

INDEX OF AUTHORS, 1937.

- Abraham, E. P., Mowat, E. L. R., and Smith, J. C.**, addition of hydrogen bromide to non-terminal double bonds; effect of the alkyl groups, 948.
- Adams, D. A. W.** See **Rowe, F. M.**
- Adamson, D. W., and Kenner, J.**, improved preparations of aliphatic diazo-compounds, and certain of their properties, 1551.
- Adamson, P. S., McQuillin, F. J., Robinson, R., and Simonsen, J. L.**, synthetic cyperones and their comparison with α - and β -cyperones, 1576.
- Addis, H. W.** See **Davies, W. C.**
- Ainley, A. D., and Robinson, R.**, interaction of arylated unsaturated substances with diazonium salts, 369.
- nitrogenous anthocyanins. Part III. Preliminary experiments with betanidin. Part V. Synthesis of substituted aminoflavylum salts, 446, 453.
- Alexander, A. E.**, monolayers of porphyrins and related compounds, 1813.
- Ali, A., Desai, R. D., Hunter, R. F., and Muhammad, S. M. M.**, the Friedel-Crafts condensation of substituted glutaric anhydrides with benzene and formation of isomeric benzoylphenylpropionic acids in the reaction between phenylsuccinic anhydride and benzene, 1013.
- Allmand, A. J.** See **Craggs, H. C., and Squire, G. V. V.**
- Anderson, A. R., and Briggs, L. H.**, the alkaloid of *Solanum auriculatum*, Ait, 1036.
- Anderson, J. S., Purcell, R. H., Pearson, T. G., King, A., James, F. W., Emel us, H. J., and Briscoe, H. V. A.**, micro-flotation method for precise comparison of liquid densities and its application to a preliminary investigation of the distribution of heavy water in certain salt hydrates and to other matters, 1492.
- Appel, H., Baker, W., Hagenbach, H., and Robinson, R.**, experiments on synthesis of brazilin and h matoxylin. Part V., 738.
- Argyle, C. S., and Dyson, G. M.**, constitution and reactions of thiocarbonyl tetrachloride. Part IV. Reaction with secondary and tertiary amines, 1629.
- Ashley, J. N.**, preparation of 4-methoxy-2:5-toluquinone, 1471.
- Aston, F. W., Bohr, N., Hahn, O., Harkins, W. D., and Urbain, G.**, first report of the Committee on atoms of the International Union of Chemistry, 1910.
- Ayling, E. E.** See **Hinkel, L. E.**
- B.**
- Bacon, R. G. R., and Farmer, E. H.**, formation of diene hydrocarbons. Part I. Principles relating to the course of reaction in dehydration of unsaturated alcohols; co-formation of $\alpha\alpha$ - and $\alpha\gamma$ -dimethylbutadiene, 1065.
- Bailey, K. C., and Taylor, G. T.**, retardation of chemical reactions. Part VII. Reaction between potassium permanganate and hydrogen peroxide in acid solution, 994.
- Baker, J. W., Dippy, J. F. J., and Page, J. E.**, dissociation constants of alkyl-substituted benzoic and phenylacetic acids, 1774.
- Baker, J. W., and Laufer, (Miss) A. S.**, condensation of methyl pyruvate with methyl malonate in the presence of anhydrous zinc chloride, 1342.
- Baker, W.**, studies in chelation. Part V. Hydroxy-acetylhydrindenes, 476.
- Baker, W., and Carruthers, G. N.**, studies in chelation. Part VI. Hydroxy-derivatives of acetylnaphthalenes, benzonitrile, and carboxylic esters, 479.
- Baker, W., and McGowan, J. C.**, pinacols derived from *o*-hydroxyacetophenones, 559.
- Baker, W., Robinson, R., and Simpson, N. M.**, synthetical experiments in the isoflavone group. Part VIII. ψ -Baptigenin, 805.
- Baker, W.** See also **Appel, H.**
- Baldwin, W. C. G.**, rotatory dispersion of organic compounds; first oxidation product of ascorbic acid, 125.
- Baldwin, W. C. G.** See also **Lowry, T. M.**
- Banks, W. H.**, molecular solution volumes of optical isomers, 1857.
- Barger, G., and Blackie, J. J.**, alkaloids of *Senecio*. Part III. Jacobine, jacodine, and jaconine, 584.
- Barger, G., Martin, W. F., and Mitchell, W.**, minor alkaloids of *Duboisia myoporoides*, 1820.
- Barger, G., Robinson, R., and Short, W. F.**, synthetical experiments relating to carpaine. Part II., 715.
- Barger, G., Robinson, R., and Smith, L. H.**, synthetical experiments relating to carpaine. Part III. Some derivatives of tetrahydrofuran and intermediates of the aliphatic series, 718.
- Barger, G., Robinson, R., and Urushibara, Y.**, synthetical experiments relating to carpaine. Part I. Synthesis of a basic long-chain lactone, 714.
- Barger, G., Robinson, R., and Work, T. S.**, constitution of carpaine. Part III., 711.
- Basford, F. R.**, derivatives of 4-cyclohexyldiphenyl. Part III., 1440.
- Bassett, H., Gordon, H. F., and Henshall, J. H.**, the three-component systems composed of cobalt chloride and water with either calcium, strontium, or thorium chloride, 971.
- Bateman, L. C., and Hughes, E. D.**, mechanism of substitution at a saturated carbon atom. Part IX. R le of the solvent in the first-order hydrolysis of alkyl halides, 1187.
- Batty, J. W., Burawoy, A., Heilbron, I. M., Jones, W. E., and Lowe, A.**, studies in the synthesis of vitamin-A. Part III., 755.
- Baughan, E. C.** See **Bell, R. P.**
- Baxter, G. P., H nigschmid, O., and Lebeau, P.**, sixth and seventh reports of the Committee on atomic weights of the International Union of Chemistry, 1893, 1900.
- Beckett, T., and Dyson, G. M.**, reactions of thiocarbonyl chloride. Part V. With compounds containing the $-\text{NH}\cdot\text{NH}_2$ group, 1358.
- Bell, D. J., Friedmann, E., and Williamson, S.**, reaction between sodium iodide and toluenesulphonyl derivatives of glucofuranose, 252.
- Bell, D. J., and Syngde, R. L. M.**, a new reaction of 4:6-ethylidene β -methylglucoside derivatives: 4:6-dimethyl glucose, 1711.

- Bell, J.**, salt hydrates and deuterates. Part I. Dissociation pressures of certain deuterates, 459.
- Bell, (Miss) J. C., Bridge, W., and Robertson, A.**, constituents of the bark of *Zanthoxylum Americanum* (Mill). Part IV. Constitution of xanthyletin, 1542.
- Bell, R. P.**, kinetics of the aldol condensation, 1637.
- Bell, R. P., and Baughan, E. C.**, acid-base catalysis in depolymerisation of dimeric dihydroxyacetone, 1947.
- Bennett, G. M., Leslie, (Miss) M. S., and Turner, E. E.**, configuration of heterocyclic compounds. Part V. Thianthren and phenoxthionine derivatives, 444.
- Bergel, F., and Todd, A. R.**, aneurin. Part VIII. Analogues of aneurin, 1504.
- Bergel, F.** See also Todd, A. R.
- Bergmann, E.**, reactive methylene groups and nitroso-compounds, 1628.
- Berry, P. A., Macbeth, A. K., and Swanson, T. B.**, carbonyl constituents of eucalyptus oils. Part I. Occurrence of cryptal. Part II. Seasonal variation of *E. cneorifolia* oil, 986, 1443. *d*-phellandral and *d*-4-isopropyl- Δ^2 -cyclohexen-1-one, 1448.
- Bessey, G. E.** See Lea, F. M.
- Beynon, J. H., Heilbron, I. M., and Spring, F. S.**, studies in the sterol group. Parts XXIX. and XXXIII. Constitution of the isomeric ethers of cholesterol, 406, 1459.
- characterisation of basseol, a tetracyclic triterpene alcohol, and its isomerisation to β -amyrenol, 989.
- Beynon, J. H.** See also Hinkel, L. E.
- Bilton, J. A., and Linstead, R. P.**, phthalocyanines. Part X. Experiments in the pyrrole, isooxazole, pyridazine, furan, and triazole series, 922.
- Birtles, R. H., and Hampson, G. C.**, investigation of steric influences on the phenomenon of mesomerism, 10.
- Blackie, J. J.** See Barger, G.
- Blaschko, H.** See Richter, D.
- Blount, B. K., and Plant, S. G. P.**, reaction between anthranilic acid and cyclopentanone, 376.
- Bohr, N.** See Aston, F. W.
- Boorman, E. J.** See Newitt, D. M.
- Borg, P.**, obituary notice of, 170.
- Bottomley, A. C., Cocker, W., and Nanney, (Miss) P.**, preparation of *m*-dimethylaminobenzaldehyde, 1891.
- Bowman, A.**, some pyrimidine derivatives, 494.
- Bradfield, A. E., Pritchard, R. R., and Simonsen, J. L.**, constitution of α -cyperone, 760.
- Bradley, W.**, kationoid reactivity of aromatic compounds. Part III. Action of piperidine on meso-benzanthrone, 1091.
- Bradley, W., and Eaton, J. K.**, acylation of diazomethane. Part II. Reaction of diazomethane with *O*-acetylmandelyl chloride and some transformations of the product, 1913.
- Bradley, W., and Jadhav, G. V.**, kationoid reactivity of aromatic compounds. Part IV. Hydroxylation of mesobenzanthrone, 1791.
- Bradshaw, F.**, obituary notice of, 1327.
- Bridge, W., Crocker, A. J., Cubin, T., and Robertson, A.**, experiments on the synthesis of rotenone and its derivatives. Part XIII., 1530.
- Bridge, W., Heyes, R. G., and Robertson, A.**, experiments on the synthesis of rotenone and its derivatives. Part XII. The 2:2-dimethyl- Δ^3 -chromen residue of toxicarol, 279.
- Bridge, W.** See also Bell, (Miss) J. C.
- Briggs, L. H.**, identity of dacrene and sciadopitene with phyllocladene, 79.
- identity of α -dihydrophyllocladene with iosene, 1035.
- Briggs, L. H., and De Ath, G. C.**, synthesis of dihydrocarbostyryl and homodihydrocarbostyryl by ring enlargement and a synthesis of tetrahydroquinoline, 456.
- Briggs, L. H., and Frieberg, A. G.**, the resinol of *Olea Cunninghamii* (Maire), 271.
- Briggs, L. H., and Ricketts, J.**, *Sophora* alkaloids. Part I. Alkaloids of the seeds of *S. microphylla*, Ait, 1795.
- Briggs, L. H.** See also Anderson, A. R.
- Briscoe, H. V. A.** See Anderson, J. S., and Emeléus, H. J.
- Britton, H. T. S., and Welford, G.**, potential of the normal and the decinormal calomel electrodes at temperatures ranging from 12.5° to 91°, 1846.
- standardisation of some buffer solutions at elevated temperatures, 1848.
- Brown, (Miss) E. L., and Campbell, N.**, studies in qualitative organic analysis; identification of alkyl halides, amines, and acids, 1699.
- Brunner, H., and Farmer, E. H.**, mechanism of polymerisation. Part I. Dimeric tetramethylethylene, 1039.
- Buchanan, C.**, influence of solvents and of other factors on the rotation of optically active compounds. Part XXXIV. Influence of water and of deuterium oxide, 581.
- Buckler, E. J.**, spontaneous polymerisation of liquid propaldehyde, 1036.
- Burawoy, A.**, studies in the sterol group. Part XXX. Oxidation of ergosterol, ergosteryl acetate, and lumisteryl acetate with chromic anhydride, 409.
- studies in light absorption of organic compounds Part VIII. Azo-compounds, 1865.
- Burawoy, A., Gibson, C. S., Hampson, G. C., and Powell, H. M.**, constitution of diethylmonobromogold and di-*n*-propylmonocyanogold, 1690.
- Burawoy, A.** See also Batty, J. W.
- Burnham, W. R., and Madgin, W. M.**, equilibrium constants in terms of activities (cryoscopic). Part VI. Pyridine *p*-chlorophenoxide in benzene and in *p*-dichlorobenzene, 606.
- Burstall, F. H.** See Morgan, (Sir) G. T.
- Burton, H., and Shoppee, C. W.**, $\alpha\beta$ -diphenylpropaldehyde, 546.
- Burton, H., and Stoves, J. L.**, alkaline hydrolysis of the azlactones derived from certain *o*-nitrobenzaldehydes; formation of isatins, 402.
- synthesis of 5- and 6-benzoyloxyindoles and attempts to prepare 5- and 6-hydroxyindoles therefrom, 1726.
- Bushell, W. J., and Hilditch, T. P.**, course of hydrogenation in mixtures of mixed glycerides, 1767.
- Butement, F. D. S., and Terrey, H.**, absorption spectrum of bivalent samarium, 1112.
- Butler, J. A. V.** See Orr, W. J. C.
- Bywater, R. A. S., Haworth, W. N., Hirst, E. L., and Peat, S.**, polysaccharides. Part XXVI. Xylan, 1983.

C.

- Callow, H. J., and Hill, D. W.**, condensation of deoxybenzoin with aromatic aldehydes and ketones. Part II. Condensation of substituted deoxybenzoins with substituted acetophenones, 844.
- Campbell, N.** See Brown, (Miss) E. L., and McLeish, (Miss) N.
- Carruthers, G. N.** See Baker, W.

- Carter, A. H., Moulds, L. de V., and Riley, H. L.**, nature of the solid carbon-oxygen complex. Part I. Oxidative action of graphitic oxide and active carbon plus oxygen on some aromatic amines, 1305.
- Chakravarti, S. N., and Pasupati, V.**, studies in the naphthalene series. Part I. Preparation of polyhydroxy-derivatives of naphthalene, 1859.
- Challenger, F., and Rawlings, A. A.**, formation of organo-metalloidal and similar compounds by micro-organisms. Part V. Methylated alkyl sulphides; fission of the disulphide link, 868.
- Chamberlain, E. A. C.** See **Kane, G. P.**
- Chamberlain, K. A.** See **Haworth, W. N.**
- Chambers, A. R.** See **Rule, H. G.**
- Chaplin, E. J.** See **Mann, F. G.**
- Chaplin, H. O., and Hunter, L.**, associating effect of the hydrogen atom. Part I. Amides and sulphonamides, 1114.
- Chapman, D. L., and Chapman, (Mrs.) M. C. C.**, experiments on the combination of nitrogen peroxide and nitric oxide in the absence of moisture, 1991.
- Chapman, D. L., and Moignard, L. A.**, lubrication of taps with the phosphoric acids, 1936.
- Chapman, (Mrs.) M. C. C.** See **Chapman, D. L.**
- Chattaway, F. W., and Drew, H. D. K.**, chelation of diamines with cupric salts, 947.
- Cheetham, K. H., and Hey, D. H.**, migration reactions in polycyclic systems. Part II. The Fries rearrangement of 4-acetoxydiphenyl, 770.
- Clare, N. T.** See **Robertson, P. W.**
- Clarke, T. E.**, obituary notice of, 170.
- Clemo, G. R., and Dickenson, H. G.**, action of selenium on compounds containing quaternary carbon atoms, 255.
- Clemo, G. R., and Metcalfe, T. P.**, syntheses in the octahydropyrococline and octahydropyridococline series, 1518.
bicyclo[1:2:2]aza-1-heptane, 1523.
2-ketoquinuclidine and a new synthesis of quinuclidine, 1989.
- Clemo, G. R., Morgan, W. McG., and Raper, R.**, lupin alkaloids. Part XII. Synthesis of *dl*-lupinine and *dl*-isolupinine, 965.
- Cocker, W.**, preparation of the simpler α -alkylamino-acids. Parts I. and II., 1693, 1695.
- Cocker, W.** See also **Bottomley, A. C.**
- Cohen, A., and Warren, F. L.**, synthesis of compounds related to the sterols, bile acids, and oestrus-producing hormones. Part XI. A "diene-synthesis" of phenanthrene and hydrophenanthrene derivatives, 1315.
- Coleman, R. N., and Prideaux, E. B. R.**, combination of fatty acids with nitrogen bases. Part IV. Diethylamine and propionic acid: densities, surface tensions, conductivities, and viscosities of the liquid anhydrous system, 1022.
- Coleman, R. N.** See also **Prideaux, E. B. R.**
- Connolly, J. M., and Dyson, G. M.**, constitution and reactions of thiocarbonyl tetrachloride. Part III. Reaction with primary alkylamines and phenols, 827.
- Cook, A. H., and Linstead, R. P.**, phthalocyanines. Part XI. Preparation of octaphenylporphyrazines from diphenylmaleinitrile, 929.
- Cook, (Miss) D. E., and Turner, E. E.**, racemisation of some *d-o*-(2-dimethylaminophenyl)phenyltrimethylammonium salts, 88.
some 2:2'-derivatives of diphenyl, 117.
- Cook, J. W., and De Worms, C. G. M.**, glucosides related to carcinogenic hydrocarbons, 1825.
- Cook, J. W., and Goulden, F.**, 4-phenylcyclohexyl-acetic acid, 1559.
- Cook, J. W., and Lawrence, C. A.**, synthesis of polyterpenoid compounds. Part III., 817.
- Cook, J. W., Robinson, (Mrs.) A. M., and Goulden, F.**, polycyclic aromatic hydrocarbons. Part XV. New homologues of 1:2-benzanthracene, 393.
- Cooke, R. G., and Macbeth, A. K.**, reactions of $\alpha\beta$ -unsaturated cyclic aldehydes and ketones. Part I. Their conversion into anilines, 1593.
- Cooper, K. A., and Hughes, E. D.**, mechanism of substitution at a saturated carbon atom. Part VIII. Hydrolysis of *tert*-butyl halides, 1183.
- Cooper, K. A., Hughes, E. D., and Ingold, C. K.**, mechanism of elimination reactions. Part III. Unimolecular olefin formation from *tert*-butyl halides in acid and alkaline aqueous solutions, 1280.
- Coulson, E. A.**, studies in tar hydrocarbons. Part I. Reduction products of pyrene, 1298.
- Coward, H. F., and Georgeson, E. H. M.**, diffusion coefficient of methane and air, 1085.
- Coward, H. F., Hartwell, F. J., and Georgeson, E. H. M.**, studies in the mechanism of flame movement. Part IV. The vibratory period, 1482.
- Cowdrey, W. A., Hughes, E. D., and Ingold, C. K.**, reaction kinetics and the Walden inversion. Part III. Homogeneous hydrolysis and alcoholysis of α -bromopropionic acid, its ester and anion. Part V. Action of silver salts in hydroxylic solvents on α -bromopropionic acid, its methyl ester, and sodium salt, 1208, 1243.
- Cowdrey, W. A., Hughes, E. D., Ingold, C. K., Masterman, S., and Scott, A. D.**, reaction kinetics and the Walden inversion. Part VI. Relation of steric orientation to mechanism in substitutions involving halogen atoms and simple or substituted hydroxyl groups, 1252.
- Cowley, E. G., and Partington, J. R.**, studies in dielectric polarisation. Part XXI. Effect of solvent and temperature upon the polarisation and apparent moments of bromides, 130.
- Cox, E. G., Shorter, A. J., Wardlaw, W., and Way, W. J. R.**, stereochemistry of quadricovalent atoms: cobalt and manganese, 1556.
- Cox, E. G.** See also **Llewellyn, F. J.**
- Cox, R. G.** See **Davies, W. C.**
- Craggs, H. C., and Allmand, A. J.**, photochemical union of hydrogen and chlorine. Part VII. Effect of water vapour on the reaction at low pressures, 1889.
- Craggs, H. C., Squire, G. V. V., and Allmand, A. J.**, photochemical union of hydrogen and chlorine. Part VI. Mechanism of the reaction at low hydrogen pressures in absence of oxygen, 1878.
- Crawford, James.** See **Rule, H. G.**
- Crawford, John.** See **Wren, H.**
- Crocker, A. J.** See **Bridge, W.**
- Crook, E. M., and Davies, W.**, thionaphthen-2-acetic acid, 1697.
- Crook, J. H.** See **Hodgson, H. H.**
- Cubin, T.** See **Bridge, W.**
- Curd, F. H., and Robertson, A.**, usnic acid. Part V., 894.
- Cusa, N. W., and McCombie, H.**, some unsaturated sulphides derived from the chloroethylenes, 767.
- Cutler, W. O., Haworth, W. N., and Peat, S.**, methylation of glucosamine, 1979.

D.

- Datta, S. C., Day, J. N. E., and Ingold, C. K.**, exchange between light and heavy oxygen. Part I. Oxygen interchange between sulphate ions and water, 1968.
- Davies, C. W.**, conductivity of potassium chloride solutions, 432, 1326.

- Davies, C. W.** See also **Robinson, R. A.**
Davies, W. See **Crook, E. M.**
Davies, W. C., and **Addis, H. W.,** basic strengths of tertiary amines, phosphines, and arsines, 1622.
Davies, W. C., and **Cox, R. G.,** formation and decomposition of quaternary ammonium salts in solution, 614.
Day, J. N. E. See **Datta, S. C.**
De Ath, G. C. See **Briggs, L. H.**
Desai, R. D. See **Ali, A.**
De Worms, C. G. M. See **Cook, J. W.**
Dey, A. N., jaborandi alkaloids. Part I. Synthesis of homo- and isohomo-pilopic acids and of *r*-pilocarpidine and *r*-isopilocarpidine by new methods and the resolution of *r*-pilocarpine, 1057. new syntheses of *dl*-thiohistidine, 1166.
Dickenson, H. G. See **Clemon, G. R.**
Dickinson, D., and **Graymore, J.,** methyleneimines: determination of parachor, 1368.
Dippy, J. F. J., Evans, D. P., Gordon, J. J., Lewis, R. H., and **Watson, H. B.,** studies of the *ortho*-effect. Part I. Influence of substituents in the *ortho*-position upon the chemical characters of carboxylic acids and their derivatives, 1421.
Dippy, J. F. J., and **Lewis, R. H.,** chemical constitution and the dissociation constants of monocarboxylic acids. Part VI. (a) Polarity of vinyl and phenyl groups. (b) Apparent linear relationship between dissociation constants and dipole moments, 1008. studies of the *ortho*-effect. Part II. Dissociation constants of some *o*-substituted acids, 1426.
Dippy, J. F. J. See also **Baker, J. W.**
Donald, M. B., the system potassium chloride-potassium chlorate-water at 20°, 50°, and 75°, 1325.
Drake, J. W., obituary notice of, 1327.
Drew, H. D. K., and **Garwood, R. F.,** chemiluminescent organic compounds. Part V. The methyl derivatives of 5-nitro- and 5-amino-phthalaz-1:4-dione; structural features in relation to chemiluminescence, 1841.
Drew, H. D. K., and **Hatt, H. H.,** chemiluminescent organic compounds. Part I. Isomeric simple and complex hydrazides of phthalic acid and mode of formation of phthalazine and isoindole rings, 16.
Drew, H. D. K., Hatt, H. H., and **Hobart, F. A.,** chemiluminescent organic compounds. Part III. *N*-Methylated phthalaz-1:4-diones, 33.
Drew, H. D. K., Head, F. S. H., and **Tress, H. J.,** stereochemistry of plato-tetramines, 1549.
Drew, H. D. K., and **Pearman, F. H.,** chemiluminescent organic compounds. Part II. Effect of substituents on the closure of phthalhydrazides to 5- and 6-membered rings. Part IV. Amino- and hydrazino-cyclophthalhydrazides and their relative luminescent power, 26, 586.
Drew, H. D. K., and **Pratt, N. H.,** interactions of cobalt chloride and ethylenediamine, 506.
Drew, H. D. K. See also **Chattaway, F. W.**
Druce, J. G. F., ethoxides and isopropoxides of manganese and rhenium, 1407.
Du Feu, E. C., McQuillin, F. J., and **Robinson, R.,** experiments on synthesis of substances related to the sterols. Part XIV. Simple synthesis of certain octalones and ketotetrahydrohydrindenes which may be of angle-methyl-substituted type; theory of the biogenesis of the sterols, 53.
Dyson, G. M. See **Argyle, C. S., Beckett, T.,** and **Connolly, J. M.**
Dyson, P., and **Hammick, D. L.,** experiments on mechanism of decarboxylation. Part I. Decomposition of quinaldinic and isoquinaldinic acids in the presence of compounds containing carbonyl groups, 1724.
- E.**
- Earl, J. C.,** decomposition of aniline nitrite, 1129.
Earl, J. C., and **Hazlewood, S. J.,** action of alkaline reagents on some nitroso- α -arylamino-ketones and their oximes, 374.
Eaton, J. K. See **Bradley, W.**
Edwards, E. G., and **Evans, D. P.,** application of the glass electrode to measurement of p_H of slightly buffered and unbuffered solutions, 1938.
Edwards, E. G., Evans, D. P., and **Watson, H. B.,** electrometric study of dilute aqueous solutions of halogenated ketones, 1942.
Elliott, R. L. See **Hodgson, H. H.**
El Shurbagy, M. R. See **Malkin, T.**
Emel us, H. J., and **Briscoe, H. V. A.,** preparation and properties of methyldeuteramine, 127.
Emel us, H. J. See also **Anderson, J. S.**
Errington, K. D. See **Linstead, R. P.**
Evans, D. P., Gordon, J. J., and **Watson, H. B.,** studies of the *ortho*-effect. Part III. Alkaline hydrolysis of benzoic esters, 1430.
Evans, D. P. See also **Dippy, J. F. J.,** and **Edwards, E. G.**
Evans, H. C. See **Maxted, E. B.**
Evans, U. R. See **Miley, H. A.**
Evans, W. J., and **Smiles, S.,** covalent alkaline derivatives of di-2-hydroxy-1-naphthyl sulphide and of di-2-hydroxy-1-naphthylmethane, 727.
- F.**
- Fairbrother, F.,** electrolytic dissociation processes. Part II. The Friedel-Crafts reaction, 503.
Fairclough, R. A., and **Hinshelwood, C. N.,** functional relation between the constants of the Arrhenius equation; solvent effects in the formation of quaternary ammonium salts, 538, 1573.
Falconer, R., and **Gulland, J. M.,** constitution of the purine nucleosides. Part V. Adenine thiomethylpentoside, 1912.
Farmer, E. H. See **Bacon, R. G. R.,** and **Brunner, H.**
Farmer, S. N., and **Kon, G. A. R.,** saponinins. Part II. Sarsasapogenin and smilagenin, 414.
Fisher, (Miss) N. I., and **Hamer, (Miss) F. M.,** azacyanines, 907.
Fitzgerald, J. S., and **Kon, G. A. R.,** structure of the glutamic acids and esters. Part IX. α -Methyl- and α -ethyl-glutamic acids, 725.
Fordham, S., and **Tyson, J. T.,** structure of semipermeable membranes of inorganic salts, 483.
France, H., Maitland, P., and **Tucker, S. H.,** condensation of fluorene with acetone. Part II., 1739.
Francis, F., King, (Miss) A. M., and **Willis, J. A. V.,** long-chain carbon compounds; *n*-tetracontanoic and *n*-hexatetracontanoic acids and their derivatives, 999.
Freundlich, H., and **Steiner, (Miss) D.,** observations on colloidal solutions of silver and copper, 1081.
Friberg, A. G. See **Briggs, L. H.**
Friedmann, E. See **Bell, D. J.**
Friend, J. N., Hale, R. W., and **Ryder, S. E. A.,** the solubility of lithium chloride in water between 70° and 160°, 970.
- G.**
- Gall, D.** See **Robertson, G. J.**
Gallus, H. P., and **Macbeth, A. K.,** labile nature of the halogen atom in organic compounds. Part XV. Action of hydrazine on bromomalonate esters, 1810.

- Garner, *W. E.*, and Pike, *H. V.*, dehydration nuclei on crystals of copper sulphate pentahydrate, 1565.
- Garwood, *R. F.* See Drew, *H. D. K.*
- Gaubert, *P.*, Linstead, *R. P.*, and Rydon, *H. N.*, investigations of the olefinic acids. Part XVI. Synthesis of Δ^{10} -*n*-undecenoic acid. Part XVII. Addition of hydrogen bromide to heptenoic and nonenoic acids with terminal double bonds, 1971, 1974.
- Gee, *G.*, and Rideal, *E. K.*, catalysed polymerisation in monolayers of drying oils, 772.
- George, *S. W.*, and Robertson, *A.*, experiments on synthesis of rotenone and its derivatives. Part XIV. Structure of toxicarol, 1535.
- Georgeson, *E. H. M.* See Coward, *H. F.*
- German, *W. L.*, Jeffery, *G. H.*, and Vogel, *A. I.*, dissociation constants of organic acids. Part XIX. Some unsaturated acids, 1604.
- German, *W. L.*, and Vogel, *A. I.*, dissociation constants of organic acids. Part XVIII. Some cyclic 1:1-diacetic acids, 1108.
- Gerrard, *W.*, Kenyon, *J.*, and Phillips, *H.*, replacement of the hydroxyl group of ethyl (+) lactate by halogens, and the molecular dissymmetry of derivatives of ethyl lactate which contain the sulphur group, 153.
- Gibbs, *E. M.* See Henry, *T. A.*
- Gibson, *C. S.* See Burawoy, *A.*
- Gibson, *D. T.*, mobility of groups containing a sulphur atom. Part IV., 1509.
- Gibson, *D. T.*, and Loudon, *J. D.*, exchange of sulphonyl groups, 487.
- Gibson, *J.*, obituary notice of, 1745.
- Gillam, *A. E.* See Rowe, *F. M.*
- Glazebrook, *H. H.*, and Pearson, *T. G.*, free radicals and atoms in primary photochemical processes; dissociation of aliphatic ketones: the acetyl radical, 567.
- Glud, *W.*, obituary notice of, 1747.
- Goddard, *A. E.*, mercuration of nitrotoluidines, 984.
- Godward, *L. W. N.*, and Ward, *A. M.*, elimination of the phosphate radical in qualitative analysis, 1337.
- Goldschmidt, *V. M.*, principles of distribution of chemical elements in minerals and rocks, 655.
- Goldsworthy, *L. J.*, and Robinson, *R.*, synthesis of tangeritin, 46.
- Goodeve, *C. F.*, and Marsh, *A. E. L.*, heat of decomposition of dichlorine heptoxide, 1161.
- thermochemistry of perchloric acid and the perchlorates, 1816.
- Goodeve, *C. F.*, and Richardson, *F. D.*, dichlorine hexoxide, 294.
- Goodwin, *T. H.* See Llewellyn, *F. J.*
- Gordon, *H. F.* See Bassett, *H.*
- Gordon, *J. J.* See Dippy, *J. F. J.*, and Evans, *D. P.*
- Goss, *F. R.*, magnitude of the solvent effect in dipole-moment measurements. Part I. Polarisation of carbon tetrachloride solutions, 1915.
- Goulden, *F.* See Cook, *J. W.*
- Graymore, *J.* See Dickinson, *D.*
- Green, *T. G.*, and Hilditch, *T. P.*, oxidation of some polyhydroxylic and polyethylenic higher fatty acids by aqueous alkaline permanganate solutions, 764.
- Grieve, *J. L.*, and Rule, *H. G.*, oxidation products of benzanthrone-8-carboxylic acid, 535.
- Griffith, *C. F.* See Morgan, *(Sir) G. T.*
- Grignard, *V.*, obituary notice of, 171.
- Gross, *R. F. J.*, and Hickling, *A.*, studies in electrolytic oxidation. Part IX. Anodic oxidation of chromic salts to chromates, 325.
- Groves, *L. G.*, and Sugden, *S.*, dipole moments of vapours. Part III. Homologous series. Part IV. Aliphatic ethers and amines; the magnitude of atomic polarisation. Part V. Aromatic compounds. Part VI. Bond moments and mesomeric moments, 158, 1779, 1782, 1992.
- Gulland, *J. M.* See Falconer, *R.*
- Gwan, *Y. S.* See Peacock, *D. H.*

H.

- Hagenbach, *H.* See Appel, *H.*
- Hahn, *O.* See Aston, *F. W.*
- Hale, *R. W.* See Friend, *J. N.*
- Haller, *J. W. E.* See Wren, *H.*
- Halpin, *J. F.*, obituary notice of, 179.
- Hamer, *(Miss) F. M.* See Fischer, *(Miss) N. I.*
- Hammick, *D. L.*, and Langrish, *(Miss) D.*, estimation of cyclopentadiene and indene, and their polymerisation in carbon tetrachloride solution, 797.
- Hammick, *D. L.*, and Lister, *M. W.*, photochemistry of some aliphatic nitroso-compounds, 489.
- Hammick, *D. L.* See also Dyson, *P.*
- Hampson, *G. C.* See Birtles, *R. H.*, and Burawoy, *A.*
- Harford, *A. D.*, and Hill, *D. W.*, reactions of *o*-hydroxybenzylidenediacetophenones. Part VII. Flavylum salts from dihydrochalcones, 41.
- Harkins, *W. D.* See Aston, *F. W.*
- Harper, *S. H.*, cyclisation of 2-(β -1'-naphthylethyl)- Δ^2 -cyclopentenone, 1859.
- Harris, *T. L.*, Hirst, *E. L.*, and Wood, *C. E.*, optical rotatory dispersion in the carbohydrate group. Part VIII. Tetramethyl δ -gluconolactone and tetramethyl δ -galactonolactone, 848.
- Hartley, *G. S.*, azo-indicators with a quaternary ammonium group, 1026.
- Hartwell, *F. J.* See Coward, *H. F.*
- Hatt, *H. H.* See Drew, *H. D. K.*
- Haworth, *R. D.*, some derivatives of homophthalimide, 1312.
- Haworth, *R. D.*, and Kelly, *W.*, constituents of natural phenolic resins. Part VIII. Lariciresinol, cubebin, and some stereochemical relationships. Part IX. Structure of lariciresinol and preliminary experiments on the synthesis of lignandiols, 384, 1645.
- Haworth, *W. N.*, Hirst, *E. L.*, and Chamberlain, *K. A.*, acetone derivatives of gluconic acid, 795.
- Haworth, *W. N.*, Hirst, *E. L.*, and Isherwood, *F. A.*, polysaccharides. Part XXIII. Determination of the chain length of glycogen. Part XXIV. Yeast mannan, 577, 784.
- degradation of methylated inulin to hexamethyl difructosan, 782.
- Haworth, *W. N.*, Hirst, *E. L.*, and Jones, *J. K. N.*, gluco-ascorbic acid, 549.
- Haworth, *W. N.*, Hirst, *E. L.*, Kitchen, *H.*, and Peat, *S.*, polysaccharides. Part XXV. α -Amylodextrin, 791.
- Haworth, *W. N.*, Hirst, *E. L.*, Smith, *F.*, and Wilson, *W. J.*, isomerisation of 2:3-dimethyl ascorbic acid, 829.
- Haworth, *W. N.*, Hirst, *E. L.*, and Woolvin, *C. S.*, ring structure of xylal, 780.
- Haworth, *W. N.* See also Bywater, *R. A. S.*, and Cutler, *W. O.*
- Hazlewood, *S. J.* See Earl, *J. C.*
- Head, *F. S. H.* See Drew, *H. D. K.*
- Heersamaneck, *V. R.*, and Shah, *R. C.*, imidochlorides. Part V. Synthesis of hydroxycarbethoxyphenyl- α - and - β -naphthaquinolines, 867.
- Heilbron, *I. M.*, Jones, *E. R. H.*, and Spring, *F. S.*, studies in the sterol group. Part XXXII. Bromination of 6-ketocholestanyl acetate, 801.

- Heilbron, I. M., Moffet, G. L., and Spring, F. S.**, studies in the sterol group. Part XXXI. Structure of lumisterol, 411.
- Heilbron, I. M.** See also **Batty, J. W.**, and **Beynon, J. H.**
- Hems, B. A., and Todd, A. R.**, anthelmintics: kouso. Part I. Protokosin, 562.
- Hems, B. A.** See also **Stevens, T. S.**
- Henry, T. A., Solomon, W., and Gibbs, E. M.**, modified cinchona alkaloids. Part IV. Constitution, 592.
- Henshall, J. H.** See **Bassett, H.**
- Hey, D. H.** See **Cheetham, K. H.**
- Heyes, R. G.** See **Bridge, W.**
- Hickinbottom, W. J.**, rearrangement of the alkyl-anilines. Part VII. Behaviour of alkylanilines with *tert.*-alkyl groups. Part VIII. Migration of large groups, 404, 1119.
- Hickling, A.** See **Gross, R. F. J.**
- Higginbottom, (Miss) A., Hill, P., and Short, W. F.**, syntheses in the phenanthrene series. Part V. 4-Methoxy-1-methylphenanthrene, 263.
- Hilditch, T. P.** See **Bushell, W. J.**, and **Green, T. G.**
- Hill, D. W.** See **Callow, H. J.**, and **Harford, A. D.**
- Hill, P., and Short, W. F.**, syntheses in the phenanthrene series. Part IV. 1-Methoxy-2-methylphenanthrene and the preparation of substituted phenylacetic acids, 260.
- Hill, P., Short, W. F., and Stromberg, H.**, syntheses in the phenanthrene series. Part VII. 5:9-Dimethoxy- and 5-methoxy-1-methylphenanthrene. Part VIII. 8-Methoxy-1-methylphenanthrene, 937, 1619.
- Hill, P., Short, W. F., Stromberg, H., and Wiles, A. E.**, syntheses in the phenanthrene series. Part VI. 3-Methoxy-1-methylphenanthrene, 510.
- Hill, P.** See also **Higginbottom, (Miss) A.**
- Hinkel, L. E., Ayling, E. E., and Beynon, J. H.**, hydrogen cyanide synthesis of aromatic aldehydes. Part I. Dibenzfuran-3-aldehyde, 778.
- Hinkel, L. E., Richards, G. O., and Thomas, O.**, studies on hydrogen cyanide. Part X. The tetrapolymer, 1432.
- Hinshelwood, C. N.**, transition state method in chemical kinetics, 635.
- Hinshelwood, C. N.** See also **Fairclough, R. A.**, and **Staveley, L. A. K.**
- Hirst, E. L.** See **Bywater, R. A. S.**, **Harris, T. L.**, and **Haworth, W. N.**
- Hirst, H. R.**, obituary notice of, 180.
- Hobart, F. A.** See **Drew, H. D. K.**
- Hodgson, H. H.**, tautomerism of benzoquinone-oxime-*p*-nitrosophenol systems, 520.
- Hodgson, H. H., and Crook, J. H.**, synthesis of 8:8'-dinitro-1:1'-dinaphthyl and related compounds, 571.
- Hodgson, H. H., and Elliott, R. L.**, application of Ullmann's reaction to the preparation of dinaphthyls, 123.
- Hodgson, H. H., and Holt, P. F.**, studies in the diphenyl series. Part IV. Preparation and properties of substituted diaminodiphenyls, 37.
- Hodgson, H. H., and Leigh, E.**, reactions of sodium mono- and di-sulphides with 1-chloro-2-nitro-, 2-chloro-1-nitro-, and 1-chloro-4-nitro-naphthalene, 1352.
- Hodgson, H. H., and Marsden, E.**, reaction between aniline and iodine, 1365.
- Hodgson, H. H., and Smith, E. W.**, iodination of 3-hydroxy- and of nitrated 3-hydroxy-benzaldehydes, and nitration of certain iodo-3-hydroxy-benzaldehydes, 76.
- Hodgson, H. H., and Smith, R.**, compounds of *p*-nitrodiphenyl sulphide and of *p*-nitrodiphenyl ether with sulphuric acid; example of thioquinonoid formation, 1634.
- Hönigschmid, D.** See **Baxter, G. P.**
- Holmes, (Miss) G. M.** See **Patterson, T. S.**
- Holt, P. F.** See **Hodgson, H. H.**
- Hoseason, J. H.**, obituary notice of, 181.
- Howell, O. R., and Jackson, A.**, absorption spectrum of potassium cobaltous thiocyanate, 621. absorption spectrum of solid anhydrous cobalt chloride, 973. the available surface of cellulose, 979.
- Howell, W. N., and Robertson, A.**, furano-compounds. Part I. Synthesis of bergapten, 293.
- Hudson, G. I.**, obituary notice of, 1327.
- Hughes, E. D., Ingold, C. K., and Masterman, S.**, reaction kinetics and the Walden inversion. Part I. Homogeneous hydrolysis and alcoholysis of β -*n*-octyl halides. Part IV. Action of silver salts in hydroxylic solvents on β -*n*-octyl bromide and α -phenylethyl chloride, 1196, 1236.
- Hughes, E. D., Ingold, C. K., and Scott, A. D.**, reaction kinetics and the Walden inversion. Part II. Homogeneous hydrolysis, alcoholysis, and ammonolysis of α -phenylethyl halides, 1201. mechanism of elimination reactions. Part I. Unimolecular olefin formation from alkyl halides in sulphur dioxide and formic acid, 1271.
- Hughes, E. D., Ingold, C. K., and Shapiro, U. G.**, mechanism of elimination reactions. Part II. Unimolecular olefin formation from *sec.*-octyl halides in aqueous alcohol, 1277.
- Hughes, E. D., Le Fèvre, (Mrs.) C. G., and Le Fèvre, R. J. W.**, structure of some derivatives of fluorene and fluorenone, 202.
- Hughes, E. D., and MacNulty, B. J.**, mechanism of elimination reactions. Part IV. Unimolecular olefin formation from *tert.*-amyl halides in acid and alkaline aqueous solutions, and some remarks on the scope of the unimolecular mechanism, 1283.
- Hughes, E. D., and Shapiro, U. G.**, mechanism of substitution at a saturated carbon atom. Part VII. Hydrolysis of *isopropyl* halides. Part X. Hydrolysis of β -*n*-octyl bromide, 1177, 1192.
- Hughes, E. D.** See also **Bateman, L. C.**, **Cooper, K. A.**, and **Cowdrey, W. A.**
- Hunter, L.**, the azo-group as a chelating group. Part II. Structure of the diazoamino-compounds, 320.
- Hunter, L., and Marriott, J. A.**, co-ordinated copper and nickel compounds of salicylidene derivatives, 2000.
- Hunter, L.** See also **Chaplin, H. O.**
- Hunter, R. F., and Wali, M. A.**, unsaturation and tautomeric mobility of heterocyclic compounds. Part X. Effect of ethoxyl ions on the methylation of 5-substituted 1-anilinobenzthiazoles, and the ultra-violet absorption spectra of 5-bromo-1-anilinobenzthiazole and of its *N*-methyl derivatives, 1513.
- Hunter, R. F.** See also **Ali, A.**

I.

Inglis, J. K. H., obituary notice of, 700.

Ingold, C. K. See **Cooper, K. A.**, **Cowdrey, W. A.**, **Datta, S. C.**, and **Hughes, E. D.**

Isherwood, F. A. See **Haworth, W. N.**

J.

Jackson, A. See **Howell, O. R.**

Jackson, R. W., and Short, W. F., anisoxide. Part I., 513.

Jacob, (Miss) A., and Madinaveitia, J., lability of the dimethylamino-group in some dimethylamino-ketones, 1929.

Jadhav, G. V. See Bradley, W.

James, F. W. See Anderson, J. S.

Jamison, (Miss) M. M., and Turner, E. E., some derivatives of diphenylamine and a new synthesis of *N*-arylanthranilic acids and of acridones, 1954.

Jeffery, G. H. See German, W. L.

Jenkins, G. I., and Taylor, T. W. J., the association of α -piperidone, 495.

Johnstone, C. See Ross, J. D. M.

Jones, E. R. H., and Spring, F. S., studies in the sterol group. Part XXVIII. Application of the Reformatsky reaction to 7-ketocholesteryl acetate: Δ^5 -cholestene-3:7-diol-7-acetic acid, 302.

Jones, E. R. H. See also Heilbron, I. M.

Jones, J. K. N. See Haworth, W. N.

Jones, W. E. See Batty, J. W.

Jowett, H. A. D., obituary notice of, 1328.

K.

Kane, G. P., Chamberlain, E. A. C., and Townend, D. T. A., spontaneous ignition under pressure of the simpler aliphatic hydrocarbons, alcohols, and aldehydes, 436.

Karimullah, substituted phenyl- and benzyl-thiazolium salts, 961.

Karimullah. See also Todd, A. R.

Keats, G. H., stereochemistry of thianthren, 1592.
the configurations of some *p*-menthane derivatives, 2003.

Kelham, R. M. See Mills, W. H.

Keller, R. See Todd, A. R.

Kelly, W. See Haworth, R. D.

Kenner, J., Ritchie, W. H., and Statham, F. S., synthesis of 5:6:7:8-tetrahydrophenanthridine and its derivatives, 1169.

Kenner, J., Ritchie, W. H., and Wain, R. L., a relationship between β -naphthylamine and ethyl β -aminocrotonate, 1526.

Kenner, J. See also Adamson, D. W.

Kenyon, J., Partridge, S. M., and Phillips, H., retention of asymmetry and inversion of configuration during anionotropic change; conversion of (–) α -phenyl- γ -methylallyl alcohol into (+) γ -phenyl- α -methylallyl alcohol, 207.

Kenyon, J. See also Gerrard, W.

King, A., studies in chemisorption on charcoal. Part IX. Influence of temperature of activation on the sorption of acids and bases, 1489.

King, A. See also Anderson, J. S.

King, (Miss) A. M. See Francis, F.

King, F. E., and L'Ecuyer, P., α - and β -hydroxy-laudanosines. Part II. Products of exhaustive methylation, 427.

King, H., curare alkaloids. Part III. Pot-curare, 1472.

King, H., and Stiller, E. T., synthesis of norharman-carboxylic acid and its bearing on the constitution of lysergic acid, 466.

Kipping, F. B., the stereoisomeric 2:3:5:6-tetramethylpiperazines. Part V., 368.

Kitchen, H. See Haworth, W. N.

Kon, G. A. R., Linstead, R. P., and Simons, C., synthesis of dicyclic α -ketones with an angular methyl group, 814.

Kon, G. A. R. See also Farmer, S. N., and Fitzgerald, J. S.

L.

Lal, J. B., constitution of the glucoside butrin isolated from *Butea frondosa* flowers. Part I., 1562.

Lamberton, A. H. See Patterson, T. S.

Langrish, (Miss) D. See Hammick, D. L.

Lasnitzki, A., and Oeser, E. A., radioactivity of potassium prepared from animal tissue, 1090.

Lauer, (Miss) A. S. See Baker, J. W.

Laurie, A. P., pigments, mediums, and technical methods of classical and mediæval painters, 163.

Lawrence, C. A. See Cook, J. W.

Lawson, A., and Topps, J. E. C., aconitine. Part II. Relationship between aconitine and atisine and some degradation products of the latter, 1640.

Lea, F. M., and Bessey, G. E., conductivity and p_H values of calcium hydroxide solutions at 25°, 1612.

Lebeau, P. See Baxter, G. P.

L'Ecuyer, P. See King, F. E.

Le Fèvre, (Mrs.) C. G., and Le Fèvre, R. J. W., structure of xanthone and the orientation of its α - and β -dinitro-derivatives, 196.
the moments of coumarin and its 3-phenyl derivative and of certain substituted γ -pyrones, 1088.

Le Fèvre, (Mrs.) C. G. See also Hughes, E. D.

Le Fèvre, R. J. W., polymorphism of chalkone, 1037.

Le Fèvre, R. J. W., and Vine, H., dipole moments of some aromatic diazoamino-compounds, 1805.

Le Fèvre, R. J. W. See also Hughes, E. D., and Le Fèvre, (Mrs.) C. G.

Leigh, E. See Hodgson, H. H.

Lesslie, (Miss) M. S. See Bennett, G. M.

Lewis, J. R., Ramage, G. R., Simonsen, J. L., and Wainwright, W. G., constitution of the condensation product of diphenylketen and cyclopentadiene, 1837.

Lewis, J. R., and Simonsen, J. L., constitution of sulphocamphylic acid, 457.

Lewis, R. H. See Dippy, J. F. J.

Lin, K. H., Resuggan, J., Robinson, R., and Walker, J., experiments on synthesis of substances related to the sterols. Part XVI. 4-Keto-7-*m*-methoxy-phenylheptoic acid and some derivatives, 68.

Ling, A. R., obituary notice of, 1748.

Linnett, J. W., and Thompson, H. W., force constants and molecular structure. Part IV. Ethylene and tetrachloroethylene. Part VI. Compounds containing the cyanide link, 1393, 1399.

Linnett, J. W. See also Thompson, H. W.

Linstead, R. P., Millidge, A. F., Thomas, S. L. S., and Walpole, A. L., dehydrogenation. Part I. The catalytic dehydrogenation of hydronaphthalenes with and without an angular methyl group, 1140.

Linstead, R. P., Millidge, A. F., and Walpole, A. L., fused carbon rings. Part XIII. Synthesis of derivatives of decalin containing an angular methyl group, 1140.

Linstead, R. P., and Noble, E. G., phthalocyanines. Part XII. Experiments on the preparation of tetrabenzoporphyrins, 933.

Linstead, R. P., Noble, E. G., and Wright, J. M., phthalocyanines. Part IX. Derivatives of thiophen, thionaphthen, pyridine, and pyrazine, and a note on the nomenclature, 911.

Linstead, R. P., and Wang, A. B.-L., the coupling of diazonium salts with derivatives of cyclic β -ketonic acids, 807.

Linstead, R. P., Wang, A. B.-L., Williams, J. H., and Errington, K. D., fused carbon rings. Part XII. A simple synthesis of derivatives of decalin from cyclohexanone, and observations on cyclohexanospirobutyrolactone and allied compounds, 1136.

- Linstead, R. P. See also Cook, A. H., Gaubert, P., Kon, G. A. R., Newitt, D. M., and Sapero, R. H.
- Lister, M. W. See Hammick, D. L.
- Livingston, A., and Loudon, J. D., the action of sulphates on 1:5-dichloro-2:4-dinitrobenzene, 246.
- Llewellyn, F. J., Cox, E. G., and Goodwin, T. H., crystalline structure of the sugars. Part IV. Pentaerythritol and the hydroxyl bond, 883.
- Lockhart, (Miss) D., and Turner, E. E., aryloxy-derivatives of pyrimidines, quinoxalines, and quinolines, 424.
- Lord, R. C., jun., and Teller, E., structure of benzene. Part X. Intensities of the Raman lines in benzene and hexadeuterobenzene, 1728.
- Loudon, J. D., preparation of camphor-10-dichloro-arsine from camphor-10-sulphinic acid, 391.
- Loudon, J. D., and Robson, T. D., mobility of groups in certain nitrodiphenylsulphones, 242.
- Loudon, J. D. See also Gibson, D. T., and Livingston, A.
- Lowe, A. See Batty, J. W.
- Lowry, T. M., obituary notice of, 701.
- Lowry, T. M., and Baldwin, W. C. G., rotatory dispersion of organic compounds. Part XXX. Campholic aldehyde, 233.
- Lowry, T. M., and Seddon, R. V., properties of the oxides of nitrogen. Part VI. Flame propagation in the system nitric anhydride-ozone, 1461.
- Ludlam, E. B. See Smith, W.
- Lugg, J. W. H., Macbeth, A. K., and Winzor, F. L., colouring matters of *Drosera Whittakeri*. Part V. Constitution of droserone, 1597.

M.

- Macbeth, A. K., and Price, J. R., action of bases on nitrophenylhydrazines. Part II., 982.
- Macbeth, A. K. See also Berry, P. A., Cooke, R. G., Gallus, H. P., and Lugg, J. W. H.
- McClement, C. S., and Smiles, S., rearrangement of *ortho*-hydroxy-sulphones. Part VI., 1016.
- McCombie, H. See Cusa, N. W.
- Macdonald, J. Y., temperature coefficient of the thermal decomposition of silver oxalate, 273.
- McGookin, A., Reed, F. P., and Robertson, A., rottlerin. Part I., 748.
- McGowan, J. C. See Baker, W.
- McIlwain, H., the phenazine series. Part V. Reactions of 1:2:3:4-tetrahydrophenazine and related compounds. Part VI. Reactions of alkylphenazonium salts; the phenazyls, 1701, 1704.
- McLean, J., and Wilson, F. J., thiazole and thiadiazine formation from thiosemicarbazones, 556.
- McLeish, (Miss) N., and Campbell, N., structure of naphthalene, hydrindene, and tetralin derivatives, 1103.
- McNaught, K. J. See Robertson, P. W.
- MacNulty, B. J. See Hughes, E. D.
- Macpherson, H. T., and Percival, E. G. V., investigations on configuration of carbohydrates by conductivity measurements in boric acid solution, 1920.
- McQuillin, F. J. See Adamson, P. S., and Du Feu, E. C.
- Madgin, W. M. See Burnham, W. R.
- Madinaveitia, J., alkaloids of *Arundo donax*, L., 1927.
- Madinaveitia, J. See also Jacob, (Miss) A.
- Maitland, P. See France, H.
- Malkin, T., El Shurbagy, M. R., and Meara, M. L., an X-ray and thermal examination of the glycerides. Part III. *aa'*-Diglycerides, 1409.
- Mann, F. G., and Chaplin, E. J., polarity of the co-ordinate link. Part II. Influence of aromatic substitution on the stability of the phosphinimines, 527.

- Mann, F. G., Wells, A. F., and Purdie, D., constitution of complex metallic salts. Part VI. Constitution of the phosphine and arsine derivatives of silver and aurous halides; configuration of the co-ordinated argentous and aurous complex, 1828.
- Marler, (Miss) E. E. J., and Turner, E. E., orientation effects in the diphenyl series. Part XIII. Nitration of the four 2-halogeno-4:4'-dimethyl-diphenyls, 266.
- Marriott, J. A. See Hunter, L.
- Marsden, E. See Hodgson, H. H.
- Marsden, R. J. B., preparation of diphenyl-*p*-tolylamine and phenyldi-*p*-tolylamine, 627.
- Marsh, A. E. L. See Goodeve, C. F.
- Marsh, J. K., preparation of ytterbous sulphate and its elimination from lutecium sulphate, 1367.
- Marshall, P. G., hydroxyanthraquinones. Part II. 1:2:5:6- and 1:4:5:8-tetrahydroxyanthraquinones, 254.
- Martin, W. F. See Barger, G.
- Masson, I., and Race, E., direct conversion of iodic acid and aromatic hydrocarbons into iodonium compounds, 1718.
- Masterman, S. See Cowdrey, W. A., and Hughes, E. D.
- Matignon, C., obituary notice of, 705.
- Maxted, E. B., and Evans, H. C., catalytic toxicity and chemical structure. Part I. Relative toxicity of sulphur compounds in catalytic hydrogenation. Part II. The influence of chain length in the alkyl sulphide and thiol series, 603, 1004.
- Maxwell, M., obituary notice of, 1750.
- Meara, M. L. See Malkin, T.
- Metcalfe, T. P. See Clemo, G. R.
- Michaelis, R. See Schönberg, A.
- Mičović, V. M., and Robinson, R., constitution of brazilein, 43.
- Miley, H. A., and Evans, U. R., passivity of metals. Part VIII. Rate of growth of oxide films on iron, 1295.
- Millidge, A. F. See Linstead, R. P.
- Mills, W. H., and Kelham, R. M., optical activity dependent on restricted rotation in a benzene derivative, 274.
- Mitchell, J. A., relative reactivities of the aliphatic iodides; interaction of alkyl iodides with sodium guaiacoxide in ethyl-alcoholic solution, 1792.
- Mitchell, W. See Barger, G.
- Moffet, G. L. See Heilbron, I. M.
- Moggridge, R. C. G., and Plant, S. G. P., structural problems in the indole group. Part II., 1125.
- Moignard, L. A. See Chapman, D. L.
- Morgan, (Sir) G. T., and Burstall, F. H., researches on residual affinity and co-ordination. Part XXXVII. Complex metallic salts containing 2:6-di-2'-pyridylpyridine (2:2':2''-tripyridyl), 1649.
- Morgan, (Sir) G. T., and Griffith, C. F., formaldehyde condensations with aliphatic ketones. Part II. Methyl ethyl ketone, 841.
- Morgan, W. McG. See Clemo, G. R.
- Morrison, T. J. See Ross, J. D. M.
- Moulds, L. de V. See Carter, A. H.
- Mowat, E. L. R. See Abraham, E. P.
- Muhammad, S. M. M. See Ali, A.
- Murray, (Miss) A. R., and Taylor, T. W. J., the *aa'*-dicyclohexylsuccinic acids, 1450.

N.

- Nadkarni, D. R. See Saiyad, I. Z.
- Nadkarni, S. M., Warriar, A. M., and Wheeler, T. S., chalkones: reactivity of some aryl alkoxyethyl ketones and their dihalides, 1798.

- Nagelschmidt, G.**, a new calcium silicophosphate, 865.
- Nanney, (Miss) P.** See **Bottomley, A. C.**
- Napper, S. S.**, obituary notice of, 1330.
- Narang, K. S., Ray, J. N., and Roy, B. S.**, rottlerin. Part I., 1862.
- Newitt, D. M., Linstead, R. P., Sapiro, R. H., and Boorman, E. J.**, liquid-phase reactions at high pressures. Part I. Hydrolysis of esters, and the Knoevenagel reaction, 876.
- Newitt, D. M., and Schmidt, W. G.**, oxidation of propane. Part II. Products of the slow oxidation at high pressures, 1665.
- Newitt, D. M., and Thornes, L. S.**, oxidation of propane. Part I. Products of the slow oxidation at atmospheric and at reduced pressures. Part III. Kinetics of the oxidation, 1656, 1669.
- Newitt, D. M.** See also **Sapiro, R. H.**
- Nieuwland, J. A.**, obituary notice of, 708.
- Noble, E. G.** See **Linstead, R. P.**
- O.**
- Occleshaw, V. J.**, reaction between aqueous silver nitrate and cuprous thiocyanate; an indirect argentometric method for the determination of copper and a "spot" test for silver, 1438.
- Oeser, E. A.** See **Lasnitzki, A.**
- Openshaw, H. T., and Robinson, R.**, strychnine and brucine. Part XXXVI. Preliminary synthetical experiments, 941.
- Orr, W. J. C., and Butler, J. A. V.**, kinetic and thermodynamic activity of protons and deuterons in water-deuterium oxide solutions, 330.
- P.**
- Page, J. E.** See **Baker, J. W.**
- Paget, H.**, the liquid acids of sapucainha oil, 955.
- Paneth, F. A.**, study of transmutation in the chemical laboratory, 642.
- Partington, J. R.** See **Cowley, E. G.**
- Partridge, S. M.** See **Kenyon, J.**
- Pasupati, V.** See **Chakravarti, S. N.**
- Paternò, E.**, obituary notice of, 181.
- Patterson, T. S., and Holmes, (Miss) G. M.**, influence of solvents and other factors on the rotation of optically active compounds. Part XXXV. Attractive power and solvent effect on rotation, 1403.
- Patterson, T. S., and Lambertson, A. H.**, "green" ethyl tartrate, 963.
influence of solvents and other factors on the rotation of optically active compounds. Part XXXVI. Asymmetric solvent action, 1453.
- Patterson, W. H.**, estimation of deuterium oxide-water mixtures, 1745.
- Paul, G. W.** See **Robertson, P. W.**
- Peacock, D. H., and Gwan, Y. S.**, polyamines. Part III. The preparation of unsymmetrical amines of the types $\text{NHR}\cdot\text{C}_2\text{H}_4\cdot\text{NH}\cdot\text{C}_2\text{H}_4\cdot\text{NH}_2$ and $\text{NH}_2\cdot\text{C}_2\text{H}_4\cdot\text{NH}\cdot\text{C}_2\text{H}_4\cdot\text{NH}_2$, and the action of ammonia on di-*p*-toluenesulphonylbis-(β -chloroethyl)ethylenediamine, 1468.
- Peacock, D. H., and Tha, P.**, benzylation of aromatic amines. Part V. Reactions between *o*-, *m*-, and *p*-cyanobenzyl chlorides and aniline, ethylaniline, and dimethylaniline, 955.
- Peak, D. A., and Robinson, R.**, experiments on the synthesis of substances related to the sterols. Part XVIII., 1581.
- Pearman, F. H.** See **Drew, H. D. K.**
- Pearson, T. G.** See **Anderson, J. S., and Glazebrook, H. H.**
- Peat, S.** See **Bywater, R. A. S., Cutler, W. O., and Haworth, W. N.**
- Percival, E. E., and Percival, E. G. V.**, sugar osazones and their anhydrides, 1320.
- Percival, E. G. V., and Somerville, J. C.**, the acetylation and methylation of agar-agar and the isolation of 2:4:6-trimethyl α -*D*-galactose by hydrolysis, 1615.
- Percival, E. G. V.** See also **Macpherson, H. T., and Percival, E. E.**
- Perkin, W. H., jun., Pollard, A., and Robinson, R.**, experiments on the synthesis of brazilin and hæmatoxylin. Part IV. Synthesis of *O*-diethylene-hæmatoxylyne, 49.
- Peters, A. T.** See **Rowe, F. M.**
- Petrow, V. A.**, steroids and related compounds. Part I. Isomeric cholestenediols, 1077.
- Phillips, H.** See **Gerrard, W., and Kenyon, J.**
- Pike, H. V.** See **Garner, W. E.**
- Plant, S. G. P.** See **Blount, B. K., and Moggridge, R. C. G.**
- Polanyi, M.**, the transition state in chemical reactions, 629.
- Pollard, A.** See **Perkin, W. H., jun.**
- Powell, H. M., and Tasker, H. S.**, the valency angle of bivalent lead: the crystal structure of ammonium, rubidium, and potassium pentabromodiplumbites, 119.
- Powell, H. M.** See also **Burawoy, A.**
- Pratt, N. H.** See **Drew, H. D. K.**
- Price, J. R., and Robinson, R.**, nitrogenous anthocyanins. Part IV. The colouring matter of *Bougainvillæa glabra*, 449.
- Price, J. R.** See also **Macbeth, A. K.**
- Prideaux, E. B. R., and Coleman, R. N.**, combination of fatty acids with nitrogen bases. Part II. Piperidine and lower fatty acids: conductivities and viscosities of liquid anhydrous salts. Part III. Molecular weight, surface tensions, viscosities, and conductivities in benzene of the system: piperidine-propionic acid, 4, 462.
- Prideaux, E. B. R., and Webb, K. R.**, the acid fluorides of the alkali metals. Part I. Acid fluorides of rubidium, 1.
- Prideaux, E. B. R.** See also **Coleman, R. N.**
- Pritchard, R. R.** See **Bradfield, A. E.**
- Pugh, W.**, complex fluorides of gallium and the alkali metals, 1046.
mercurous perchlorate as a volumetric reagent for chlorides and bromides, 1824.
gallium. Part V., 1959.
- Pugh, W.** See also **Sebba, F.**
- Purcell, R. H., and Zahoorbux, F. D.**, kinetics of the decomposition of carbonyl selenide on an allotropic selenium surface, 1029.
- Purcell, R. H.** See also **Anderson, J. S.**
- Purdie, D.** See **Mann, F. G.**
- R.**
- Race, E.** See **Masson, I.**
- Raistrick, H., Robinson, R., and Todd, A. R.**, chemistry of *Aspergillus* colouring matters. Part I., 80.
- Ramage, G. R., and Simonsen, J. L.**, the caryophyllenes. Part V. Structure of homocaryophyllenic acid, 73.
- Ramage, G. R.** See also **Lewis, J. R.**
- Ramsden, F. V.**, obituary notice of, 1750.
- Rao, B. S.**, morellin, a constituent of the seeds of *Garcinia morella*, 853.
- Rao, B. S., and Subramaniam, K.**, β -asarone, 1338.

- Rao, H. K. S., and Wheeler, T. S., amidines. Part II. Diamidines from di-imidochlorides derived from diamines, 1643.
- Raper, R. See Clemo, G. R.
- Rawlings, A. A. See Challenger, F.
- Ray, J. N. See Narang, K. S.
- Read, J., and Swann, G., researches in the menthone series. Part XIV. *dl*-1-Hydroxymenthone, *dl*-menthane-1:3-diols, and *dl*- Δ^8 -neomenthen-3-ol, 237.
researches in the carvone series. Part IV. Optically active carvotanacetols and carvotan-acetylamines, 239.
- Reed, F. P. See McGookin, A.
- Resuggan, J. See Lin, K. H.
- Rhys, J. A. See Roberts, K. C.
- Richards, G. O. See Hinkel, L. E.
- Richards, P. A. E., obituary notice of, 709.
- Richardson, D. H., influence of substituents on the coupling of phenols with diazonium salts, 1363.
- Richardson, F. D. See Goodeve, C. F.
- Ritchie, T., Robinson, R., and Seijo, E., synthetic experiments in the chelidonine-sanguinarine group of the alkaloids. Part I., 835.
- Richter, D., and Blaschko, H., an oxidation product of adrenaline, 601.
- Ricketts, J. See Briggs, L. H.
- Rideal, E. K. See Gee, G.
- Riley, H. L. See Carter, A. H.
- Rintoul, W., obituary notice of, 183.
- Ritchie, M., the photosynthesis of hydrogen chloride in oxygen-rich mixtures: the quantum efficiency of water formation, 857.
- Ritchie, M. See also Smith, W.
- Ritchie, W. H. See Kenner, J.
- Roberts, A. M. See Roger, R.
- Roberts, K. C., and Rhys, J. A., rearrangement of *o*-aminodiphenyl ethers. Part V., 39.
- Robertson, A., and Rusby, G. L., sumatrol. Part I., 497.
- Robertson, A., and Subramaniam, T. S., experiments on the synthesis of rotenone and its derivatives. Part XI. Tetrahydrotubanol, 278.
constituents of *Zanthoxylum Americanum* (Mill). Part III. Constitution of xanthoxyletin. Part V. Structure of *alloxanthoxyletin*, 286, 1545.
- Robertson, A. See also Bell, (Miss) J. C., Bridge, W., Curd, F. H., George, S. W., Howell, W. N., and McGookin, A.
- Robertson, G. J., and Gall, D., 2:5-dimethyl xylofuranose and 2:3-dimethyl xylose, 1600.
- Robertson, J. M., and Woodward, I., X-ray study of the phthalocyanines. Part III. Quantitative structure determination of nickel phthalocyanine, 219.
- Robertson, P. W., Clare, N. T., McNaught, K. J., and Paul, G. W., kinetics of bromine addition to olefinic compounds, 335.
- Robinson, (Mrs.) A. M. See Cook, J. W.
- Robinson, (Mrs.) G. M., leucoanthocyanins. Part III. Formation of cyanidin chloride from a constituent of the gum of *Butea frondosa*, 1157.
- Robinson, R., and Smith, L. H., oxidation of cyclohexanone and suberone by means of Caro's acid, 371.
- Robinson, R., and Walker, J., experiments on the synthesis of substances related to the sterols. Part XV. Part XVII. 8-Methylhydrindan-1-one, 60, 1160.
- Robinson, R. See also Adamson, P. S., Ainley, A. D., Appel, H., Baker, W., Barger, G., Du Feu, E. C., Goldsworthy, L. J., Lin, K. H., Mićović, V. M., Openshaw, H. T., Peak, D. A., Perkin, W. H., jun., Price, J. R., Raistrick, H., and Richardson, T.
- Robinson, R. A., and Davies, C. W., conductivity of univalent electrolytes in water, 574.
- Robson, T. D. See Loudon, J. D.
- Roger, R., studies in stereochemical structure. Part VIII. Stereochemical relationship of the α - and the β -forms of substituted hydrobenzoin. (a) Ethylhydrobenzoin (α -form), 1048.
- Roger, R., and Roberts, A. M., dehydration of *r*-2-phenyl-1-*o*-, *m*-, and *p*-tolyl-1-ethylethylene glycols (α -forms), 1753.
- Rosenheim, O., and Starling, W. W., action of selenium dioxide on sterols and bile acids. Part III. Cholesterol, 377.
- Ross, J. D. M., Morrison, T. J., and Johnstone, C., acid salts of monobasic organic acids. Part III., 608.
- Rothstein, E., influence of poles and polar linkings on tautomerism in the simple three-carbon system. Part IV. Activation by sulphonyl groups. Part V. Course of prototropic change in the bis-sulphonyl-propenes, 309, 317.
- Rowe, F. M., Adams, D. A. W., Peters, A. T., and Gillam, A. E., reaction of certain diazosulphonates derived from β -naphthol-1-sulphonic acid. Part XVII. Conversion of nitro-3-aryl- and nitro-3-aryl-4-methylphthalaz-1-ones into corresponding phthalaz-4-ones by migration of the nitroaryl group, and related reactions, 90.
- Roy, B. S. See Narang, K. S.
- Rule, H. G., and Chambers, A. R., studies in solvent action. Part XIII. Optical rotatory power and the refractive index of the medium, 145.
- Rule, H. G., and Crawford, James, studies in solvent action. Part XII. Optical rotatory powers of *l*-benzoin and *l*-benzoin methyl ether in solution, 138.
- Rule, H. G., and Smith, F. R., synthesis of meso-benzanthrones and anthanthrones by the Ullmann method, 1096.
- Rule, H. G., and Thompson, S. B., acenaphthenone and acenaphthenequinone, 1761.
bromo- and nitro-derivatives of naphthalic acid, 1764.
- Rule, H. G. See also Grieve, J. L.
- Rusby, G. L. See Robertson, A.
- Russell, A., and Todd, J., constitution of tannins. Part V. Synthesis of some flavpinacols, 421.
- Ryder, S. E. A. See Friend, J. N.
- Rydon, H. N., studies in the resin acid series. Part I. Synthesis of Vocke's unsaturated acid, C₁₀N₁₄O₄, 257.
resolution of *cis*- and *trans*-norcaryophyllenic acid, 1340.
- Rydon, H. N. See also Gaubert, P.

S.

- Saiyad, I. Z., Nadkarni, D. R., and Wheeler, T. S., chalkones; condensation of aromatic aldehydes with resacetophenone, 1737.
- Sapiro, R. H., Linstead, R. P., and Newitt, D. M., liquid-phase reactions at high pressures. Part II. Polymerisation of olefins, 1784.
- Sapiro, R. H. See also Newitt, D. M.
- Sanders, P. R., obituary notice of, 711.
- Sayce, L. A., kinetics of the reaction between oxygen and sulphur. Part II. Frigescient oxidation of sulphur, 744.
- Schmidt, W. G. See Newitt, D. M.
- Schönberg, A., and Michaelis, R., autoxidation phenomena and valency tautomerism in the indone series, 109.
formation of nitrones by the action of aromatic nitroso-compounds on methylene ketones, 627.

- Scott, A. D. See Cowdrey, W. A., and Hughes, E. D.
- Sebba, F., and Pugh, W., gallium. Part II. Extraction of gallium and germanium from germanite. Part III. Electrodeposition, purification, and dissolution of gallium, 1371, 1373.
- Seddon, R. V. See Lowry, T. M.
- Seijo, E. See Richardson, T.
- Shah, R. C. See Heeramanek, V. R.
- Shapiro, U. G. See Hughes, E. D.
- Sharp, T. M., mercuration of *O*-trimethylgallaldehyde and related substances, 852.
- Shaw, B. D., preparation of 1:5-dioximes from pyridine bases, 300.
- Shearing, E. A., and Smiles, S., derivatives of *o*-hydroxybenzylsulphonic acid, 1348.
dehydrodi-2-hydroxy-1-naphthylmethane, 1931.
- Sherrill, (Miss) M. L., and Smith, J. C., hydration of acetylenes. Part I. $\Delta^{9:10}$ -Undecynoic acid (undecolic acid), 1501.
- Shoppee, C. W. See Burton, H.
- Short, W. F., and Stromberg, H., totarol. Part I, 516.
- Short, W. F. See also Barger, G., Higginbottom, (Miss) A., Hill, P., and Jackson, R. W.
- Shorter, A. J. See Cox, E. G.
- Sidgwick, N. V., presidential address, 694.
- Simons, C. See Kon, G. A. R.
- Simonsen, J. L. See Adamson, P. S., Bradfield, A. E., Lewis, J. R., and Ramage, G. R.
- Simpson, J. C. E., constituents of senega root. Part I. α -Spinasterol, 730.
- Simpson, J. C. E., and Williams, N. E., ether-soluble constituents of sarsaparilla root. Part I, 733.
- Simpson, N. M. See Baker, W.
- Smiles, S. See Evans, W. J., McClement, C. S., and Shearing, E. A.
- Smith, A. E. C., obituary notice of, 184.
- Smith, E. W. See Hodgson, H. H.
- Smith, F. See Haworth, W. N.
- Smith, F. R. See Rule, H. G.
- Smith, G. F., and Smith, (Miss) M. C., heats of activation in the mutarotation of glucose. Part II. Catalysis by water, acids, and bases, 1413.
- Smith, G. S., volumetric determination of semicarbazide and aminoguanidine, 1325.
co-ordination compounds of semicarbazide, phenyl-semicarbazide, *m*-tolylsemicarbazide, and aminoguanidine, 1354.
- Smith, J. C. See Abraham, E. P., and Sherrill, (Miss) M. L.
- Smith, L. H. See Barger, G., and Robinson, R.
- Smith, (Miss) M. C. See Smith, G. F.
- Smith, R. See Hodgson, H. H.
- Smith, S., and Timmis, G. M., alkaloids of ergot. Part VIII. New alkaloids of ergot: ergosine and ergosimine, 396.
- Smith, W., Ritchie, M., and Ludlam, E. B., photo-expansion of bromine, 1680.
- Solomon, W. See Henry, T. A.
- Somerville, J. C. See Percival, E. G. V.
- Sommerville, D., obituary notice of, 1331.
- Spence, R., and Wild, W., photo-decomposition of gaseous acetone, 352.
- Spring, F. S., and Vickerstaff, T., resinols. Part IV. Structure of α -amyrenol, 249.
- Spring, F. S. See also Beynon, J. H., Heilbron, I. M., and Jones, E. R. H.
- Squire, G. V. V., and Allmand, A. J., photochemical union of hydrogen and chlorine. Part V. Reaction at low pressures; effect of light intensity in the absence of oxygen, 1869.
- Squire, G. V. V. See also Craggs, H. C.
- Starling, W. W. See Rosenheim, O.
- Statham, F. S. See Kenner, J.
- Staveley, L. A. K., and Hinshelwood, C. N., reaction chains in the decomposition of organic compounds, 1568.
- Steiner, (Miss) D. See Freundlich, H.
- Stephens, M. E., obituary notice of, 1332.
- Stevens, T. S., and Hems, B. A., reactions of α -amino-ketones, 856.
- Stiller, E. T., hydrolysis of azlactones with alcoholic potassium hydroxide, 473.
- Stiller, E. T. See also King, H.
- Storrie, F. R., preparation of 2:4-dinitrobenzotrile and 2:4-dinitrobenzoic acid, 1746.
- Stoves, J. L. See Burton, H.
- Stromberg, H. See Hill, P., and Short, W. F.
- Subramaniam, K. See Rao, B. S.
- Subramaniam, T. S. See Robertson, A.
- Sugden, S. See Groves, L. G.
- Swann, G. See Read, J.
- Swanson, T. B. See Berry, P. A.
- Synge, R. L. M. See Bell, D. J.

T.

- Tasker, H. S. See Powell, H. M.
- Taylor, G. T. See Bailey, K. C.
- Taylor, (Miss) M., and Willcox, V. R., transference of water. Part III. Its dependence on concentration in the electrolysis of barium chloride solutions, 902.
- Taylor, T. W. J. See Jenkins, G. I., and Murray, (Miss) A. R.
- Taylor, W., action of phosphorus pentahalides on acetophenone, 304.
displacement of bromine from mono- and dibromoethylbenzenes, 343.
mechanism of hydrolysis and alcoholysis of alkyl halides: the reaction of methyl, ethyl, and *tert*.-butyl bromides with aqueous ethyl alcohol, 992.
reaction of *tert*.-butyl chloride with formic acid: *tert*.-butyl formate, 1852.
direct evidence in support of a bimolecular mechanism for the hydrolysis of *tert*.-alkyl halides: the hydrolysis of *tert*.-butyl bromide in acetone, 1853.
measurement of olefin formation from certain alkyl bromides: mechanisms of the substitution and the olefin reactions with alkyl halides, 1962.
- Teed, F. L., obituary notice of, 1751.
- Teller, E. See Lord, R. C., *jun*.
- Terrey, H. See Butement, F. D. S.
- Tha, P. See Peacock, D. H.
- Thomas, O. See Hinkel, L. E.
- Thomas, S. L. S. See Linstead, R. P.
- Thompson, H. W., and Linnett, J. W., spectrum and molecular structure of carbon suboxide, and evidence for hybrid links, 1291.
force constants and molecular structure. Part II. Ethylene. Part III. Molecules containing C=O and C=C linkages. Part V. Relation between force constant and bond length, 1376, 1384, 1396.
- Thompson, H. W. See also Linnett, J. W.
- Thompson, S. B. See Rule, H. G.
- Thomson, G., solvent effect in dielectric polarisation. Parts I and II., 1051.
- Thornes, L. S. See Newitt, D. M.
- Thorpe, W. V., and Williams, R. T., glucovanillin and a colour reaction for vanillin, 494.
- Threlfall, (Sir) R., obituary notice of, 186.
- Timmis, G. M. See Smith, S.
- Todd, A. R., and Bergel, F., aneurin. Part VII. Synthesis of aneurin, 364.

Todd, A. R., Bergel, F., Karimullah, and Keller, R., thioformylation of amines, 361.
 Todd, A. R. See also Bergel, F., Hems, B. A., and Raistrick, H.
 Todd, J. See Russell, A.
 Topps, J. E. C. See Lawson, A.
 Townend, D. T. A. See Kane, G. P.
 Travers, M. W., composition of the mixture of rare gases from the hot springs of Bath, 1561.
 Tress, H. J. See Drew, H. D. K.
 Tucker, S. H. See France, H.
 Turner, E. E. See Bennett, G. M., Cook, D. E., Jamison, (Miss) M. M., Lockhart, (Miss) D., and Marler, (Miss) E. E. J.
 Tyson, J. T. See Fordham, S.

U.

Urban, G. See Aston, F. W.
 Urushibara, Y. See Barger, G.

V.

Vickerstaff, T. See Spring, F. S.
 Vine, H. See Le Fèvre, R. J. W.
 Vogel, A. I. See German, W. L.

W.

Wain, R. L. See Kenner, J.
 Wainwright, W. G. See Lewis, J. R.
 Wali, M. A. See Hunter, R. F.
 Walker, J. See Lin, K. H., and Robinson, R.
 Walker, O. J., and Wild, G. L. E., thermal and photochemical decomposition of acetyl peroxide, 1132.
 Walpole, A. L. See Linstead, R. P.
 Walton, H. F., and Wolfenden, J. H., electrolytic separation factor of deuterium at very low concentrations, 1677.
 Wang, A. B. L. See Linstead, R. P.
 Ward, A. M. See Godward, L. W. N.
 Wardlaw, W. See Cox, E. G.
 Warren, F. L., dipole moments and molecular structure; dipole moments of *p*-hydroxyazobenzene and its derivatives compared with those of phenol and its derivatives, 1858.
 Warren, F. L. See also Cohen, A.
 Warriar, A. M. See Nadkarni, S. M.

Waters, W. A., decomposition reactions of the aromatic diazo-compounds. Part I. Evidence for non-ionic reaction. Part II. Some reactions of benzenediazonium chloride. Part III. Some non-ionic reactions of diazobenzenehydroxide, 113, 2007, 2014.
 Watson, H. B. See Dippy, J. F. J., Edwards, E. G., and Evans, D. P.
 Way, W. J. R. See Cox, E. G.
 Webb, K. R. See Prideaux, E. B. R.
 Welford, G. See Britton, H. T. S.
 Wells, A. F. See Mann, F. G.
 Wheeler, T. S. See Nadkarni, S. M., Rao, H. K. S., and Saiyad, I. Z.
 Wild, G. L. E. See Walker, O. J.
 Wild, W. See Spence, R.
 Wiles, A. E. See Hill, P.
 Willcox, V. R. See Taylor, (Miss) M.
 Williams, J. H. See Linstead, R. P.
 Williams, N. E. See Simpson, J. C. E.
 Williams, R. T., derivatives of hydroxymethoxysuccinic acids, and some related amides, 1517.
 Williams, R. T. See also Thorpe, W. V.
 Williamson, S. See Bell, D. J.
 Willis, J. A. V. See Francis, F.
 Wilson, F. J. See McLean, J.
 Wilson, W. J. See Haworth, W. N.
 Winzor, F. L. See Lugg, J. W. H.
 Wolf, L., obituary notice of, 1751.
 Wolfenden, J. H. See Walton, H. F.
 Wood, C. E. See Harris, T. L.
 Woodward, I. See Robertson, J. M.
 Woolf, S. S., chemical kinetics of the interaction of the alkyl iodides with sodium eugenoxide in ethyl alcohol, 1172.
 Woolvin, C. S. See Haworth, W. N.
 Work, T. S. See Barger, G.
 Wren, H., and Crawford, John, optically active alkylsuccinic acids. Part I. Resolution of *r*-ethylsuccinic acid into its optical antipodes, 230.
 Wren, H., and Haller, J. W. E., optically active alkylsuccinic acids. Part II. Stereochemical configuration of the symmetrical diethylsuccinic acids, 230.
 Wright, J. M. See Linstead, R. P.

Y.

Young, S., obituary notice of, 1332.

Z.

Zahoorbux, F. D. See Purcell, R. H.