

INDEX OF AUTHORS, 1944.

A.

- Abrams, J. T.** See **Kipping, F. S.**
- Addison, C. C.**, properties of freshly formed surfaces. Part II. Rate of adsorption of *isoamyl* alcohol at the air-water surface. Part III. Mechanism of adsorption, with reference to the *sec.-octyl* alcohol-water system, 252, 477.
- Amiley, A. D., Davies, W. H., Gudgeon, H., Harland, J. C., and Sexton, W. A.**, constitution of the so-called carbothialdines and preparation of some homologous compounds, 147.
- Albert, A., and Magrath, D.**, benzylamine-4-carboxylic acid, 678.
- Anker, R. M., and Cook, A. H.**, quinoxaline cyanines. Part IV. Halogenated styryl derivatives, 489.
- Arcus, C. L.**, mechanism of the reaction of (-)phenylalkyl-carbinols with hydrogen bromide, 236.
- Arnold, M. H. M., and Scaife, C. W.**, 5-(*p*-aminobenzene-sulphonamido)thiazole, 103.
- Ashley, J. N., and Harris, J. O.**, purification of colchicine by chromatography, 677.
- Atherton, D., and Hilditch, T. P.**, union of gaseous oxygen with methyl oleate at 20° and 120°, 105.

B.

- Baddar, F. G., and Gindy, M.**, 3 : 4-benzfluorenones. Part I. Effect of groups on their formation and their fission with alkali, 450.
- Baddar, F. G.** See also **Mikhail, H.**
- Baddely, G.**, isomerisation of aromatic ketones with aluminium chloride, 232.
- action of aluminium chloride on phenyl ethers, 330.
- Baddiley, J., Kenner, G. W., Lythgoe, B., and Todd, A. R.**, experiments on synthesis of purine nucleosides. Part X. Synthesis of 9-*d*-ribopyranosidoadenine, 657.
- Baddiley, J., Lythgoe, B., and Todd, A. R.**, experiments on synthesis of purine nucleosides. Part VI. Synthesis of 9-*d*-xylosido-2-methyladenine and of 6-*d*-xylosidamino-2-methylpurine, 318.
- Baddiley, J., and Topham, A.**, 5-nitro-4 : 6-diamino-2-methyl-pyrimidine and preparation of chloropyrimidines, 678.
- Baker, J. W.**, *a*-methylenic reactivity in olefinic systems. Part I. The Prins reaction with propylene, 296.
- Barber, H. J., and Slack, R.**, preparation of stilbene derivatives. Part III., 612.
- Barclay, (Miss) M. G., Burawoy, A., and Thomson, G. H.**, new method of nuclear methylation of aromatic amines, 109. method of nuclear methylation of phenolic substances, 400.
- Barker, G. R., Cooke, (Miss) K. R., and Gulland, J. M.**, *D*-ribobenzimidazole, 339.
- Barnett, J.**, analogues of pantothenic acid. Part III. Preparation of growth-inhibiting analogues related to *N*-pantoyltaurine, 5.
- Barnett, J., Dupré, D. J., Holloway, B. J., and Robinson, F. A.**, analogues of pantothenic acid. Part IV. Aryl derivatives of pantoyltaurine, 94.
- Barton, D. H. R., and Jones, E. R. H.**, optical rotatory power and structure in triterpenoid compounds; application of method of molecular rotation differences, 659.
- Bateman, L., and Koch, H. P.**, structure of polyisoprenes. Part III. Ultra-violet absorption spectra, 600.
- Bateman, L. C., Hughes, E. D., and Ingold, C. K.**, molecular compounds between amines and sulphur dioxide; Jander's theory of ionic reactions in sulphur dioxide, 243.
- Beard, H. G., and Hodgson, H. H.**, preparation of *p*-aminobenzaldehyde, and mechanism of the reactions of sodium polysulphides with *p*-nitrotoluene, 4.
- Bedson, P. P.**, obituary notice of, 40.

YY

- Bell, D. J.**, analysis of mixtures of 2 : 3 : 4 : 6-tetramethyl glucose with 2 : 3 : 6-trimethyl and dimethyl glucoses by partition on a silica-water column; small-scale method for investigating the structures of glucopolysaccharides, 473.
- Bergel, F., Haworth, J. W., Morrison, A. L., and Rinderknecht, H.**, synthetic analgesics. Part I. Synthesis of basic benzofuran derivatives and certain 4-phenylpiperidine compounds, 261.
- Bergel, F., Hindley, N. C., Morrison, A. L., and Rinderknecht, H.**, synthetic analgesics. Part IV. Synthesis of 3-substituted piperidines and pyrrolidines, 269.
- Bergel, F., Morrison, A. L., Moss, A. R., and Rinderknecht, H.**, antibacterial substance from *Aspergillus clavatus*, 415.
- Bergel, F., Morrison, A. L., and Rinderknecht, H.**, synthetic analgesics. Part II. Synthesis of pethidine and similar compounds. Part III. Action of hydrogen halides on ethers of *aa*-bis-(β -hydroxyethyl)phenylacetonitrile, 265, 267.
- Birch, A. J.**, new reagent for primary and secondary aliphatic amines, 314.
- reduction by dissolving metals. Part I., 430.
- Birch, A. J., and Robinson, (Sir) R.**, direct introduction of angular methyl groups, 501.
- experiments on synthesis of substances related to sterols. Part XLIII., 503.
- Birtwell, S.** See **Hodgson, H. H.**
- Bloomfield, G. F.**, rubber, polyisoprenes, and allied compounds. Part VI. Mechanism of halogen-substitution reactions, and additive halogenation of rubber and of dihydromyrcene, 114.
- Bloomfield, G. F., and Jeffrey, G. A.**, rubber, polyisoprenes, and allied compounds. Part VII. Action of nitric oxide thereon, 120.
- Booth, E., Burnop, V. C. E., and Jones, W. E.**, synthesis of *a*-amino-acids. Part I. *dl*-Methionine, 666.
- Bourne, E. J., and Wiggins, L. F.**, constitution of trimethylene sorbitol, 517.
- Braude, E. A.**, kinetics of anionotropic rearrangement. Part II. Medium effects in oxotropy of propenylethynyl-carbinol; determination of isodielectric energies of activation, 443.
- Braude, E. A., and Jones, E. R. H.**, kinetics of anionotropic rearrangement. Part I. Rearrangement of propenylethynyl-carbinol, 436.
- Breyer, B., Buchanan, G. S., and Duewell, H.**, reduction potentials of acridines, with reference to antiseptic activity, 360.
- Brothers, H. E.**, obituary notice of, 562.
- Brown, J. G. T., Rose, J. D., and Simonsen, J. L.**, 3-chloro-1-*a*-chlorovinyl- Δ^3 -cyclohexene, and 1 : 5-dichloro- $\Delta^{1:5}$ -cyclooctadiene, 101.
- Buchanan, G. L., Cook, J. W., and Loudon, J. D.**, colchicine and related compounds. Part IV. Synthesis of 2 : 3 : 4 : 5-, 2 : 3 : 4 : 6-, and 2 : 3 : 4 : 7-tetramethoxy-9-methylphenanthrenes, 325.
- Buchanan, G. S.** See **Breyer, B.**
- Buleraig, W. R.** See **Dawson, H. M.**
- Burawoy, A.** See **Barclay, (Miss) M. G.**
- Burnop, V. C. E.** See **Booth, E.**

C.

- Carrington, H. C.**, action of phosphorus pentasulphide on barbituric acids, 124.
- Cartwright, N. J., and Haworth, R. D.**, constituents of natural phenolic resins. Part XIX. Oxidation of ferulic acid, 535.
- Chattaway, F. D.**, obituary notice of, 202.

Clemo, G. R., and **Swan, G. A.**, some basically substituted derivatives of benziminazole and lupinane, 274.
Coates, G. E., and **Coates, J. E.**, studies on hydrogen cyanide. Part XIII. Dielectric constant of anhydrous hydrogen cyanide, 77.
Coates, J. E.. See **Coates, G. E.**
Cohen, A.. See **Cook, J. W.**
Connolly, E. E., triacetone dialcohol and its dehydration products, 338.
Cook, A. H., and **Majer, J. R.**, pyrrole trimethincyanines, 482.
 preparation of indole trimethincyanines, 486.
 extension of the Ehrlich reaction, 488.
Cook, A. H.. See also **Anker, R. M.**
Cook, J. W., and **Graham, W.**, condensation of chrysene with succinic anhydride, 329.
Cook, J. W., **Graham, W.**, **Cohen, A.**, **Lapsley, R. W.**, and **Lawrence, C. A.**, colchicine and related compounds. Part III., 322.
Cook, J. W., **McGinnis, (Miss) N. A.**, and **Mitchell, S.**, hydroanthracenes and hydrophenanthrenes. Part II., 286.
Cook, J. W., and **Paige, M. F. C.**, sterols of *Calycanthus floridus*, 336.
Cook, J. W., and **Preston, R. W. G.**, polycyclic aromatic hydrocarbons. Part XXIX. Derivatives of 1:2:5:6-dibenzfluorene, 553.
Cook, J. W.. See also **Buchanan, G. L.**
Cooke, (Miss) K. R.. See **Barker, G. R.**
Cymerman, J., **Heilbron, I. M.**, **Johnson, A. W.**, and **Jones, E. R. H.**, studies in the polyene series. Part XV. Condensation of carbonyl compounds with propenylethylnylcarbinol and hex-3-en-5-yn-2-ol, 141.
Cymerman, J., **Heilbron, I. M.**, and **Jones, E. R. H.**, studies in the polyene series. Part XVI. Condensation of $\alpha\beta$ -unsaturated ketones with 1-hexyne, 144.

D.

Dalgliesh, C. E., β -thymoxyethyl diethylamine, 677.
Davey, I., and **Dippy, J. F. J.**, strengths of six monocarboxylic acids in 25% aqueous acetone and 20% aqueous sucrose, 411.
Davies, D. G., obituary notice of, 562.
Davies, W. C., and **Mann, F. G.**, the stereochemistry of organic derivatives of phosphorus. Part I. Synthesis of acidic and basic dissymmetric tertiary phosphines; optical resolution of phenyl-*p*-(carboxymethoxy)phenyl-*n*-butylphosphine sulphide, 276.
Davies, W. H., and **Rogers, M. A. T.**, 2:4-diarylpyrroles. Part IV. Formation of acylated 5-amino-2:4-diphenylpyrroles from β -benzoyl- α -phenylpropionitrile and notes on the Leuckart reaction, 126.
Davies, W. H., and **Sexton, W. A.**, reactions of benzthiazole derivatives. Part IV. 1-Thiocyanobenzthiazole, 11.
Davies, W. H.. See also **Ainley, A. D.**
Dawson, H. M., **Bulcraig, W. R.**, and **Smith, G. F.**, elimination of bromide ion from aqueous solutions of phenylbromoacetic acid, 90.
Dawson, I. M.. See **Mitchell, S.**
Denham, H. G., obituary notice of, 41.
Dewar, J., and **Fort, G.**, sugar nitrates. Part I. Syntheses of 2:4-dimethyl β -methylglucoside and 2:4:6-trimethyl- β -methylglucoside. Part II. Synthesis of 3:4-dimethyl glucose; 3-methyl β -methylglucoside, 492, 496.
Dewar, J., **Fort, G.**, and **McArthur, N.**, sugar nitrates. Part III. 2:4-Dimethyl β -methylglucoside and 3:4-dimethyl β -methylglucoside from β -methylglucoside 2:3:4:6-tetrานитрат, 499.
Dewar, M. J. S., derivatives of diphenylguanidine, 534.
 attempts to find new antimalarials. Parts XXI. and XXII., 615, 619.
Dibben, H. E.. See **Fletcher, W. E.**
Dippy, J. F. J.. See **Davey, I.**
Dresel, (Miss) E., and **Hinshelwood, C. N.**, kinetics of sulphonation of aromatic compounds by sulphur trioxide, 649.
Duewell, H.. See **Breyer, B.**
Dupré, D. J.. See **Barnett, J.**

E.

Elks, J., **Elliott, D. F.**, and **Hems, B. A.**, studies in the indole series. Part I. Attempted preparation of tryptophan from tricyclic compounds. Part II. Attempted synthesis of tryptophan from substituted malonic esters. Part III. Improved synthesis of tryptophan. Part IV. Sulphonamides derived from indole, 624, 626, 629, 632.

Elliott, D. F.. See **Elks, J.**

Emeléus, H. J., and **Maddock, A. G.**, derivatives of monosilane. Part III. The fluoromonosilanes, 293.

Emeléus, H. J., and **Wilkins, C. J.**, ethyl and phenyl silicon fluorides, 454.

Evans, D. P., influence of alkyl groups upon reaction velocities in solution. Part V. Formation of phenyltrialkylammonium iodides in methyl alcohol, 422.

Ewen, E. S., **Gillam, A. E.**, and **Spring, F. S.**, triterpene resins and related acids. Part XV. Dehydration of α -amyrin and α -amyradienol with phosphoric oxide; *l*- α -amyradiene and *l*- α -amyratriene, 28.

Ewins, A. J., chemotherapy in tropical medicine, 351.

F.

Farrar, W. V., and **Gulland, J. M.**, azoxysulphones, their preparation and properties, with observations on structure of diazotates, 368.

Fletcher, W. E., **Gulland, J. M.**, and **Jordan, D. O.**, constitution of yeast ribonucleic acid. Part VIII. Electrometric titration of the acid groups, 33.

Fletcher, W. E., **Gulland, J. M.**, **Jordan, D. O.**, and **Dibben, H. E.**, constitution of yeast ribonucleic acid. Part VII. Diffusion coefficients and molecular weights, 30.

Ford, J. S., obituary notice of, 562.

Fort, G.. See **Dewar, J.**

G.

Gagnon, P. E., **Gaudry, R.**, and **King, F. E.**, synthesis of amino-acids from substituted cyanoacetic esters, 13.

Gaudry, R.. See **Gagnon, P. E.**

Gerrard, W., experiments on interaction of hydroxy-compounds and phosphorus and thionyl halides in the absence and in the presence of tertiary bases. Part I. Optically active β -octanol, ethyl mandelate, and phenylmethylcarbinol, 85.

Ghosh, R., and **Robinson, (Sir) R.**, synthesis of substances possibly obtainable as degradation products of thebaïne, 506.

Gibling, T. W., molecular volume and structure. Parts VII. and VIII., 380.

Gidvani, B. S., constitution of shellac; increased yield of aleuritic acid, 306.

Gillam, A. E., and **West, T. F.**, absorption spectra and structure of pyrethrins I and II. Part II., 49.

Gillam, A. E.. See also **Ewen, E. S.**

Gindy, M.. See **Baddar, F. G.**

Gluckauf, E., **Heal, H. G.**, **Martin, G. R.**, and **Paneth, F. A.**, method for continuous measurement of the local concentration of atmospheric ozone, 1.

Goodson, J. A., *Delphinium* alkaloids. Part II. Ajacine. Part III. Delpheline, 108, 665.

Govrin, J. H., iron derivatives of heterocyclic acids. Part I. Ferric complexes of chelidamic acid, 25.

Graham, W.. See **Cook, J. W.**

Green, J., **Mower, N.**, **Picard, C. W.**, and **Spring, F. S.**, triterpene resins and related acids. Part XVII. (A) Conversion of β -amyradienyl acetate into *allo*- β -amyrrenonyl acetate. (B) Conversion of β -amyrin into *iso*- β -amyradienol, 527.

Green, J.. See also **Mower, N.**

Gudgeon, H.. See **Ainley, A. D.**

Gulland, J. M., some aspects of the chemistry of nucleotides, 208.

Gulland, J. M.. See also **Barker, G. R.**, **Farrar, W. V.**, and **Fletcher, W. E.**

H.

- Harington, C. R.**, newer knowledge of the biochemistry of the thyroid gland, 193.
- Harland, J. C.** See **Ainley, A. D.**
- Harris, G. P.** See **Thompson, H. W.**
- Harris, J. O.** See **Ashley, J. N.**
- Hathway, D. E.** See **Hodgson, H. H.**
- Hawkins, E. G. E.**, and **Hunter, R. F.**, vitamin-A aldehyde (axerophthal), 411.
- Haworth, J. W.** See **Bergel, F.**
- Haworth, R. C.** See **Mann, F. G.**
- Haworth, R. D.**, and **Sykes, W. O.**, preparation of some amino-pyridoquinolines and their quaternary salts, 311.
- Haworth, R. D.** See also **Cartwright, N. J.**
- Haworth, W. N.**, **Heath, R. L.**, and **Wiggins, L. F.**, 1 : 6-diamino-2 : 3 : 4 : 5-dimethylene mannitol, 155.
- Haworth, W. N.**, **Heslop, (Miss) D.**, **Salt, (Miss) E.**, and **Smith, F.**, lactones of mannosaccharic acid. Part I. 2 : 5-Dimethyl Δ^4 -mannosaccharo-3 : 6-lactone 1-methyl ester, an analogue of ascorbic acid, 217.
- Haworth, W. N.**, and **Jones, W. G. M.**, derivatives of glucosaccharic acid, 65. conversion of sucrose into furan compounds. Part I. 5-Hydroxymethylfurfuraldehyde and some derivatives, 667.
- Haworth, W. N.**, **Jones, W. G. M.**, **Stacey, M.**, and **Wiggins, L. F.**, epimerisation of dimethylene saccharic acids and their derivatives, 61.
- Haworth, W. N.**, and **Wiggins, L. F.**, dibenzoates of sorbitol and mannitol and their methylene derivatives, 58.
- Heal, H. G.** See **Gluckauf, E.**
- Heath, R. L.** See **Haworth, W. N.**
- Heilbron, I. M.**, **Jones, E. R. H.**, and **McCombie, J. T.**, studies in the polyene series. Part XII. Ethynylecarbinols from sorbaldehyde and octatrienal; poly-carbon anionotropic rearrangements, 134.
- Heilbron, I. M.**, **Jones, E. R. H.**, and **Raphael, R. A.**, studies in the polyene series. Part XIII. Acetylengyl glycols from polyene aldehydes and their rearrangement with acids, 136.
- Heilbron, I. M.**, **Jones, E. R. H.**, and **Weedon, B. C. L.**, studies in the polyene series. Part XIV. Anionotropic rearrangements of carbinols obtained from condensation of crotonaldehyde with both vinyl- and 2:methylvinyl-acetylene, 140.
- Heilbron, I. M.** See also **Cyberman, J.**
- Hems, B. A.** See **Elks, J.**
- Henderson, G. G.**, obituary notice of, 202.
- Heslop, (Miss) D.**, **Salt, (Miss) E.**, and **Smith, F.**, synthesis of bismethylamides of 2-hydroxy-3-methoxy-d- and l-erythrosuccinic acid, 225.
- Heslop, (Miss) D.**, and **Smith, F.**, lactones of mannosaccharic acid. Part II. Synthesis of 2 : 3 : 5-trimethyl mannosaccharide diamide. Part III. Isomerisation of mannosaccharodilactone with alkali, 574, 577.
- lactones of glucosaccharic acid. Part IV. Enol of 5-keto-4-deoxyglucosaccharo-3 : 6-lactone, an analogue of ascorbic acid, 637.
- Heslop, (Miss) D.** See also **Haworth, W. N.**
- Hey, D. H.**, **Nicholls, R. J.**, and **Pritchett, C. W.**, 2-methyl-mesobenzanthrone and some derivatives, 97.
- Hilditch, T. P.** See **Atherton, D.**
- Hindley, N. C.** See **Bergel, F.**
- Hinkel, L. E.**, **Watkins, T. I.**, and **Jones, K. M.**, studies on hydrogen cyanide. Part XIV. Formamidodichloride, 647.
- Hinselwood, C. N.** See **Dresel, (Miss) E.**, and **Wadsworth, K. D.**
- Hodgson, H. H.**, and **Birtwell, S.**, monoreduction of 1 : 3-dinitronaphthalene and separation of 3-nitro-1-naphthylamine and 4-nitro-2-naphthylamine, 75.
- diazotisation of 1-amino-2-hydroxy-4-cyanonaphthalene and preparation of 4-cyano-2-naphthol, 539.
- Hodgson, H. H.**, **Birtwell, S.**, and **Marsden, E.**, action of cuprous oxide on diazotised amines. Part III. Action in sulphuric acid-glacial acetic acid, 112.
- Hodgson, H. H.**, **Birtwell, S.**, and **Walker, J.**, interpretation of the Sandmeyer reaction. Part IV. Catalysed decomposition of diazonium cations by anionoid complexes with reference to those of cobalt and ferric iron, 18.
- Hodgson, H. H.**, and **Hathway, D. E.**, reactions of 3-nitro-1-naphthylamine, including anil formation, bromination, and preparation of 1 : 2 : 3 : 4-tetrabromonaphthalene, 21.
- separation of 3-nitro-1-naphthylamine and 4-nitro-2-naphthylamine by maleic anhydride, and monobromination of 4-nitro-2-naphthylamine, 385.
- preparation of halogenonaphthylamines, dihalogenonaphthalenes, 2-bromo-1-naphthol, and related derivatives, 538.
- preparation of 1 : 2 : 3-trinitronaphthalene, 561.
- Hodgson, H. H.**, and **Marsden, E.**, replacement of the diazonium by the nitro-group; method based on decomposition of the aryl diazonium cobaltinitrites, 22.
- evidence for *isonitrile* and *nitrile* structures of Hantzsch's aryl *syn*- and *anti*-diazocyanides, 395.
- preparation and diazotisation of *p*-aminomonomethylaniline, 398.
- Hodgson, H. H.**, **Nicholson, D. E.**, and **Turner, G.**, decomposition of the diazonium salts of 4-nitro-1-naphthylamine by sodium sulphite and sodium acetate; preparation of 4 : 4'-dinitro-1 : 1'-azonaphthalene, 15.
- Hodgson, H. H.**, and **Sibbald, D. D. R.**, interpretation of the Sandmeyer reaction. Part V. Comparative behaviour of cuprous, cupric, and ferric chlorides as catalysts, 393.
- Hodgson, H. H.**, and **Turner, H. S.**, preparation of 6-nitro-1-naphthol, decomposition of diazonaphthols, and new reactions of nitronaphthols, 8.
- decomposition of diazotised 1 : 6-dinitro-2-naphthylamine by precipitated copper in organic solvents, 10.
- Hodgson, H. H.**, and **Whitehurst, J. S.**, preparation of *m*-nitrobenzenesulphonyl chloride, 482.
- Hodgson, H. H.** See also **Beard, H. G.**
- Holloway, B. J.** See **Barnett, J.**
- Hook, W. H.**, and **Robinson, (Sir) R.**, long-chain acids containing a quaternary carbon atom. Part III, 152.
- Howard, G. A.**, **Lythgoe, B.**, and **Todd, A. R.**, experiments on synthesis of purine nucleosides. Part VII. Synthesis of pyrimidines from esters and malondiamidine, 476.
- Hu, M.** See **Wang, S.**
- Hughes, E. D.** See **Bateman, L. C.**
- Hunter, R. F.** See **Hawkins, E. G. E.**

I.

- Ingold, C. K.** See **Bateman, L. C.**
- Iredale, T.**, and **Lyons, L. E.**, influence of inert gases on photodecomposition of gaseous acetone, 588.
- Ismail, A. F. A.** See **Schönberg, A.**

J.

- Jeffrey, G. A.** See **Bloomfield, G. F.**
- Johnson, A. W.** See **Cyberman, J.**
- Jones, B.**, and **Speakman, J. C.**, thermodynamic dissociation constants of hydroxy- and alkoxy-benzoic acids, 19.
- Jones, E. R. H.** See **Barton, D. H. R.**, **Cyberman, J.**, and **Heilbron, I. M.**
- Jones, J. K. N.**, separation of methylated methylglycosides by adsorption on alumina; end-group determinations in methylated polysaccharides, 333.
- Jones, K. M.** See **Hinkel, L. E.**
- Jones, W. E.** See **Booth, E.**
- Jones, W. G. M.**, and **Wiggins, L. F.**, synthesis of dimethyl dimethylene *l*-idosaccharate, 363.
- structure of monomethylene *d*-glucosaccharolactone, 364.
- Jones, W. G. M.** See also **Haworth, W. N.**
- Jordan, D. O.** See **Fletcher, W. E.**

K.

- Kenner, G. W.**, **Lythgoe, B.**, and **Todd, A. R.**, experiments on synthesis of purine nucleosides. Part IX. Synthesis of 9-*d*-xylopyranosidoadenine, 652.
- Kenner, G. W.** See also **Baddiley, J.**
- King, F. E.** See **Gagnon, P. E.**

Kipping, F. S., and **Abrams, J. T.,** organic derivatives of silicon. Part LI. Bisdihydroxytetraphenylethane orthosilicate, 81.

Koch, H. P. See **Bateman, L.**

Kronberger, H., and **Weiss, J.,** formation and structure of organic molecular compounds. Part III. Dielectric polarisation of solid crystalline molecular compounds, 464.

L.

Lapsley, R. W. See **Cook, J. W.**

Latif, A., and **Soliman, G.,** syntheses in the naphthalene series. Part III. 1-Hydroxy-2:3-benzfluorene and 4-hydroxy-2-methyl-5:6-benzcoumaran, 56.

Latif, A. See also **Soliman, G.**

Lauder, A. obituary notice of, 42.

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

Loudon, J. D. See **Buchanan, G. L.**

Lyons, L. E. See **Iredale, T.**

Lythgoe, B., and **Todd, A. R.,** experiments on synthesis of purine nucleosides. Part VIII. Determination of lactol ring structures of purine glycosides by periodate oxidation, 592.

Lythgoe, B., Todd, A. R., and **Topham, A.,** experiments on synthesis of purine nucleosides. Part V. Coupling of pyrimidine derivatives with diazonium salts, 315.

Lythgoe, B. See also **Baddiley, J., Howard, G. A.,** and **Kenner, G. W.**

M.

McArthur, N. See **Dewar, J.**

McClelland, E. W., obituary notice of, 43.

McCombie, H., Saunders, B. C., and **Wild, F.,** preparation of nitroethane, 24.

McCombie, J. T. See **Heilbron, I. M.**

McGinnis, (Miss) N. A. See **Cook, J. W.**

Maddock, A. G. See **Emeléus, H. J.**

Magrath, D. See **Albert, A.**

Majer, J. R. See **Cook, A. H.**

Mann, F. G., and **Haworth, R. C.,** condensation products of 1:2-disubstituted 3-nitrosoindoles; new type of cyanine dye, 670.

Mann, F. G., and **Porter, J. W. G.,** preparation, resolution, and optical properties of 2-amino-n-octane, 456.

Mann, F. G. See also **Davies, W. C.**

Marsden, E. See **Hodgson, H. H.**

Martin, G. R. See **Gluckauf, E.**

Mikhail, H., and **Baddar, F. G.,** magnetic susceptibility of organic compounds. Part I. Constitution of the *p*-benzoquinone, quinol, and quinhydrone system, 590.

Mills, W. H., old and new views on some chemical problems, 340.

Mitchell, S., and **Dawson, I. M.,** asymmetric photolysis of β -chloro- β -nitroso- $\alpha\delta$ -diphenylbutane with circularly polarised light, 452.

Mitchell, S. See also **Cook, J. W.**

Mitchell, W., alkaloids of *Duboisia leichhardtii*, 480.

Moody, G. T., obituary notice of, 358.

Morley, H. F., obituary notice of, 43.

Morrison, A. L. See **Bergel, F.**

Moss, A. R. See **Bergel, F.**

Moubasher, R. See **Schönberg, A.**

Mower, N., Green, J., and **Spring, F. S.,** triterpene resins and related acids. Part XVI. A major oxidation product of the β -amyrin group, 256.

Moyer, N. See also **Green, J.**

Murfitt, H. C., and **Roberts, J. C.,** reaction between amines and unsaturated compounds containing halogen attached to one of the ethylenic carbon atoms. Part III. Influence of a *gem*-dimethyl group, 371.

Mustafa, A. See **Schönberg, A.**

N.

Newbold, G. T., and **Spring, F. S.,** isolation of euphol and α -euphorbol from euphorbium, 249.

triterpene resins and related acids. Part XVIII. Conversion of β -amyratrienyl acetate into β -amyradiendionyl acetate, 532.

Nicholls, R. J. See **Hey, D. H.**
Nicholson, D. E. See **Hodgson, H. H.**

P.

Paige, M. F. C. See **Cook, J. W.**

Paneth, F. A. See **Gluckauf, E.**

Picard, C. W. See **Green, J.**

Porter, J. W. G. See **Mann, F. G.**

Preston, R. W. G. See **Cook, J. W.**

Prideaux, E. B. R., diffusion potentials and mobilities of multivalent ions; potassium ferricyanide and ferrocyanide, 606.

Pritchett, C. W. See **Hey, D. H.**

Pyman, F. L., obituary notice of, 563.

R.

Rao, (Mrs.) P. A., and **Smith, F.,** 3:6-anhydrogalactose. Part II. 2-Methyl and 4-methyl 3:6-anhydro- α -methylgalactopyranoside, 229.

Raphael, R. A. See **Heilbron, I. M.**

Rapson, W. S., Saunders, D. H., and **Stewart, E. T.,** application of the conditions of the Tiemann-Reimer reaction to benzaldehyde, 74.

Rapson, W. S., Schwartz, (Miss) H. M., and **Stewart, E. T.,** benzocyclooctatetraenes. Part V. Absorption spectra of tetraphenylene and 1:2:3:4:5:6-tribenz- $\Delta^{1:3:5:7}$ -cyclooctatetraene in relation to their structures, 73.

Rapson, W. S. See also **Shuttleworth, R. G.**

Ratner, L. G. See **Simons, C.**

Read, A. A. obituary notice of, 206.

Reed, R. A., hydroacridones; synthesis and dehydrogenation, 425.

conversion of acridones into acridines, 679.

Reynolds, W. C., obituary notice of, 46.

Rinderknecht, H. See **Bergel, F.**

Roberts, J. C. See **Murfitt, H. C.**

Robinson, F. A. See **Barnett, J.**

Robinson, (Sir) R. See **Birch, A. J., Ghosh, R.,** and **Hook, W. H.**

Rogers, M. A. T. See **Davies, W. H.**

Rose, J. D. See **Brown, J. G. T.**

Ruhemann, S., obituary notice of, 46.

S.

Salt, (Miss) E. See **Haworth, W. N.,** and **Heslop, (Miss) D.**
Sanders, J. M., obituary notice of, 207.

Saunders, D. H. See **Rapson, W. S.**

Saunders, B. C. See **McCombie, H.**

Scaife, C. W. See **Arnold, M. H. M.**

Schönberg, A., and **Ismail, A. F. A.,** easy method for preparation of dianthraquinone; action of pyridine on dianthrone and dianthrone, 307.

Schönberg, A., and **Moubasher, R.,** studies on indene derivatives. Part III. Constitution and reactions of bis-hydroxyindone; photochemical reduction of triketohydridene, 366.

cleavage of ethers of the anisole type by Grignard mixtures; action of Grignard solutions on α -bromo-ketones, 462.

Schönberg, A., and **Mustafa, A.,** photo-reactions. Part VII. Reactions in sunlight involving rupture of the ethane linkage, dehydrogenation effected by quinone and benzophenone derivatives, addition reactions between ketones and methanes. Part VIII. Reaction of ethylenes with phenanthraquinone, 67, 387.

pyrolysis of xanthopinacol and related compounds, 305.

Schwartz, (Miss) H. M. See **Rapson, W. S.**

Senter, G., obituary notice of, 359.

Sexton, W. A. See **Ainley, A. D.,** and **Davies, W. H.**

Sheridan, J., metal-catalysed reaction between acetylene and hydrogen. Part I. Nickel catalysts, 373.

Shuttleworth, R. G., Rapson, W. S., and **Stewart, E. T.,** benzocyclooctatetraenes. Part IV. 1:2:3:4:5:6-Tribenz- $\Delta^{1:3:5:7}$ -cyclooctatetraene, 71.

Sibbald, D. D. R. See **Hodgson, H. H.**

- S**imons, C., and Ratner, L. G., formation of azo-compounds from *o*-nitrothiophenol and its methyl ether, 421.
Simonsen, J. L. See Brown, J. G. T.
Simpson, J. C. E., triterpene group. Part XI. Non-saponifiable matter of *Lactucarium germanicum*, 283.
Slack, R. See Barber, H. J.
Smith, F., lactones of glucosaccharic acid. Part I. 2 : 5-Dimethyl Δ^5 -glucosaccharo-3 : 6-lactone 1-methyl ester, an analogue of ascorbic acid. Part II. 2 : 3 : 5- and 2 : 4 : 5-Trimethyl glucosaccharolactone. Part III. Mono- and di-lactones, 510, 571, 633. glucurone, 584.
Smith, F., Stacey, M., and Wilson, P. I., synthesis of uronic acids. Part II. 2 : 3 : 4-Trimethyl derivatives of man-nuronic, glucuronic, and galacturonic acids, 131.
Smith, F. See also Haworth, W. N., Heslop, (Miss) D., and Rao, (Mrs.) P. A.
Smith, G. F., laboratory timing clock, 113.
Smith, G. F. See also Dawson, H. M.
Soliman, G., and Latif, A., syntheses in the naphthalene series. Part II. 3-Hydroxy-2-alkyl-1 : 4-naphthaquinones, 55.
Soliman, G., and West, R. W., syntheses in the naphthalene series. Part I. 1 : 3-Dihydroxynaphthalenes, 53.
Soliman, G. See also Latif, A.
Speakman, J. C. See Jones, B.
Spring, F. S., and Young, E. P. H., sulphanilamide derivatives, 248.
Spring, F. S. See also Ewen, E. S., Green, J., Mower, N., and Newbold, G. T.
Stacey, M., derivatives of chondrosamine, 272.
Stacey, M., and Wilson, P. I., synthesis of uronic acids. Part III. *d*-Mannuronic acid, 587.
Stacey, M. See also Haworth, W. N., and Smith, F.
Stallard, G., obituary notice of, 571.
Stephenson, (Miss) E. F. M., preparation of 1-aminophthalaz-4-one, 678.
Stewart, E. T. See Rapson, W. S., and Shuttleworth, R. G.
Stock, J. T., reduction of quinaldinic acid at the dropping-mercury cathode, 427.
Stoddart, E. M., kinetics of the reaction between chlorine and nitric oxide, 388.
Sutton, D. A., course of autoxidation reactions in polyisoprenes and allied compounds. Part VIII. Photo-oxidation of methyl elaidate, 242. geranylamine, 306.
Swain, G., Todd, A. R., and Waring, W. S., synthesis of unsaturated γ -lactones, 548.
Swan, G. A. See Clemo, G. R.
Sykes, W. O. See Haworth, R. D.
- T.**
Thompson, H. W., scope and limitations of infra-red measurements in chemistry, 183.
Thompson, H. W., and Harris, G. P., spectroscopic evidence for the N-H-N bond in ethyleneimine, 301.
- Thompson, H. W., and Torkington, P.**, infra-red spectrum of phenylacetylene, 595.
 vibrational spectra of acrylonitrile and perbunan, 597.
Thompson, H. W. See also Torkington, P.
Thomson, G., steric inhibition of resonance. Part I. Dichloronitrobenzenes. Part II. *m*-Xylidines and *N*-dimethyl-*m*-xylidines, 404, 408.
Thomson, G. H. See Barclay, (Miss) M. G.
Todd, A. R. See Badiley, J., Howard, G. A., Kenner, G. W., Lythgoe, B., and Swain, G.
Topham, A. See Badiley, J., and Lythgoe, B.
Torkington, P., and Thompson, H. W., vibrational spectra of the vinyl halides, 303.
Torkington, P. See also Thompson, H. W.
Turner, G. See Hodgson, H. H.
Turner, H. S. See Hodgson, H. H.

W.

- Wadsworth, K. D., and Hinshelwood, C. N.**, kinetics of aromatic sulphonation reactions; sulphonation of *p*-nitrotoluene and of chlorobenzene by sulphur trioxide, 469.
Walker, J. See Hodgson, H. H.
Wang, S., and Hu, M., the constitution of belmacamgenin and belmacamdin, 307.
Waring, W. S. See Swain, G.
Watkins, T. I. See Hinkel, L. E.
Weedon, B. C. L. See Heilbron, I. M.
Weil-Malherbe, H., and Weiss, J., photochemistry of fluorescent substances. Part I. Quenching of fluorescence by nitric oxide and photochemical formation of nitroxides, 541.
Weil-Malherbe, H. See also Weiss, J.
Weiss, J., mechanism of ionic reactions in aqueous solutions, 309.
Weiss, J., and Weil-Malherbe, H., photochemistry of fluorescent substances. Part II. Concentration quenching (self-quenching) of fluorescence, 544.
Weiss, J. See also Kronberger, H., and Weil-Malherbe, H.
West, R. W. See Soliman, G.
West, T. F., structure of pyrethrolone and related compounds. Parts I.—III., 51, 239, 643.
West, T. F. See also Gillam, A. E.
Whitehurst, J. S. See Hodgson, H. H.
Wiggins, L. F., conversion of galactose into derivatives of *d*-idose, 522.
Wiggins, L. F. See also Bourne, E. J., Haworth, W. N., and Jones, W. G. M.
Wild, F. See McCombie, H.
Wilkins, C. J. See Emeléus, H. J.
Williams, P., obituary notice of, 48.
Wilson, P. I. See Smith, F., and Stacey, M.
Work, T. S., antiplasmoidal action and chemical constitution. Part VII. Derivatives of quinine and *iso*quinoline, 334.

Y.

- Young, E. P. H.** See Spring, F. S.