlorides, 182.
- Cox, E. G.**. See also **Pinkard, F. W.**
- Crawford, A. B.**, and **Wilson, F. J.**, a resolution of benzoin, 1122.
- Crawford, C. E. J.**. See **Taylor, T. W. J.**
- Crawford, F. H.**. See **Applebey, M. P.**
- Crone, H. G.**. See **Norrish, R. G. W.**
- Crook, J. H.**. See **Hodgson, H. H.**
- Cullinane, N. M.**, **Davey, H. G.**, and **Padfield, H. J. H.**, investigations in the diphenylene oxide series. Part IV., 716.
- Cunningham, R. N.**. See **Brady, O. L.**
- D.**
- Damerell, A. G. H.**, and **Emeléus, H. J.**, oxidation of arsenic in nitrous oxide and in oxygen, 974.
- Davey, H. G.**. See **Cullinane, N. M.**
- Davies, C. W.**. See **Money, R. W.**

- Davies, E. S., and Hartshorne, N. H., identification of some aromatic nitro-compounds by optical crystallographic methods, 1830.
- Davies, W. C., and Evans, S. U., rates of formation of some quaternary phosphonium salts, 244.
- Davies, W. C., and Lewis, W. P. G., factors affecting -onium salt formation, 1599.
- Davies, W. H., Heilbron, I. M., and Jones, W. E., unsaponifiable matter from the oils of elasmobranch fish. Part X. Structure of batyl alcohol and the synthesis of β -octadecyl glyceryl ether, 1232.
- Dawson, H. M., and Pycock, E. R., kinetics of the alkaline hydrolysis of the halogen-substituted acetates, 778.
- Day, J. N. E., Hughes, E. D., Ingold, C. K., and Wilson, Christopher L., hydration of salts with heavy water, and constitution of salt hydrates, 1593.
- Day, J. N. E. See also Brady, O. L.
- Dearns, (Miss) P. See Baw, H.
- De Gouveia, A. J. A. See Morton, R. A.
- De la Praudière, E. L. A. E. See Bowen, E. J.
- Denbigh, K. G., and Whytlaw-Gray, R., preparation and properties of disulphur decafluoride, 1346.
- Dent, C. E., and Linstead, R. P., phthalocyanines. Part IV. Copper phthalocyanines, 1027.
- Dent, C. E., Linstead, R. P., and Lowe, A. R., phthalocyanines. Part VI. Structure of the phthalocyanines, 1033.
- Desai, R. D., Hunter, R. F., and Khalidi, A. R. K., unsaturation and tautomeric mobility of heterocyclic compounds. Part V. Benzoxazoles, 1186.
- Deulofeu, V., Cataneo, P., and Mendiveizua, G., action of pyridine-acetic anhydride on aldose oximes; production of hexa-acetyl aldomannose-oxime, 147.
- De Worms, C. G. M. See Roberts, K. C.
- Dippy, J. F. J., and Williams, F. R., chemical constitution and the dissociation constants of monocarboxylic acids. Part I. Some substituted phenylacetic acids. Part II., 161, 1888.
- preparation of some fluoro-aromatic acids, 1466.
- Dixon, B. E., iridium hydroxopentammines, 34.
- Dorée, C., and Petrow, V. A., hydrogenation in the sterol group by the action of selenium, 1129.
- Downing, E., and Orr, W. B., preparation and cationoid reactivity of dichlorodinitromethane, 1671.
- Drew, H. D. K., interpretation of the phenoxotellurine dibisulphate reaction with platinous compounds; micro-analysis of platinum and tellurium, 1790.
- Drew, H. D. K., and Head, F. S. H., preparation of isobutylenediamine, 49.
- chemical evidence for the planar structure of plato-tetrammines, 221.
- Drew, H. D. K., Tress, H. J., and Wyatt, G. H., micro-determination of platinum and iridium, and of associated chlorine and potassium, 1787.
- Drew, H. D. K., and Wyatt, G. H., structural and stereochemical relationships among the disulphines and diammines of platinum and palladium, 56.
- Druse, J. G. F., trimethylrhodium, 1129.
- Duff, (Miss) D. A., and Ingold, C. K., modes of addition to conjugated unsaturated systems. Part VII. Addition of hydrogen cyanide and methyl malonate to methyl cinnamylidenemalonate, 87.
- Duff, J. C., and Bills, E. J., reactions between hexamethylenetetramine and phenolic compounds. Part II. Formation of phenolic aldehydes; distinctive behaviour of *p*-nitrophenol, 1305.
- Dunlop, (Miss) H. G., Macrae, T. F., and Tucker, S. H., dicarbazyls. Part VI. Synthesis of 1:1'-dicarbazyl, 1672.
- Dunn, J. L., Heilbron, I. M., Phipers, R. F., Samant, K. M., and Spring, F. S., studies in the sterol group. Part XIX. Constitution of ergosterol, 1576.
- Dunn, J. L., and Stevens, T. S., degradation of quaternary ammonium salts. Part VIII. Necessary structural conditions for migration in radicals, 279.
- Dunn, L. J., and Philip, J. C., acid salts in systems of the type monobasic acid-alkaline-earth salt-water, 658.
- Durrant, (Miss) A. A., Pearson, T. G., and Robinson, P. L., physical relationships amongst the hydrides of elements of the fifth group with special reference to association in these compounds, 730.
- Dutta, U. C. See Peacock, D. H.
- Dyke, W. J. C., and King, H., constitution of neoarsphenamine, 1707.
- Dyson, G. M., studies in the colour reactions of organic compounds. Part I. Colour reactions of arylthioureas, 174.
- Dyson, G. M., and Browne, D. W., reactions of thiocarbonyl chloride. Part III. Structure of the so-called "thiocarbonyl benzidine," 318.
- Dyson, G. M. See also Browne, D. W., and Connolly, J. M.
- Dyson, R. J. H. See Hodgson, H. H.

E.

- Earp, D. P. See Bennett, G. M.
- Elliott, R. L. See Hodgson, H. H.
- Ellis, C. P., surface reaction between acetylene and iodine, 726.
- Emeléus, H. J., James, F. W., King, A., Pearson, T. G., Purcell, R. H., and Briscoe, H. V. A., the isotopic ratio in hydrogen: a general survey by precise density comparisons upon water from various sources. Parts I. and II., 1207, 1948.
- Emeléus, H. J. See also Damerell, G. H.
- English, R., obituary notice of, 1472.
- Evans, S. U. See Davies, W. C.
- Evans, W. C., Ramage, G. R., and Simonsen, J. L., the caryophyllenes. Part I., 1806.
- Evans, W. C., Ridgion, J. M., and Simonsen, J. L., preparation of camphorquinone, 137.
- Evans, W. C., Simonsen, J. L., and Bhagvat, M. B., bromination of camphorquinone, 444.
- Everard, A. G., obituary notice of, 559.

F.

- Fairbrother, F., determination of dipole moments in solution, 1846.
- Farmer, E. H., and Hughes, L. A., catalytic hydrogenation of unsaturated compounds. Part II. Step-wise reduction of conjugated acids. Part III. Selectivity of attack in relation to the nature of the catalyst, 304, 1929.
- muconic and hydromuconic acids. Part VI. *cis*- and *trans*- Δ^a -Dihydromuconic acids, 1938.
- Fawcett, E. W., and Gibson, R. O., influence of pressure on a number of organic reactions in the liquid phase, 386.
- influence of pressure on the rate of formation of cetylpyridinium halides, 396.
- Ferrell, (Miss) E., Pearson, T. G., and Robinson, P. L., formation of alkali-metal hydrides by atomic hydrogen, 7.
- Ferrell, (Miss) E., Ridgion, J. M., and Riley, H. L., potentiometric investigation of electrolytic dissociation. Part II. Copper and cadmium carboxylic salts, 1440.

- Finch, G. I., and Wilman, H., lattice dimensions of zinc oxide, 751.
 Finch, G. I. See also Bradford, B. W.
 Fischer, H., chlorophyll-*A*, 245.
 Fisher, (Miss) N. I., and Hamer, (Miss) F. M., oxacyanines, 962.
 cyanine dyes containing an isoquinoline nucleus, 1905.
 Fitzgerald, J. S. See Bull, (Miss) J. E.
 Fleming, G. H. See Whitmore, F. C.
 Fowler, M. B., obituary notice of, 1472.
 France, H. V. See Hodgson, H. H.
 Francis, E. M. See Bradfield, A. E.
 Fraser, H. B., and Kon, G. A. R., effect of the nitro-group in three-carbon tautomerism, 604.
 Freeman, (Miss) D. See Laybourn, K.
 Fry, G., obituary notice of, 1473.

G.

- Ganguly, S. N., and Le Févre, R. J. W., volume effects of alkyl groups in aromatic compounds. Part III. The dinitration of 3-chloro- and 3-bromo-*p*-cymene. Part IV. The dinitration of 2-chlorocymene. Part VI. Constitution of the iodo-*p*-cymene formed by direct iodination of the hydrocarbon, 848, 852, 1697.
 Garner, W. E., initiation of the detonation wave in solid explosives, 720.
 Garner, W. E. See also Bright, N. F. H., and King, (Miss) A. M.
 Garratt, A. P., and Thompson, H. W., spectra and photochemical decomposition of metallic carbonyls. Part II. Photochemical data, 1817.
 the thermal decomposition and oxidation of nickel carbonyl, 1822.
 Garratt, A. P. See also Thompson, H. W.
 Gatty, O. See Askew, F. A., and Jackson, N. S.
 German, W. L. See Britton, H. T. S.
 Gibby, C. W., the systems acetone-sodium hydroxide-water and acetone-potassium hydroxide-water at 0°, 9.
 Gibson, C. S. See Burawoy, A.
 Gibson, D. T. See Cowie, D. W.
 Gibson, R. O. See Fawcett, E. W., and Swallow, J. C.
 Gillieson, A. H. C. P. See Barnett, (Miss) M. M.
 Girard, A. See Cohen, A.
 Glass, H. M., and Madgin, W. M., viscosities of aqueous solutions of electrolytes. Part I. Sodium sulphate solutions over the temperature range 25—40°, 1124.
 equilibrium constants in terms of activities (cryoscopic). Part IV. The dissociation of *p*-toluidine *o*-tolyloxide in benzene and in *p*-dichlorobenzene, 1292.
 Glass, H. M., Madgin, W. M., and Hunter, F., equilibrium constants in terms of activities (cryoscopic). Part III. Dissociation of quinoline *o*-chlorophenoxyde in benzene and in *p*-dichlorobenzene, 260.
 Glasstone, S., and Hickling, A., studies in electrolytic oxidation. Part IV. Anodic polarisation in halide solutions. Part V. Formation of hydrogen peroxide by electrolysis with a glow-discharge anode. Part VI. Anodic oxidation of acetates; mechanism of the Kolbe and the Hofer-Moest reaction in aqueous solution, 10, 1772, 1878.
 Glasstone, S. See also Bennett, G. M.
 Goldsworthy, L. J., the reaction of ethyl sodioacetooacetate and tetramethylene dibromide, 377.
 Goodway, N. F. See Barnett, E. de B.

- Gordon, K. See Applebey, M. P.
 Goss, F. R., dipole moments of liquids, 696.
 vector analysis of dipole moments, 1467.
 Gow, (Miss) E. R. L. See Roger, R.
 Gray, G., obituary notice of, 1474.
 Grieves, W. S. M., and Hey, D. H., amphoteric aromatic substitution. Part I. Reactions of sodium benzenediazooate and nitrosoacetanilide, 1797.
 Griffiths, P. H., Walkley, W. A., and Watson, H. B., nitration of anisole, 631.
 Grigor, J. See Mills, A. K.
 Groenewoud, P., and Robinson, R., fission of aryl-trimethylammonium chlorides in aqueous solution by means of sodium amalgam, 1692.
 Grove, (Miss) K. E., Inubuse, M., and Robinson, R., experiments on the synthesis of anthocyanins. Part XXIV. Cyanidin 3-biosides and a synthesis of mecoecyanin, 1608.
 Grove, (Miss) K. E., Levy, L. F., Nair, P. V., and Robinson, R., experiments on the synthesis of anthocyanins. Part XXVI. Resocallistephan and reso-oenin chloride, 1614.
 Groves, L. G., and Sugden, S., dipole moments of vapours. Part I, 1094.
 Grubb, W. J., and Read, J., *d*-Δ³, 8(9)-*p*-menthadiene from *d*-pulegone, 242.
 Grubb, W. J. See also Read, J.
 Guénault, E. M., and Wheeler, R. V., the combination of hydrogen and oxygen in direct-current discharges, 1895.
 Gulati, K. C., Seth, S. R., and Venkataraman, K., synthetical experiments in the chromone group. Part XIII. Hydroxy-2-styrylchromones, 1765.
 Gulland, J. M., Holiday, E. R., and Macrae, T. F., constitution of the purine nucleosides. Part II., 1639.
 Gulland, J. M., and Morris, C. J. O. R., β-hydroxy-glutamic acid, 1644.

H.

- Haase, R. See Weissberger, A.
 Hamer, (Miss) F. M. See Fisher, (Miss) N. I.
 Hammick, D. L., New, R. G. A., and Williams, R. B., electric dipole moments of nitromesitylene and of the bimolecular forms of nitrosomesitylene and 2-nitroso-2:5-dimethylhexane, 29.
 Hammick, D. L., and Wilmut, H. F., parachors of some substituted methanes, 32.
 Hammick, D. L. See also Andrew, L. W.
 Hannon, J., and Kenner, J., an instance of the action of air in determining the course of bromination, 138.
 Haq, M. A., Ray, J. N., and Tuffail-Malkana, M., quinoline derivatives. Part III. β-2-Amino-4:5-dimethoxybenzoylpropionic acid and its derivatives, 1326.
 Hardy, D. V. N., interaction of carbon monoxide and alcohols. Part I. Synthesis of acetic acid, 1335. preparation of arylcarbimides, 2011.
 Harper, S. H., Kon, G. A. R., and Ruzicka, F. C. J., syntheses of polycyclic compounds related to the sterols. Part II. Diels's hydrocarbon C₁₈H₁₆, 124.
 Harris, T. L., Hirst, E. L., and Wood, C. E., optical rotatory dispersion in the carbohydrate group. Part IV. Tetramethyl γ-mannolactone, 1825.
 Hartshorne, N. H. See Davies, E. S.
 Haslewood, G. A. D. See Cook, J. W.
 Hassan, A. See Morton, R. A.
 Haworth, J., obituary notice of, 1474.

- Haworth, R. D., Mayvin, C. R., and Sheldrick, G.**, synthesis of alkylphenanthrenes. Part VI. Attempts to synthesise the hydrocarbon "C₁₆H₁₄" derived from strophantidin, 454.
- Haworth, R. D.**, constituents of guaiacum resin. Part II. Synthesis of *dl*-guaiaretic acid dimethyl ether, 1423.
- Haworth, R. D., and Sheldrick, G.**, synthesis of alkylphenanthrenes. Part VII. 7-Hydroxy-1:2-dimethylphenanthrene. Part VIII. Attempted synthesis of 4:5-dimethylphenanthrene, 864, 1950.
- Haworth, W. N., Hirst, E. L., Jones, J. K. N., and Smith, F.**, synthesis of ascorbic acid and its analogues: addition of hydrogen cyanide to osones, 1192.
- Haworth, W. N., Hirst, E. L., and Oliver, (Miss) E.**, polysaccharides. Part XVIII. The constitution of xylan, 1917.
- Haworth, W. N., Hirst, E. L., and Panizzon, L.**, isolation of a crystalline dimethyl anhydromethylhexoside; characterisation of 3:4:6-trimethyl glucose, 154.
- Haworth, W. N., Hirst, E. L., and Reynolds, R. J. W.**, maltal and 4-*a*-glucosidomannose, 302.
- Haworth, W. N., Hirst, E. L., and Smith, F.**, methyl ethers of ascorbic acid, 1556.
- Haworth, W. N., Hirst, E. L., and Zilva, S. S.**, physiological activity of synthetic ascorbic acid, 1155.
- Haworth, W. N.**. See also Ault, R. G., Baird, D. K., Bodcote, E. W., Carrington, H. C., and Challinor, S. W.
- Head, F. S. H.**. See Drew, H. D. K.
- Healey, (Miss) M., and Robinson, R.**, some derivatives of hydroxyquinol, including a synthesis of pyrylium salts of anthocyanidin type. Part XXII., 1625.
- Heath, J. W. E.**, obituary notice of, 2014.
- Heilbron, I. M., Hey, D. H., and Lowe, A.**, studies in the pyrone series. Part I. Alkyl benzo- γ -pyrones and α -naphtha- γ -pyrones, 1311.
- Heilbron, I. M., Hey, D. H., and Lythgoe, B.**, studies in the pyrone series. Part II. Chromones and coumarins derived from 2-hydroxy-4-methoxy-aceto- and -propio-phenones, 1581.
- Heilbron, I. M., and Howard, G. F.**, styrylpyrylium salts. Part XVI. The conversion of coumarins into *isospiro*pyrans, 1571.
- Heilbron, I. M., Moffet, G. L., and Spring, F. S.**, non-saponifiable matter of shea nut fat. Part I., 1583.
- Heilbron, I. M., Phipers, R. F., and Wright, H. R.**, chemistry of the algae. Part I. The algal sterol fucosterol, 1572.
- Heilbron, I. M.**. See also Davies, W. H., and Dunn, J. L.
- Henry, T. A., and Solomon, W.**, modified cinchona alkaloids. Part I. Apoquinine and apoquinidine, 1923.
- Henstock, H.**, solubilities of metal and ammonium salts of various organic acids in methyl alcohol and acetone, 1340.
- Herbert, R. W., Hirst, E. L., and Wood, C. E.**, optical rotatory dispersion in the carbohydrate group. Part III. Tetramethyl α -methylglucopyranoside and tetramethyl α -methylmannopyranoside, 1151.
- Herbert, R. W.**. See also Baird, D. K.
- Hewett, C. L.**. See Cohen, A., and Cook, J. W.
- Hey, D. H.**, amphoteric aromatic substitution. Part II. Reactions of benzoyl peroxide and phenylazo-triphenylmethane, 1966.
- Hey, D. H., and Jackson, E. R. B.**, nuclear alkylation of aromatic bases. Part II. Action of methyl alcohol on the hydrochlorides of 2- and 4-aminodiphenyl, 645.
- Hey, D. H.**. See also Grieve, W. S. M., and Heilbron, I. M.
- Hibbott, H. W., and Wheeler, R. V.**, studies in the composition of coal; method of estimating the decomposition points of bituminous coals, 1084.
- Hickinbottom, W. J.**, reactions of unsaturated compounds. Part II. Addition of arylamines to styrene. Part III. Addition of arylamines to butadiene, 319, 1981.
- rearrangement of the alkylanilines. Part VI. Mechanism, 1700.
- Hickling, A.**. See Glastone, S.
- Higgins, A. G.**. See Barnett, E. de B.
- Hill, D. W.**, reactions of *o*-hydroxybenzylidenediacetophenones. Part I. Reaction with acids, 1255.
- Himsworth, F. R., and Butler, J. A. V.**, adsorption at the surface of solutions. Part IV. Adsorption constants in solutions containing two solutes, 532.
- Hinkel, L. E., Ayling, E. E., and Walters, T. M.**, chlorination of the aceto-*o*-xylidides, 283.
- dichloro-*o*-xylenes. Part II., 1946.
- Hinshelwood, C. N.**. See Williams, E. G.
- Hirst, E. L.**. See Ault, R. G., Baird, D. K., Bodcote, E. W., Carrington, H. C., Challinor, S. W., Harris, T. L., Haworth, W. N., and Herbert, R. W.
- Hoblyn, J. B.**, obituary notice of, 560.
- Hodgson, H. H., and Batty, W. E.**, direct nitration of 5-chloro-3-hydroxy- and of 5-chloro-3-nitro-anisole, 1433.
- Hodgson, H. H., and Crook, J. H.**, dinitration of *p*-dimethylaminoacetanilide, 873.
- Hodgson, H. H., Dyson, R. J. H., and Clay, H.**, reactivity of resorcinol monoalkyl ethers towards diazonium compounds, 629.
- Hodgson, H. H., and Elliott, R. L.**, 3-halogeno-1-nitro-, -1-amino- and -1-hydroxy-naphthalenes, 1705.
- Hodgson, H. H., and France, H. V.**, thio-*o*-toluidine; its preparation by synthesis and by the action of sulphur on *o*-toluidine in the presence of litharge, 1140.
- Hodgson, H. H., and Holt, P. F.**, studies in the diphenyl series. Part III. Cain's supposed 4":4"-disubstituted tetranitrobenzerythrenes, 1431.
- Hodgson, H. H., and Nixon, J.**, action of bromine on 2- and 6-chloro- and 2- and 6-iodo-3-bromophenols, 137.
- Hodgson, H. H., and Walker, J.**, nitration of some *o*-naphthalides, 180.
- Holiday, E. R.**. See Gulland, J. M.
- Hollens, (Miss) W. R. A., and Spencer, J. F.**, the non-existence of cadmium compounds, 1062.
- Holmes, T.**. See Clemo, G. R.
- Holt, P. F.**. See Hodgson, H. H.
- Hooper, P. L., Macbeth, A. K., and Price, J. R.**, the "hydrosulphides" of carvone and *l*-4-isopropyl- Δ^2 -cyclohexen-1-one, 1147.
- Horton, A. T.**. See Bowen, E. J.
- Howard, G. F.**. See Heilbron, I. M.
- Huggett, W. E.**. See Blagden, J. W.
- Hughes, A. H., Yudkin, J., Kemp, I., and Rideal, E. K.**, some reactions with heavy water, 1105.
- Hughes, E. D., Ingold, C. K., and Wilson, Christopher L.**, separation of the isotopes of hydrogen by the chemical decomposition of water, and remarks on the mechanisms underlying the reducing action of dissolving metals, 493.
- Hughes, E. D.**. See also Day, J. N. E.
- Hughes, G. K., Macbeth, A. K., and Pennycuik, S. W.**, catalytic reduction of organic halogen compounds: 5-bromo-5-alkylbarbituric acids, 769.
- Hughes, L. A.**. See Farmer, E. H.
- Hughes, O. L.**. See Jones, G. E. M.
- Hunter, F.**. See Glass, H. M.

- Hunter, R. F.**, and **Parken, E. R.**, unsaturation and tautomeric mobility of heterocyclic compounds. Part IV. Methylation and bromination of a series of 2-p-substituted anilinothiazoles, 1175.
Hunter, R. F., and **Samuel, R.**, the problem of chemical linkage. Part I. Interpretation of valency on the basis of wave-mechanics and band spectra, 1180.
Hunter, R. F. See also **Aliazam, M.**, and **Desai, R. D.**

I.

- Ingold, C. K.**, **Pritchard, G. J.**, and **Smith, H. G.**, modes of addition to conjugated unsaturated systems. Part VI. Addition of halogens and hydrogen halides to conjugated unsaturated carboxylic acids and esters, 79.

- Ingold, C. K.**, and **Wilson, Christopher L.**, optical activity in relation to tautomeric change. Part II. Comparison between the rate of racemisation of a tautomeric substance and the rate of its tautomeric interconversion. Part IV. Comparison of the rates of racemisation and of bromination of a ketone, 93, 773.

- Ingold, C. K.** See also **Day, J. N. E.**, **Duff, (Miss) D. A.**, and **Hughes, E. D.**

- Inubuse, M.** See **Grove, (Miss) K. E.**

- Irving, H.** See **Chattaway, F. D.**

- Iyer, V. V. S.**, and **Robinson, R.**, *ind-N*-methyl-harmine, 1635.

J.

- Jackson, C. N.**, and **Philip, J. C.**, conditions for the production of fog in the neutralisation of a volatile acid or alkali, 341.

- Jackson, E. R. B.** See **Hey, D. H.**

- Jackson, N. S.**, **Smith, A. E. C.**, **Gatty, O.**, and **Wolfenden, J. H.**, thermochemistry of solutions. Part III. Heats of dilution of electrolytes in non-aqueous solvents, 1376.

- Jackson, N. S.** See also **Askew, F. A.**

- Jackson, (Miss) P.** See **Britton, H. T. S.**

- James, E. J. F.** See **Chattaway, F. D.**

- James, F. W.** See **Emeléus, H. J.**

- Jeffery, G. H.**, and **Vogel, A. I.**, dissociation constants of organic acids. Part VIII. Phenylacetic acid. Part IX. Some amic acids, 166, 1101.

- Jolley, E. E.**, preparation and constitution of the thio-stannates. Part II. Tetra- and octa-sodium di-oxypentathiostannates, 1076.

- Jenkins, H. O.**, molecular polarisations of nitrobenzene in various solvents at 25°, 480.

- Jenkins, H. O.** See also **Bury, C. R.**

- Jennings, W. P.**, and **McGookin, A.**, reactivity of unsymmetrical distyryl ketones, 1741.

- Johnson, C. H.**, and **Bryant, S. A.**, the so-called diaquobisethylenediamincupric ion; a re-investigation of its simple salts and alleged optical isomerism, 1783.

- Johnston, R. G.**, and **Read, J.**, researches in the carbone series. Part II. Some unsaturated alcohols, 233.

- Johnston, R. G.** See also **Read, J.**

- Jolley, L. J.**, thermal oxidation of methylamine, 1957.

- Jones, B.**, halogenation of phenolic ethers and anilides. Part IV. The chlorination of some *p*-substituted anilides, 210.

- Jones, D. C. R.**, and **Mason, F. A.**, some derivatives of 4:4'-tetramethylidiaminodiphenylmethane, 1190.

- synthesis and properties of 2:7-tetramethylidiamino-anthraquinone, 2:7-tetramethylidiamino-10-hydroxy-10-phenylanthrone, and related compounds, 1813.

- Jones, E. R.** See **Bradfield, A. E.**
Jones, G. E. M., and **Hughes, O. L.**, conductivity of methoxides and ethoxides, 1197.
Jones, I., and **Soper, F. G.**, ionisation constants of the tartaric acids and the nature of the borotartaric acids, 1836.
Jones, J. K. N. See **Haworth, W. N.**
Jones, W. E. See **Davies, W. H.**
Jones, W. J., and **Williams, H. G.**, action of chlorine on isoprene, 829.
Joshi, P. C., and **Venkataraman, K.**, synthetical experiments in the chromone group. Part XI. Synthesis of *isoflavone*, 513.
Jukes, E. H. T. See **Baker, W.**

K.

- Kanga, D. D.** See **Shah, M. S.**
Keller, E., and **Robinson, R.**, pyrlyium salts with two fused benzopyran nuclei, 1533.
Kelman, A. L. See **McKenzie, A.**
Kemp, I. See **Hughes, A. H.**
Kennedy, T. R. See **Russell, A. S.**
Kenner, J., and **Morton, F.**, an instance of the reversed field effect of the methyl group, 679.
Kenner, J. See also **Adamson, D. W.**, **Baddeley, G.**, and **Hannon, J.**
Kent, B. A., and **Smiles, S.**, rearrangement of hydroxy-sulphones. Part IV., 422.
Kermack, W. O. See **Backeberg, O. G.**, and **Barnett, (Miss) M. M.**
Khalidi, A. R. K. See **Desai, R. D.**
Khan, N. A. See **Aliazam, M.**
King, A., studies in chemisorption on charcoal. Part II. Experiments on the formation of the acid constituent of charcoal. Part V. Influence of ultraporosity on adsorption, 22, 1975.
King, A. See also **Emeléus, H. J.**
King, (Miss) A. M., and **Garner, W. E.**, heats of crystallisation of the ethyl esters of the monobasic aliphatic acids, 1449.
King, F. E., synthesis of coeroxonones, 1064.
King, F. E., and **L'Ecuyer, P.**, synthesis of indole-acetic acids, 1901.
King, F. E., **Liguori, M.**, and **Robinson, R.**, experiments on the synthesis of physostigmine (eserine). Part X. *dl*-Noresermetheole and crystalline *dl*-eserethole, 1416.
King, F. E., and **Robertson, A.**, hydroxy-carbony compounds. Part IX. Benzopyrones related to phloretin, 403.
King, H. See **Dyke, W. J. C.**
Kipping, F. S. See **Abrams, J. T.**
Kon, G. A. R., and **Ling, Z. T.**, ethyl Δ^1 -cyclopentenyl-malonate, 596.
Kon, G. A. R., **Linstead, R. P.**, and **Wright, J. M.**, investigations of the olefinic acids. Part XII. β -Methylpentenoic acids, 599.
Kon, G. A. R., and **Nargund, K. S.**, catalytic influences in three-carbon tautomerism. Part V. Acid catalysis in ketones and esters, 623.
Kon, G. A. R. See also **Fraser, H. B.**, and **Harper, S. H.**

L.

- Lahiri, J. K.** See **Brady, O. L.**
Lamb, R. A. See **Robertson, G. J.**
Laurence, V. D., and **Wolfenden, J. H.**, viscosity of solutions of strong electrolytes, 1144.
Lavington, (Miss) E. M. W. See **Taylor, T. W. J.**
Lawrence, C. A. See **Barnett, E. de B.**

- Lawrence, R. P.** See **Russell, A. S.**
- Laybourn, K.**, and **Madgin, W. M.**, densities of molten inorganic nitrate mixtures, 1.
- Laybourn, K.**, **Madgin, W. M.**, and **Freeman, (Miss) D.**, liquidus and solidus studies. Part IV., 139.
- L'Ecuyer, P.** See **King, F. E.**
- Le Févre, (Mrs.) C. G.**, **Le Févre, R. J. W.**, and **Pearson, J.**, comparison of the directive powers of elements having consecutive atomic numbers. Part VI. Examination of further possible comparative cases, and conclusions, 37.
- Le Févre, R. J. W.**, the acid condensation of salicyl-aldehyde with acetylacetone, ethyl acetoacetate, and pyruvic acid, 450.
- volume effects of alkyl groups in aromatic compounds. Part V. The monosulphonation of *p*-cymene, 1501.
- Le Févre, R. J. W.**, and **Markham, P. J.**, further instances of the formation of chlorobenzene from phenylmagnesium bromide and chlorinated substances, 703.
- Le Févre, R. J. W.** See also **Ganguly, S. N.**, and **Le Févre, (Mrs.) C. G.**
- Lempert, H.**, and **Robinson, R.**, an example of anhydronium base formation in the quinoline series, 1419.
- Lesslie, (Miss) M. S.**, and **Turner, E. E.**, stereochemistry of 2:2'-disubstituted diphenyls. Part IV. Diphenates of the cinchona alkaloids, 347.
- configuration of heterocyclic compounds. Part I. Optical resolution of 10-methylphenoxyarsine-2-carboxylic acid, 1170.
- Letch, R. A.**, and **Linstead, R. P.**, investigations of the olefinic acids. Part XIII. $\Delta^{\alpha\beta}$ -*n*-Hexenoic acid and "hydrosorbic" acid, 1994.
- Levy, L. F.** See **Grove, (Miss) K. E.**
- Lewis, E. W.**, obituary notice of, 561.
- Lewis, H. J.**, and **Robinson, R.**, formation of an intermediate product in the nitration and simultaneous demethylation of 6:7-dimethoxy-1:2:3:4-tetrahydro-naphthalene, 1253.
- Lewis, W. P. G.** See **Davies, W. C.**
- Liguori, M.** See **King, F. E.**
- Ling, Z. T.** See **Kon, G. A. R.**
- Linstead, R. P.**, phthalocyanines. Part I. New type of synthetic colouring matters, 1016.
- Linstead, R. P.**, and **Lowe, A. R.**, phthalocyanines. Part III. Preparation of phthalocyanines from phthalonitrile. Part V. Molecular weight of magnesium phthalocyanine, 1022, 1031.
- Linstead, R. P.**, and **Meade, E. M.**, fused carbon rings; introduction and Part I. Fusion of five-membered rings in the *cis*- and *trans*-positions; synthesis of β -O:3:3-bicyclooctanones and related compounds, 935.
- Linstead, R. P.**, and **Noble, E. G.**, catalytic influences in three-carbon tautomerism. Part III. Review of possible mechanisms, and further examination of catalysis by alkoxides. Part IV. Tautomeric changes of unsaturated acids at high temperatures, 610, 614.
- Linstead, R. P.**, and **Rydon, H. N.**, investigations of the olefinic acids. Part XIV. Preparation and additive reactions of $\Delta^{\delta\beta}$ -*n*-hexenoic acid; a unusual isomeric change in the three-carbon system. Part XV. Effect of peroxides on the orientation of addition of hydrogen bromide to vinyl- and allyl-acetic acids, 1995, 2001.
- Linstead, R. P.** See also **Byrne, G. T.**, **Cook, A. H.**, **Dent, C. E.**, **Kon, G. A. R.**, and **Letch, R. A.**
- Love, T.**, the anil of 2-hydroxy-6-methylbenzaldehyde, 244.
- Lowe, A.** See **Heilbron, I. M.**
- Lowe, A. R.** See **Briscoe, H. V. A.**, **Byrne, G. T.**, **Dent, C. E.**, and **Linstead, R. P.**
- Luis, (Miss) E. M.** See **McKenzie, A.**
- Lythgoe, B.** See **Heilbron, I. M.**
- M.**
- Macbeth, A. K.**, and **Price, J. R.**, action of bases on nitrophenylhydrazines: 2:4-dinitrophenylhydrazine, 1637.
- Macbeth, A. K.** See also **Hooper, P. L.**, and **Hughes, G. K.**
- McCleland, N. P. K. J. O'N.**, obituary notice of, 561.
- McClelland, E. W.** See **Bartlett, R. G.**
- McCreath, D.** See **Patterson, T. S.**
- MacDowell, R. H.**, **Robinson, R.**, and **Todd, A. R.**, experiments on the synthesis of anthocyanins. Part XVIII. Cyanidin 3-xyloside and 3:7- and 5:7-diglucosides, 806.
- MacFarlane, W.**, and **Wright, R.**, solubility of vapours in gases, 207.
- McGeoch, (Miss) S. N.**, and **Stevens, T. S.**, the "Cannizzaro reaction" of hydrastinine, 1465.
- McGookin, A.**, orientation problems. Part I. The effect of nitro-groups in Schiff's bases, 1743.
- McGookin, A.** See also **Jennings, W. P.**, and **Morton, R. A.**
- McGregor, A.** See **Roger, R.**
- McIlwain, H.** See **Clemo, G. R.**
- McKenzie, A.**, and **Abbott, E. B.**, optically inactive bornyl fumarates, 711.
- McKenzie, A.**, and **Christie, E. W.**, action of optically active alcohols on ketens, 1070.
- McKenzie, A.**, and **Kelman, A. L.**, optically active mixed benzoins derived from (+)mandelonitrile, 412.
- McKenzie, A.**, and **Luis, (Miss) E. M.**, resolution of *dl*-menthyl (-)mandelate, 715.
- McLean, A.**, studies in solvent action. Part VIII. Rotatory powers of the *l*-menthyl esters of *o*-nitro-, 2:4-dinitro-, and *p*-nitro-benzoic acids in relation to the solvent, concentration, temperature, and wave-length of light, 351.
- MacLennan, W. H.** See **Butler, J. A. V.**
- McMahon, F. A.**, and **Robinson, P. L.**, reaction of atomic hydrogen with metallic copper, 854.
- Macrae, T. F.** See **Dunlop, (Miss) H. G.**, and **Gulland, J. M.**
- MacWalter, R. J.**, and **Barratt, S.**, absorption spectra of cobalt halide solutions, 517.
- Madgin, W. M.** See **Glass, H. M.**, and **Laybourn, K.**
- Mahal, H. S.**, **Rai, H. S.**, and **Venkataraman, K.**, synthetical experiments in the chromone group. Part XII. Synthesis of 7-hydroxyisoflavone and of α - and β -naphthoisoflavone. Part XV. Synthesis of formononetin, daidzein and ψ -baptigenin, 1120, 1769.
- Mahal, H. S.**, and **Venkataraman, K.**, synthetical experiments in the chromone group. Part XIV. The action of sodamide on 1-acyloxy-2-aceto-naphthones, 1767.
- Malkin, T.** See **Clarkson, C. E.**
- Mann, F. G.**, Hofmann's ethylene bases; synthesis of $\beta\beta'$ -diaminodiethylamine and of $\beta\beta'$ -diamino-diethylmethylamine, 461.
- constitution of complex metallic salts. Part II. The platinum derivatives of $\beta\beta'$ -diaminodiethylamine, 466.
- Markham, P. J.** See **Le Févre, R. J. W.**
- Marriott, G. J.**, and **Robinson, R.**, hydroxy- and chloro-derivatives of 2-methylanthraquinone, 1631.
- Marsh, J. K.**, notes on the preparation of pure europium, gadolinium and terbium compounds, 1972.

- M**arshall, (*Miss*) *M. A.*, **Pyman, F. L.**, and **Robinson, R.**, stereoisomerides of narcotine and hydrastine, 1315.
- Mason, F. A.** See **Brown, W. R.**, and **Jones, D. C. R.**
- Masson, I.** See **Pounder, F. E.**
- Matejka, K.**, and **Robinson, R.**, attempts to find new antimalarial. Part X. 8-Amino-6- γ -aminopropoxyquinoline and some related substances, 1322.
- Mathur, F. C.**, and **Robinson, R.**, nitration of 2-methylindole, 1415. attempts to find new antimalarial. Part XI. Some aminoalkylarylquinoline derivatives, 1520.
- Mavin, C. R.** See **Haworth, R. D.**
- Maxted, E. B.**, and **Stone, V.**, the energetics of catalysis. Part II. Poisoning coefficients and energies of activation of hydrogenation processes. Part III. Further studies of the poisoning coefficients of hydrogenation processes, 26, 672.
- Mayneord, W. V.** See **Cook, J. W.**
- Mays, E. L.**, and **Warren, F. L.**, an extraction apparatus for solids and liquids, 1652.
- Meade, E. M.** See **Linstead, R. P.**
- Mears, A. J.**, **Oakeshott, S. H.**, and **Plant, S. G. P.**, action of halogens on polycyclic indole derivatives. Part IV. Some reactions of 1-keto-1:2:3:4-tetrahydrocarbazole, 272.
- Meisel, W.**, and **Robinson, R.**, attempts to find new antimalarial. Part IX. 8- δ -Aminobutylamino-6-ethoxyquinoline, 1267.
- Meldrum, A. N.**, obituary notice of, 1476.
- Melmore, P. B.**, obituary notice of, 563.
- Melville, H. W.**, catalytic hydrogenation of simple molecules by light and by heavy hydrogen, 797. kinetics of some reactions of heavy hydrogen. Part I., 1243.
- Melville, H. W.**, and **Roxburgh, H. L.**, oxidation of phosphine in presence of tungsten and molybdenum, 264.
- Mendivelza, G.** See **Deulofeu, V.**
- Menon, B. K.** See **Peacock, D. H.**
- Menzies, R. C.**, even and odd co-ordination numbers, 1755.
- Menzies, R. C.**, and **Walker, A. R. P.**, dimethyl-thallium methoxide, 1131.
- Miller, S. A.**, and **Robinson, R.**, condensation of phenols with unsaturated ketones or aldehydes. Part I. β -Naphthol and vinyl methyl ketone, 1535.
- Mills, A. K.**, mechanism of the deamination of amino-alcohols. Part I. Amino-alcohols derived from phenyl α -amino- β -phenylethyl ketone, 1565.
- Mills, A. K.**, and **Grigor, J.**, mechanism of the deamination of amino-alcohols. Part II. Amino-alcohols derived from α -aminopropiophenone hydrochloride, 1568.
- Mitchell, J. G.** See **Morgan, G. T.**
- Moffet, G. L.** See **Heilbron, I. M.**
- Mohunta, L. M.**, and **Rây, J. N.**, experiments on the synthesis of isoquinoline derivatives. Part III. Synthesis of corydaldine, 1263. experiments on the synthesis of santene and its derivatives. Part I., 1328.
- Money, R. W.**, and **Davies, C. W.**, complex formation in salt solutions. Part I., 400.
- Morgan, G. T.**, and **Burstall, F. H.**, researches on residual affinity and co-ordination. Part XXXIV. 2:2'-Dipyridyl platinum salts. Part XXXV. 2:2':2"-Tripyridylplatinum salts, 965, 1498.
- Morgan, G. T.**, and **Mitchell, J. G.**, perylene and derivatives, 536.
- Morgan, G. T.**, and **Pettet, A. E. J.**, homologues of phenol, 418.
- Morris, C. J. O. R.** See **Gulland, J. M.**
- Morton, C.**, effect of electrical leakage on the electro-motive behaviour of the glass electrode, 256.
- Morton, F.** See **Kenner, J.**
- Morton, R. A.**, and **De Gouveia, A. J. A.**, chromophoric groups. Part I. Ultra-violet absorption spectra of indene and certain of its derivatives. Part II. Absorption spectra of naphthalene, hydronaphthalenes, and related compounds, 911, 916.
- Morton, R. A.**, **Hassan, A.**, and **Calloway, T. C.**, absorption spectra in relation to the constitution of keto-cnols, 883.
- Morton, R. A.**, and **McGookin, A.**, the absorption spectra of the nitrotoluidines and related substances, 901.
- Moss, R. J.**, obituary notice of, 563.
- Muir, J. J.** See **Bolam, T. R.**
- Muir, R. J. K.** See **Chattaway, F. D.**
- Mukherjee, S.** See **Neogi, P.**
- Mumford, S. A.** See **Phillips, J. W. C.**
- Murray, (*Miss*) R. M.**, and **Turner, E. E.**, nitration of some aryloxy-2- and -4-methylquinolines; syntheses of substances having possible antimalarial action, 856.

N.

- Naik, K. G.**, and **Patel, A. D.**, influence of substituents on the mercuration of coumarins, 1043.
- Nair, P. V.**, and **Robinson, R.**, experiments on the synthesis of anthocyanins. Part XXV. Pelargonidin 3-galactoside, 1611.
- Nair, P. V.** See also **Grove, (*Miss*) K. E.**
- Nargund, K. S.** See **Kon, G. A. R.**
- Nathan, (*Sir*) F. L.**, obituary notice of, 565.
- Neogi, P.**, **Sen, B. N.**, and **Mukherjee, S.**, induction periods in chemical reactions; the action of phosphorous acid on alkali bromate and iodate, 767.
- Neville, G. H. J.** See **Norrish, R. G. W.**
- New, R. G. A.** See **Hammick, D. L.**
- Nixon, J.** See **Hodgson, H. H.**
- Noble, E. C.** See **Linstead, R. P.**
- Norrish, R. G. W.**, and **Appleyard, (*Miss*) M. E. S.**, primary photochemical reactions. Part IV. Decomposition of methyl ethyl ketone and methyl butyl ketone, 874.
- Norrish, R. G. W.**, **Crone, H. G.**, and **Saltmarsh, (*Miss*) O. D.**, primary photochemical reactions. Part V. Spectroscopy and photochemical decomposition of acetone, 1456.
- Norrish, R. G. W.**, and **Neville, G. H. J.**, decomposition of ozone photosensitised by chlorine, 1864.
- North, H. E.** See **Challenger, F.**

O.

- Oakeshott, S. H.** See **Mears, A. J.**
- Ocleshaw, V. J.**, phase-rule studies on metallic thiocyanates. Part III. The systems $\text{Ba}(\text{NCS})_2$ – NH_4NCS – H_2O and $\text{Ba}(\text{NCS})_2$ – AgNCS – H_2O at 25° , 1892.
- Ockrent, C.**, active charcoal. Part II. Constitution of the surface and the activated adsorption of water, 291.
- Oliver, (*Miss*) E.** See **Haworth, W. N.**
- Orr, W. B.** See **Downing, E.**

P.

- Packer, J.** See **Bull, (*Miss*) J. E.**
- Padfield, H. J. H.** See **Cullinane, N. M.**
- Panizzon, L.** See **Haworth, W. N.**

- Parke, J. B.**, the phase volume theory and the homogenisation of concentrated emulsions. Part II., 1112.
- Parken, E. R.** See **Hunter, R. F.**
- Parkes, G. D.**, and **Tinsley, S. G.**, acetophenone- ω -sulphonic acid, and the phenylglyoxalarylhydrazone- ω -sulphonic acids, 1861.
- Parkes, G. D.**, and **Williams, E. H.**, ω -nitrophenylglyoxalarylhydrazones, 67.
- Partington, J. R.**, and **Bahl, R. K.**, periodic acid and periodates. Part I. Analytical determination of periodic acid. Part II. Dehydration of paraperiodic acid. Part III. Sodium and silver periodates. Part IV. The reactions of disodium paraperiodate with soluble salts of zinc and metals of the alkaline earths, 1086, 1088, 1091, 1771.
- Patel, A. D.** See **Nail, K. G.**
- Patterson, T. S.**, and **McCreath, D.**, influence of solvents and of other factors on the rotation of optically active compounds. Part XXXII. The rotation dispersion of esters of dibenzoyl-d-tartaric acid in various solvents, 100.
- Peacock, D. H.**, and **Dutta, V. C.**, $\beta\beta'$ -diaminodiethylamine, 1303.
- Peacock, D. H.**, and **Menon, B. K.**, *cis-trans*-isomerism in hydrindene derivatives, and its relation to the Walden inversion. Part I., 1296.
- Pearson, J.** See **Le Févre, (Mrs.) C. G.**
- Pearson, T. G.**, free radicals and atoms in primary photochemical processes; the photo-dissociation of aliphatic ketones and aldehydes, 1718.
- Pearson, T. G.**, and **Robinson, P. L.**, the volatile hydrides. Part I. Periodicity as a means of correcting and supplementing determined physical properties. Part II. The parachor, the molar volume at absolute zero, and the electronic structure and properties of compounds, 736. the parachor of hydrogen bromide, 880.
- Pearson, T. G.** See also **Durrant, (Miss) A. A.**, **Emeléus, H. J.**, and **Ferrell, (Miss) E.**
- Pennycuik, S. W.** See **Hughes, G. K.**
- Percival, E. G. V.**, addition compounds of the carbohydrates. Part I. Potassium hydroxide-glucose and related compounds, 1160.
- Perkin, W. H., jun.**, **Robinson, R.**, and **Smith, J. C.**, strychnine and brucine. Part XXV. Reduction of methylstrychnidinium salts by means of sodium amalgam in the presence of carbon dioxide, 574.
- Petrow, V. A.** See **Dorée, C.**
- Pettet, A. E. J.** See **Morgan, G. T.**
- Philip, J. C.** See **Bell, S. H.**, **Dunn, L. J.**, and **Jackson, C. N.**
- Phillips, J. W. C.**, and **Mumford, S. A.**, the dimorphism of certain aliphatic compounds. Part V. The *n*-primary alcohols and their acetates, 1657.
- Phipers, R. F.** See **Dunn, J. L.**, and **Heilbron, I. M.**
- Pinkard, F. W.**, **Sharratt, E.**, **Wardlaw, W.**, and **Cox, E. G.**, isomerides of quadricovalent palladium and platinum, 1012.
- Plant, S. G. P.**, and **Williams, S. B. C.**, 3-acetylcarbazole and carbazole-3-carboxylic acid, 1142.
- Plant, S. G. P.** See also **Mears, A. J.**
- Pounder, F. E.**, and **Masson, I.**, a mode of studying nitration. Part II. Isomeric ratios in di-nitrobenzene, 1352. thermal analysis, and its application to the di-nitrobenzenes, 1357.
- Price, J. R.** See **Hooper, P. L.**, and **Macbeth, A. K.**
- Prior, (Miss) A. M.** See **Bradford, B. W.**
- Pritchard, G. J.** See **Ingold, C. K.**
- Pritchett, E. G. K.** See **Vallance, R. H.**
- Pugh, W.**, the reduction of permanganate in buffered solution: potentiometric titration with hydrogen peroxide, 1150.
- Purcell, R. H.** See **Emeléus, H. J.**
- Pursell, W.** See **Rule, H. G.**
- Pycock, E. R.** See **Dawson, H. M.**
- Pyman, F. L.**, and **Stevenson, H. A.**, constitution of glycerophosphates. Part III., 448.
- Pyman, F. L.** See also **Marshall, (Miss) M. A.**

R.

- Rai, H. S.** See **Mahal, H. S.**
- Ramage, C. R.** See **Evans, W. C.**
- Rao, B. S. V. R.**, colour changes in light and darkness of ammonium thiocyanate solutions, 880.
- Ray, J. N.** See **Had, M. A.**, and **Mohunta, L. M.**
- Read, J.**, and **Grubb, W. J.**, researches in the menthone series. Part XII. Isolation and characterisation of the *neoisomenthols*, Part XIII. The relative molecular configurations of the menthols and menthylamines, 313, 1779.
- Read, J.**, and **Johnston, R. G.**, researches in the carvone series. Part I. Some ketones and amines, 226.
- Read, J.**, and **Walker, J.**, piperitone. Part XII. The two varieties of piperitol, 308.
- Read, J.** See also **Clark, J.**, **Grubb, W. J.**, **Johnston, R. G.**, and **Walker, J.**
- Reynolds, R. J. W.** See **Haworth, W. N.**
- Reynolds, (Miss) T. M.**, and **Robinson, R.**, strychnine and brucine. Part XXVIII. (A) Methoxy-methylchanodihydrostrychnane. (B) Constitution of anhydrotetrahydromethylstrychnine-K⁵, 592. experiments on the synthesis of anthocyanins. Part XXI. 3- β -Glucosidyldelphinidin chloride, 1039.
- Reynolds, (Miss) T. M.**, **Robinson, R.**, and **Scott-Moncrieff, (Miss) R.**, experiments on the synthesis of anthocyanins. Part XXII. Isolation of an anthocyanin of *Salvia patens* termed delphin, and its synthesis, 1235.
- Rhodes, J. E. W.**, hydrolysis of acetoxime, 323.
- Richards, O. V.** See **Challenger, F.**
- Richter, D.**, action of inhibitors on the decomposition of hydrogen peroxide, 1219.
- Rideal, E. K.** See **Hughes, A. H.**
- Ridgion, J. M.**, and **Riley, H. L.**, solubility of cupric oxide in salt solutions, 186.
- Ridgion, J. M.** See also **Evans, W. C.**, and **Ferrell, (Miss) E.**
- Riley, H. L.**, and **Smith, H. C.**, potentiometric investigation of electrolytic dissociation. Part III. Copper halides, 1448.
- Riley, H. L.** See also **Astin, S.**, **Ferrell, (Miss) E.**, and **Ridgion, J. M.**
- Roberts, E. A. H.**, and **Robinson, R.**, observations in the xanthene group, 1650.
- Roberts, K. C.**, and **De Worms, C. G. M.**, a rearrangement of *o*-aminodiphenyl ethers. Part I., 727.
- Robertson, A.** See **King, F. E.**
- Robertson, G. J.**, condensation of α -methylmannoside with benzaldehyde, 330.
- Robertson, G. J.**, and **Lamb, R. A.**, condensation of α -methylgalactoside with benzaldehyde, 1321.
- Robertson, G. J.**, and **Speedie, T. H.**, new derivatives of xylose, 824.
- Robinson, (Mrs.) G. M.**, a synthesis of certain higher aliphatic compounds. Part IV. Synthesis of *n*-triacontanoic acid from stearic acid, 1543.
- Robinson, (Mrs.) G. M.**, **Robinson, R.**, and **Todd, A. R.**, experiments on the synthesis of anthocyanins. Part XIX. 5-Glucosidylapigeninidin, believed to be identical with gesnerin, an anthocyanin of *Gesnera fulgens*, 809.

- Robinson, P. L.** See Durrant, (Miss) A. A., Ferrell, (Miss) E., McMahon, F. A., and Pearson, T. G.
- Robinson, R.**, strychnine and brucine. Part XXX. Comments on a memoir of M. Kotake and T. Mitsuwa, 1490.
- Robinson, R.**, and Shah, R. C., some homologues of resorcinol, 1491.
- Robinson, R.**, and Streight, H. R. L., derivatives of normecconin, 1130.
- Robinson, R.**, and Tomlinson, (Miss) M. L., attempts to find new antimalarials. Part XII. Further variations in the group of the quinolines with basic side chains, 1524.
- Robinson, R.**, and Walker, J., a new synthesis of benzopyrylium salts by condensation of reactive phenols with unsaturated aldehydes or ketones in the presence of a strong acid and an oxidising agent. Part I. Typical cases with resorcinol as phenolic component, 1435.
- Robinson, R.**, and Watt, J. S., some derivatives of 3-ethylpyridine and 2:3-furano(2':3')pyridine, 1536.
- Robinson, R.** See also Achmatowicz, O., Ainley, A. D., Armstrong, K. F., Baldwin, A. W., Bell, (Miss) J. C., Blount, B. K., Bradley, W., Briggs, L. H., Charlesworth, E. H., Groenewoud, P., Grove, (Miss) K. E., Healey, (Miss) M., Iyer, V. V. S., Keller, E., King, F. E., Lempert, H., Lewis, H. J., MacDowell, R. H., Marriott, G. J., Marshall, (Miss) M. A., Matejka, K., Mathur, F. C., Meisel, W., Miller, S. A., Nair, P. V., Perkin, W. H., jun., Reynolds, (Miss) T. M., Roberts, E. A. H., and Robinson, (Mrs.) G. M.
- Robinson, R. A.**, and Sinclair, D. A., physicochemical studies of complex acids. Part XI. Vapour-pressure measurements, 642.
- Roe, (Miss) E.** See Cook, J. W.
- Roger, R.**, and Gow, (Miss) E. R. L., studies in stereochemical structure. Part VI. The isomeric (—)methyl α -naphthylglycolates, 130.
- Roger, R.**, and McGregor, A., synthesis of substituted benzoins and of deoxybenzoins, 442. studies in stereochemical structure. Part VII. Rotatory powers and racemisations of the optically active benzoins, 1545.
- action of Grignard reagents on desyl chloride. Part I. Aryl Grignard reagents, 1850.
- Rogers, (Miss) I. W. E.**, obituary notice of, 2016.
- Rothstein, E.**, influence of poles and polar linkings on tautomerism in the simple three-carbon system. Part III. Experiments with benzyl- Δ^{α} - and - Δ^{β} -propenylsulphones, 684.
- Rothstein, E.** See also Challenger, F.
- Roxburgh, H. L.** See Melville, H. W.
- Rule, H. G.**, and Brown, R. R. H., preparation of naphthastyryl from 8-bromo-1-naphthoic acid, 137. constitution of dinitroacenaphthenequinone and of dinitronaphthalic acid; preparation of a new dinitronaphthalene, 171.
- Rule, H. G.**, Pursell, W., and Brown, R. R. H., derivatives of 8-bromo- and 8-chloro-1-naphthoic acids and their orientation by dehalogenation and decarboxylation, 168.
- Russell, A.**, the constitution of tannins. Part I. Reduction products of chalcones and the synthesis of a typical phlobatannin, 218.
- Russell, A.**, and Todd, J., the constitution of tannins. Part II. Structure and the synthesis of bis-(5:7:3':4'-tetrahydroxy)flavpinacol. Part III. Hemlock tannin; synthesis of bis-(7:8:3':4'-tetrahydroxy)flavpinacol, 1066, 1506.
- Russell, A.**, Todd, J., and Wilson, Cecil L., the constitution of tannins. Part IV. Absorption spectra of natural phlobatannins and synthetic flavpinacols, 1940.
- Russell, A. S.**, Kennedy, T. R., and Lawrence, R. P., intermetallic compounds formed in mercury. Part V. Compounds in the Zn-Mn, Zn-Co, Zn-Ni, Al-Fe, Sn-Mn, and Sn-Co systems, 1750.
- Rutherford, (Lord)**, the periodic law and its interpretation, 635.
- Ruzicka, F. C. J.** See Harper, S. H.
- Rydon, H. N.** See Linstead, R. P.

S.

- Saenger, H.** See Cox, E. G.
- Saltmarsh, (Miss) O. D.** See Norrish, R. G. W.
- Samant, K. M.** See Dunn, J. L.
- Samuel, R.** See Hunter, R. F.
- Sanderson, (Miss) I.** See Bassett, H.
- Sandrock, W. F.**, obituary notice of, 1478.
- Scarborough, H. A.**, and Sweeten, J. L., substitution in the methyl-4'-nitro- and -4'-acetamido-diphenyl ethers, 52. substitution products of 2'-nitro- and 2':4'-dinitro-2-methoxydiphenyl ethers, 867.
- Scarborough, H. A.** See also Buchan, S.
- Schofield, J. A.**, obituary notice of, 2016.
- Scott-Moncrieff, (Miss) R.** See Reynolds, (Miss) T. M.
- Sen, B. N.** See Neogi, P.
- Seth, S. R.** See Gulati, K. C.
- Shah, M. S.**, Bhatt, C. T., and Kanga, D. D., *m*-toluidine-6-sulphonic acid, 2010.
- Shah, R.** See Robinson, R.
- Sharp, T. M.**, the alkaloids of *Alstonia* barks. Part I. *A. constricta*, F. Muell. Part II. *A. macrophylla*, Wall, *A. somersetensis*, F. M. Bailey, *A. verticillosa*, F. Muell, *A. villosa*, Blum, 287, 1227.
- Sharratt, E.** See Pinkard, F. W.
- Sheldrick, G.** See Haworth, R. D.
- Shoppee, C. W.** See Burton, H.
- Simonsen, J. L.** See Bradfield, A. E., and Evans, W. C.
- Sinclair, D. A.** See Robinson, R. A.
- Smiles, S.** See Kent, B. A.
- Smith, A. E. C.** See Jackson, N. S.
- Smith, F.** See Baird, D. K., and Haworth, W. N.
- Smith, G. F.**, heats of activation of the acetone-iodine reaction, 1744.
- Smith, H. C.** See Riley, H. L.
- Smith, H. G.** See Ingold, C. K.
- Smith, H. T.** See Askew, F. A.
- Smith, J. C.**, alkaline halogenation. Part I. The chlorination of sodium benzoate, 213.
- Smith, J. C.** See also Ashton, R., and Perkin, W. H., jun.
- Smith, L. H.**, and Welch, K. N., a new addition compound of phenol and hexamethylenetetramine, 729. preparation of *p*-dimethylaminobenzyl alcohol, 730. a contribution to the chemistry of the Knoevenagel and similar reactions, 1136.
- Smith, M. L.** See Topley, B.
- Smith, S.**, and Timmis, G. M., the alkaloids of ergot. Part V. The nature of ergine, 674.
- Smith, T. B.**, improved methods for the separation of chloride from bromide by means of ammonia, 783.
- Solomon, W.** See Henry, T. A.
- Soper, F. G.** See Jones, I.
- Speedie, T. H.** See Robertson, G. J.
- Spence, R.**, and Wild, W., the thermal reaction between chlorine and gaseous formaldehyde. Part I., 1588.
- Spencer, J. F.** See Hollens, (Miss) W. R. A.

Spong, A. H., properties of the chlorides of sulphur. Part VII. Changes of density on heating or irradiation. Part VIII. The reaction of sulphur monochloride with chlorine, 485, 1283.

Spring, F. S., syntheses of 2-phenylnaphthalenes, 1332.

Spring, F. S., and **Vickerstaff, T.**, the resinsols. Part II. The oxidation of α - and β -amyrins with chromic anhydride. Part III. α - and β -Amyrone oxides and their derivatives, 650, 1859.

Spring, F. S. See also **Dunn, J. L.**, and **Heilbron, I. M.**

Stacey, M. See **Baird, D. K.**

Steadman, F. See **Bowen, E. J.**

Steel, R. E., obituary notice of, 565.

Steele, B. D., obituary notice of, 1479.

Stevens, T. S. See **Dunn, J. L.**, and **McGeoch, (Miss) S. N.**

Stevenson, H. A. See **Pyman, F. L.**

Stokes, A. W., obituary notice of, 2017.

Stone, V. See **Maxted, E. B.**

Storr, B. V., obituary notice of, 1479.

Storrie, F. R. See **Cameron, J. M. L.**

Streight, H. R. L. See **Robinson, R.**

Subrahmanyam, C. A. See **Baker, W.**

Sugasawa, S., synthesis of 5-hydroxyflavone, 1483.

Sugden, S. See **Groves, L. G.**

Summerbell, L. J., the reaction between potassium o-tolyloxide and aliphatic esters in aqueous-alcoholic solutions, 992. the relative strengths of certain monohydric phenols in aqueous-alcoholic solution, 996.

Swallow, J. C., and **Gibson, R. O.**, effect of pressure on the binary system monomethylaniline-dimethyl-aniline, 18.

effect of pressure on the melting points of *o*-, *m*-, and *p*-xylene, 440.

Sweeten, J. L. See **Scarborough, H. A.**

T.

Tagg, M., obituary notice of, 2018.

Tate, G., obituary notice of, 1480.

Taylor, F. S., the manganohalides of pyridine and quinoline, 699.

Taylor, R., catalytic syntheses with carbon monoxide and hydrogen under pressure, 1429.

Taylor, T. W. J., and **Crawford, C. E. J.**, preparation of *isostilbene*, 1130.

Taylor, T. W. J., and **Lavington, (Miss) E. M. W.**, heterogeneous catalysis of stereoisomeric change in oximes, 980.

Taylor, W., and **Ward, A. M.**, kinetics of the interactions of sodium hydroxide with penta- and hexachloro- and -bromo-ethanes in aqueous ethyl-alcoholic solution, 2003.

Thiele, J. See **Weissberger, A.**

Thomas, J., obituary notice of, 565.

Thompson, H. W., the absorption spectra of some polyatomic molecules containing methyl and ethyl radicals, 790.

Thompson, H. W., and **Garratt, A. P.**, the spectra and photochemical decomposition of metallic carbonyls. Part I. Spectral data, 524.

Thompson, H. W. See also **Garratt, A. P.**

Thomson, J. M., obituary notice of, 567.

Thorncroft, F. J. See **Barrow, F.**

Thorpe, J. F. See **Bull, (Miss) J. E.**

Timmis, G. M. See **Smith, S.**

Tinkler, R. K. See **Askew, F. A.**

Tinsley, S. G. See **Parkes, G. D.**

Todd, A. R. See **MacDowell, R. H.**, and **Robinson, (Mrs.) G. M.**

Todd, J. See **Russell, A.**

Tomlinson, (Miss) M. L. See **Robinson, R.**

Topley, B., and **Smith, M. L.**, catalysis of an interface reaction by adsorbed molecules, 1754.

Tress, H. J. See **Drew, H. D. K.**

Tucker, S. H. See **Dunlop, (Miss) H. G.**

Tudor, R. J., and **Vogel, A. I.**, syntheses of cyclic compounds. Part XI. The thermal decomposition of *trans*-hexahydrophindene- and of *trans*-decahydrophthalene-2*d*-diacetic acids, 1250.

Tuffail-Malkana, M. See **Hag, M. A.**

Turner, E. E. See **Carpenter, (Miss) B. R.**, **Lesslie, (Miss) M. S.**, and **Murray, (Miss) R. M.**

V.

Vallance, R. H., and **Pritchett, E. G. K.**, sodium paramungstate, 1586.

Vaughan-Jackson, M. W. See **Bell, R. P.**

Veley, V. H., obituary notice of, 570.

Venkataraman, K. See **Gulati, K. C.**, **Joshi, P. C.**, and **Mahal, H. S.**

Vergara, V. J. M., obituary notice of, 574.

Vernon, W. H. J., basic copper carbonate and green patina, 1853.

Vickerstaff, T. See **Spring, F. S.**

Vogel, A. I., physical properties and chemical constitution. Part I. Esters of normal dibasic acids and of substituted malonic acids. Part II. Esters of $\beta\beta$ -substituted glutaric acids, 333, 1758.

Vogel, A. I. See also **Jeffery, G. H.**, and **Tudor, R. J.**

W.

Wagstaff, E. A., nitration of β -phenylethylpyridines and related compounds. Part II, 276.

Walker, A. R. P. See **Menzies, R. C.**

Walker, J., and **Read, J.**, catalytic hydrogenation of diosphenol, 238.

Walker, J. See also **Hodgson, H. H.**, **Read, J.**, and **Robinson, R.**

Walkey, W. A. See **Griffiths, P. H.**

Walls, L. P., researches in the phenanthridine series. Part III. Meso-substituted derivatives, 104.

Walters, T. M. See **Hinkel, L. E.**

Ward, A. M. See **Taylor, W.**

Wardlaw, W. See **Cox, E. G.**, and **Pinkard, F. W.**

Warren, F. L. See **Mays, E. L.**

Watson, H. B. See **Griffiths, P. H.**

Watson, W. H., obituary notice of, 2018.

Watt, J. S. See **Robinson, R.**

Weissberger, A., and **Haase, R.**, the Cannizzaro reaction, 535.

Weissberger, A., and **Thiele, J.**, the alleged colour and dyeing properties of some derivatives of tetraarylmethanes, 148.

Welch, K. N. See **Smith, L. H.**

Wheeler, R. V. See **Ashmore, J. E.**, **Guénault, E. M.**, and **Hibbott, H. W.**

White, H., obituary notice of, 1481.

Whitmore, F. C., and **Fleming, G. H.**, electronic versus ionic mechanisms for intramolecular rearrangements, 1269.

Whitmore, F. C. See also **Beattie, R. W.**

Whytlaw-Gray, R. See **Denbigh, K. G.**

Wightman, A. See **Butler, J. A. V.**

Wild, W. See **Spence, R.**

Williams, E. G., and **Hinshelwood, C. N.**, factors determining the velocity of reactions in solution; molecular statistics of the benzoylation of amines, 1079.

Williams, E. H. See **Parkes, G. D.**

- Williams, F. R. See Dippy, J. F. J.
Williams, H. G. See Jones, W. J.
Williams, R. B. See Hammick, D. L.
Williams, S. B. C. See Plant, S. G. P.
Wilman, H. See Finch, G. I.
Wilmut, H. F. See Hammick, D. L.
Wilson, Cecil L., reversal of emulsion type, 1360.
Wilson, Cecil L. See also Russell, A.
Wilson, Christopher L., optical activity in relation to tautomeric change. Part III. Constitutional and catalytic influences on the rates of racemisation of prototropic compounds, 98.
Wilson, Christopher L. See also Day, J. N. E., Hughes, E. D., and Ingold, C. K.
Wilson, F. J. See Crawford, A. B.
Wolfenden, J. H. See Askew, F. A., Jackson, N. S., and Lawrence, V. D.
- Wood, C. E. See Harris, T. L., and Herbert, R. W.
Wood, E. E., obituary notice of, 2019.
Wood, W. F. J., obituary notice of, 1482.
Wright, H. R. See Heilbron, I. M.
Wright, J. M. See Kon, G. A. R.
Wright, R. See MacFarlane, W.
Wyatt, G. H. See Drew, H. D. K.

Y.

Yudkin, J. See Hughes, A. H.

Z.

Zilva, S. S. See Haworth, W. N.