

AUTHOR INDEX

INDUSTRIAL AND ENGINEERING CHEMISTRY

VOLUME 29—1937

ABEL, E., AND HALLA, F. Anomalous Behavior of Mortar Coats. . .	330	BROWN, B. E. See Scholl, Walter.	
ADAMS, F. W., AND EDMONDS, R. G. Absorption of Chlorine by Water in Packed Tower.	447	BROWN, E. H. See Curtis, H. A.	
ADAMS, J. R. See Whittaker, C. W.		BROWN, R. H. See Mears, R. B.	
ALTHAUSEN, DARRELL. See Willkie, H. F.		BROWNE, F. L. Proposed System for Classifying House Paints.	1018
AMBROSE, A. M., AND HAAG, H. B. Toxicological Studies of Derris.	429	BROWNE, V. B. Discussion, Chromium and Its Alloys (Correction)	73
ANDERSON, A. P., AND TALLEY, S. K. Wax Precipitation from Propane Solution.	432	BROWNLEE, DAVID. Low-Temperature Carbonization of Bituminous Coal, Latest Developments in Germany and Great Britain.	734
See also Fuchs, G. H. von.		BRUCE, P. L. See Blake, J. T.	
ANDERSON, LYLE. See Lowen, Leslie.		BURK, R. E., BALDWIN, B. G., AND WHITACRE, C. H. Thermal Reactions of Ethylene.	326
ANTHONY, J. K. See Hovorka, Frank.		BUSWELL, A. M. See Boruff, C. S., and Upton, W. V.	
APPEL, F. J., AND ELGIN, J. C. Countercurrent Extraction of Benzoic Acid between Toluene and Water.	451	BYERS, H. G. Selenium in Mexico.	1200
ARONOVSKY, S. I., AND GORTNER, R. A. Cooking Process. X. Pulping Wood with Alcoholic Nitric Acid Solutions.	1431		
ASCHEHOUG, VALBORG. See Lunde, Gulbrand.		CALFEE, R. K. See McHargue, J. S.	
ASNIS, R. E. See Conn, R. C.		CAMERON, F. K. See Macormac, A. R.	
ATKINSON, R. G., BREWER, R. E., AND DAVIS, J. D. Characteristics of Coal Plasticity.	840	CAMPBELL, J. M. See Cramer, P. L.	
AXE, W. N., HENSON, D. D., AND SCHUHARDT, V. T. Germicidal Properties of Nitrogen Bases from Transformer-Oil Extract.	503	CARMODY, W. H. See Sheehan, W. E.	
		CARSWELL, T. S., DOUBLY, J. A., AND NASON, H. K. Bacterial Control in Air Conditioning.	85
BACON, H. E. See Powell, S. T.		AND MORRILL, H. L. Cyclohexylamine and Dicyclohexylamine.	1247
BADGER, W. L. Heat Transfer Coefficients for Condensing Dowtherm Films.	910	CEAGLSKE, N. H., AND HODGEN, O. A. Drying Granular Solids.	805
See also Boarts, R. M., Brooks, C. H., and Ullock, D. S.		CHAMBERS, F. S., JR., AND SHERWOOD, T. K. Absorption of Nitrogen Dioxide by Aqueous Solutions.	1415
BAILEY, C. F., AND PETRE, A. W. Modern Cigaret Industry.	11	CHARLTON, R. W., AND DAY, A. R. Isomerization and Hydration of Pinene.	92
BAKER, E. M., AND MUELLER, A. C. Condensation of Vapors on Horizontal Tube: Temperature Variation around Perimeter of Tube on Condensing Pure and Mixed Vapors, 1065; Heat Transfer Coefficients for Condensation of Mixed Vapors of Immiscible Liquids.	1067	CHILTON, T. H., DUFFEY, H. R., AND VERNON, H. C. Absorption of Gases in Packed Towers.	298
See also Peavy, C. C.		CHRISTENSEN, C. W. See Ralston, A. W.	
BAKER, J. H. See Garard, I. D.		CLAPSON, W. J. Litharge as Accelerator for Chloroprene Plastic Polymer.	789
BAKER, R. H., AND BARKENBUS, CHARLES. Whisky Verdigris Analysis.	755	CLARK, F. M. Nonflammable Dielectric Organic Compounds.	698
BALDWIN, B. G. See Burk, R. E.		CLARK, G. L., AND REYNOLDS, D. H. Chemistry of Zirconium Dioxide. X-Ray Diffraction Studies.	711
BARBER, C. L. Soft Solder Fluxes.	1114	CLARK, K. G. See Reed, D. L.	
BARKENBUS, CHARLES. See Baker, R. H.		CLEWELL, D. H. Drying of Linseed Oil. Electron Diffraction Study.	650
BARNES, P. S. Glass-Lined Steel Equipment.	378	CLEWELL, J. H., AND PAINE, H. W. Pigments, Lakes, and Other Coloring Materials in Plastics.	750
BASS, S. L., AND KAUPPI, T. A. Evaluation of Ethylcellulose by Load-Elongation Curves. Plasticizers.	678	COMSTOCK, C. S., AND DODGE, B. F. Rate of Carbon Dioxide Absorption by Carbonate Solutions in Packed Tower.	520
See also Kauppi, T. A.		CONLEY, J. E. See Davidson, J. M.	
BAXTER, J. G., GRAY, E. LEB., AND TISCHER, A. O. Molecular Distillation. Preparation and Characteristics of Synthetic Constant-Yield Mixtures.	1112	CONN, R. C., AND ASNIS, R. E. Oat Flour as Antioxidant.	951
BAYS, G. S., JR., AND McADAMS, W. H. Heat Transfer Coefficients in Falling Film Heaters.	1240	COOLEY, L. C. Acetone.	1399
BEAVENS, E. A., GORESLINE, H. E., AND NELSON, E. K. Silver in Artificial Aging of Brandies.	623	COPSON, R. L., NEWTON, R. H., AND LINDSAY, J. D. Initial Reaction Rate between Phosphate Rock and Phosphoric Acid.	175
BEESON, K. C. Chemical Reactions in Fertilizer Mixtures. Reactions of Diammonium Phosphate with Limestone and with Dolomite.	705	See also Curtis, H. A.	
AND ROSS, W. H. Chemical Reactions in Fertilizer Mixtures. Decomposition of Dolomite.	1176	CORNETT, W. F. See Seyer, W. F.	
BENCOWITZ, I. Suggested Procedure in Design of Sheet Asphalt.	98	CRAMER, P. L., AND CAMPBELL, J. M. Synthetic Decanes as High-Antiknock Fuels.	234
BENDER, H. L. Structure of Heated Resinous Films.	1130	CRARY, R. W., AND HOLM, M. M. Recovery of Mercaptans from Cracked Naphtha Fractions.	1389
BENNETT, EMMETT. Polyurionide from Tobacco Stalks.	933	CRyder, D. S., AND PORTER, D. J. Ethane Pyrolysis in Presence of Steam.	667
BERGIUS, FRIEDRICH. Conversion of Wood to Carbohydrates and Problems in Industrial Use of Concentrated Hydrochloric Acid.	247	CUPPLES, H. L. Wetting and Spreading Properties of Aqueous Solutions. Mixtures of Sodium Hydroxide with <i>n</i> -Caproic, <i>n</i> -Caprylic, <i>n</i> -Capric, Lauric, Myristic, and Palmitic Acids.	924
BERK, A. A. See Davidson, J. M.		CURME, G. O., JR. Resinous Derivatives of Vinyl Alcohol (Correction).	318
BEWICK, H. L. See Stewart, J. K.		CURRIER, A. J., AND KAGARISE, I. H. Rate of Linseed Oil Oxidation with Driers.	467
BIBBINS, F. E. See Ross, A. A.		CURTIS, H. A., COPSON, R. L., BROWN, E. H., AND POLE, G. R. Fertilizer from Rock Phosphate.	766
BLAKE, J. T., AND BRUCE, P. L. Studies in Vulcanization of Rubber. VII. Unsaturation of Rubber Vulcanized with Nitro Compounds and Benzoyl Peroxide.	866		
BLISS, R. H., AND DODGE, B. F. Vapor-Phase Hydration of Ethylene	19	DALBY, GASTON. See Hoffman, Charles.	
BOARTS, R. M., BADGER, W. L., AND MEISENBURG, S. J. Temperature Drops and Liquid-Film Heat Transfer Coefficients in Vertical Tubes.	912	DARKIS, F. R., DIXON, L. F., WOLF, F. A., AND GROSS, P. M. Flue-Cured Tobacco. Chemical Composition of Flue-Cured Tobaccoes Produced on Limed and Nonlimed Soils under Varying Weather Conditions.	1030
BOCK, L. H. Water-Soluble Cellulose Ethers.	985	DAVIDSON, J. M., BERK, A. A., CONLEY, J. E., AND PARTRIDGE, E. P. Potash from Polyhalite. Relation between Calcination Conditions and Extraction Behavior.	475
BOGIN, CHAS., AND WAMPNER, H. L. Interpretations of Evaporation Data Based on Behavior of Solvents in Lacquer Films.	1012	DAVIS, J. D. See Atkinson, R. G.	
BONER, C. J. Metallic Soaps for Thickening Mineral Oils.	58	DAVIS, R. O. E. See Scholl, Walter.	
BOOTH, H. S., AND BOZARTH, A. R. Laboratory Purification of Gases by Fractional Distillation.	470	DAY, A. R. See Charlton, R. W.	
BORGSMANN, C. W. Initial Corrosion Rate of Mild Steel.	814	DEHN, W. M. See Pearl, I. A.	
BORUFF, C. S., BUSWELL, A. M., AND UPTON, W. V. Adsorption of Fluoride from Salts by Alum Flocc.	1154	DENLOW, R. R. See Brizzolara, A. A.	
See also Willkie, H. F.		DERR, R. B., RIESMEYER, A. H., AND UNANGST, R. B. Removal of Undesirable Constituents from Tobacco Smoke.	771
BOYER, R. L. See Storch, H. H.		DIXON, L. F. See Darkis, F. R.	
BOZARTH, A. R. See Booth, H. S.		DODGE, B. F. Thermodynamic Calculation of Vapor-Phase Hydration of Ethylene (Correspondence).	846
BRADFORD, J. A., HARLOW, E. S., HARLAN, W. R., AND HANMER, H. R. Nature of Cigaret Smoke. Volatile Bases and Acids.	45	AND HUFFMAN, J. R. Calculation of Number of Theoretical Plates for Rectifying Column.	1434
BRADLEY, T. F. Drying Oils and Resins: Mechanism of "Drying" Phenomenon, 440; Influence of Molecular Structure upon Oxygen and Heat Convertibility.	579	AND NEWTON, R. H. Calculation of Pressure Effect on Liquid-Vapor Equilibrium in Binary Systems.	718
KROPA, E. L., AND JOHNSTON, W. B. Drying Oils and Resins. Drying, Nondrying, and Convertibility Characteristics of Maleic and Succinic Glycol Polyesters.	1270	See also Bliss, R. H., and Comstock, C. S.	
BREITMANN, W. M. Investigating Time-Temperature Effects upon Properties of Reactants.	1202	DOLLEY, P. T. Absolute Crystallization Rate of Sodium Sesquicarbonate.	1101
BREWER, J. E. See Gardner, G. S.		DORSCH, J. B. See Stewart, J. K.	
BREWER, R. E. See Atkinson, R. G.		DOSTAL, H., MARK, H., AND RAFF, R. Mechanism of Thermal Polymerization and Polycondensation.	595
BRIZZOLARA, A. A., DENSLow, R. R., AND RUMBEL, S. W. Composition of Zinc Yellow.	656	DOUBLY, J. A. See Carswell, T. S.	
BROOKS, C. H., AND BADGER, W. L. Heat Transfer Coefficients in Boiling Section of Long-Tube, Natural-Circulation Evaporator.	918	DOW, R. B., FENSKE, M. R., AND MORGAN, H. E. Effect of Pressure on Viscosity of Oils and Chlorinated Diphenyls.	1078
		DRAEMEL, F. C. See Sherwood, T. K.	
		DUFFEY, H. R. See Chilton, T. H.	

- EATON, G. L. See Weir, H. M.
EDMONDS, R. G. See Adams, F. W.
EGLOFF, GUSTAV, NELSON, E. F., AND MORRELL, J. C. Motor Fuel from Oil Cracking. Production by Catalytic Water Gas Reaction. 555
See also Thomas, C. L.
EISNER, ABNER. See Fisher, C. H.
ELBE, GUENTHER VON, AND LEVIS, BERNARD. Hydrocarbon Reactions and Knock in Internal Combustion Engine. 551
ELDER, L. W., JR. Staling vs. Rancidity in Roasted Coffee. 267
ELGIN, J. C. See Appel, F. J.
ELYHJEM, C. A. See Pavcek, P. L.
EMBREE, N. D. Molecular Distillation. Theory of Elimination Curve. 975
ETIENNE, A. D. See Schickeltanz, S. T.
- FASH, R. H. Increasing the Effective Life of Razor Blades. 68
FELLERS, C. R., MILLER, JOSEPH, AND ONSDORFF, THOMAS. Dextrose in Manufacture of Fruit and Vegetable Products. 946
FENSKE, M. R. See Dow, R. B., Lawroski, S., Quiggle, D., Tongberg, C. O., and Varteressian, K. A.
FIELD, J. E. See Gehman, S. D.
FIELDING, J. H. Impact Resilience in Testing Channel Black. 880
FISHBEIN, MORRIS. Medical Patents. 1315
FISHER, C. H., AND EISNER, ABNER. Coal Hydrogenation. Primary Liquefaction by Destructive Hydrogenation of Oxygen, Nitrogen, and Sulfur Linkages. 1371
Primary Liquefaction of Coal by Hydrogenation. 939
FLEIGER, A. G. See Piper, J. D.
FLOREZ, LUIS DE. Automatic Control and Chemical Industries. 1210
FOSTER, H. D., AND KEYES, D. B. Catalysts for Vapor-Phase Oxidation of Acetaldehyde. 1254
FRANKE, K. W., AND PAINTER, E. P. Effect of Sulfur Additions on Seleniferous Soils. 591
FRANTA, WILLIAM, LAVINE, IRVIN, AND HARRINGTON, L. C. Development of Dakota Lignite. XII. Preparation and Purification of Phenol-Formaldehyde Resins from Primary Tar Distillate. 1182
FREIHERR, H. F. See Mantius, E.
FUCHS, G. H. VON, AND ANDERSON, A. P. Effect of Solvent Extraction on Aromaticity of Lubricating Oils. 319
FULMER, E. I. See Underkoffler, L. A.
FURNAS, C. C., AND LEIGHTON, W. B. Ethyl Alcohol-Ethyl Acetate and Acetic Acid-Ethyl Acetate Systems. Vapor-Liquid Equilibrium Data. 709
- GADDUM, L. W. See Roberts, J. A.
GARARD, I. D., MINSKY, ABRAHAM, BAKER, J. H., AND PASCALE, VIOLA. Identification of Roquefort Cheese. 1167
GARDNER, G. S., AND BREWER, J. E. Vapor Pressure of Commercial High-Boiling Organic Solvents. 179
GARDNER, H. A. Applications of Metallic Phthalates. 640
GARDNER, W. H. See Payne, H. F.
GARVEY, B. S., JR. Chemistry of Soft Rubber Vulcanization. V. Treatment of Dilute Rubber Cements with Sulfur Chloride. 208
GEHMAN, S. D., AND FIELD, J. E. Colloidal Structure of Rubber in Solution. 793
GENERAUX, R. P. Fluid-Flow Design Methods. (Correction, 584). 385
GERHARDT, G. W. See Young, G. H.
GILL, R. E. See Vernon, A. A.
GILMORE, B. H. Prevention of Calcium Deposits in Process Waters. Relative Value of Sodium Metaphosphate and Pyrophosphate. 584
GILMORE, R. E. See Warren, T. E.
GLOOR, W. E. Durability of Cellulose Mixed-Ester Lacquers. 690
GOLDEN, P. L. See Storch, H. H.
GORESLINE, H. E. See Beavens, E. A.
GORTNER, R. A. See Aronovsky, S. I.
GRANGER, F. S. Condensation of Phenols with Formaldehyde. II. Resinification of Phenol Alcohols, 860; III. Direct Resinification, 1125; IV. Variation of Phenols. 1305
GRANNISS, E. R. Employee Safety through Building Design. 608
GRAY, E. LEB. See Baxter, J. G.
GREBE, J. J. Elements of Automatic Control. 1225
GREENUP, H. W., AND OLCOTT, L. E. Latex Battery Separators. 192
GREGORY, L. B., AND SCHERMANN, W. G. Carbon Dioxide Scrubbing by Amine Solutions. 514
GROGGINS, P. H., AND STIRTON, A. J. Recent Progress in Amination by Ammonolysis. 1353
GROSS, P. M. See Darkis, F. R.
GUILLAUME, ARTHUR. Glycerol. Liberation, Recovery, and Refining. 729
GUNNESS, R. C. Column Performance in Rectification of Petroleum. 1092
- HAAG, H. B. See Ambrose, A. M.
HACHMUTH, K. H. See Katz, D. L.
HALL, G. O., AND SCHWARTZ, CHARLES. Sanitary Value of Sodium Metaphosphate in Dishwashing. 421
HALL, J. A. Slash Pine Oleoresin. 637
HALLA, F. See Abel, E.
HAMILTON, L. A., AND OLCOTT, H. S. Antioxidants and Autoxidation of Fats. VIII. Autoxidation of Oleic Acid, Methyl Oleate, and Oleyl Alcohol. 217
HAMMOND, J. W. See MacIntire, W. H.
HANMER, H. R. See Bradford, J. A.
HANSEN, L. A. See Stamm, A. J.
HARDESTY, J. O., AND ROSS, W. H. Heat Developed in Ammoniation of Superphosphates with Anhydrous Ammonia. 1283
HARDIN, L. J. See MacIntire, W. H.
HARLAN, W. R. See Bradford, J. A.
HARLOW, E. S. See Bradford, J. A.
HARMAN, M. W. Vulcanization Characteristics of Mercaptobenzothiazole Derivatives. 205
HAROLD, J. F. X. Textiles Go Chemical. (Correction, 987). 742
HARRINGTON, L. C. See Franta, William.
HARRISON, R. W. See Lowen, Leslie.
HARVEY, A. W. Shortening Properties of Plastic Fats. 1155
HASS, H. B. Discussion. Symposium on: Are Patents on Medicinal Discoveries and on Foods in Public Interest? 1325
McBEE, E. T., AND HATCH, L. F. Recent Progress in Chlorination
- HATCH, L. F. See Hass, H. B.
HEBERG, C. W. Design of Gas-Cleaning Installations. 406
HENDRICKS, S. B. See Hill, W. L.
HENSON, D. D. See Axe, W. N.
HERRICK, H. T. See Moyer, A. J., and Wells, P. A.
HESS, R. H. See Swope, H. G.
HICKMAN, K. C. D. Molecular Distillation: Apparatus and Methods (Correction, 1384), 968; State of Vitamins in Certain Fish Liver Oils. 1107
HILL, W. L., HENDRICKS, S. B., JEFFERSON, M. E., AND REYNOLDS, D. S. Phosphate Fertilizers by Calcination Process. Composition of Defluorinated Phosphate. 1299
HIRST, L. L. See Storch, H. H.
HITCHCOCK, L. B. Mechanism of Gas-Liquid Reaction. Batch Absorption of Carbon Dioxide by Stirred Alkaline Solutions. 302
HIXSON, A. W., AND LUEDEKE, V. D. Wall Friction in Liquid Agitation Systems. 927
HODGE, W. W. Pollution of Streams by Coal Mine Drainage. Beneficial Effects of Sealing Abandoned Coal Mines. 1048
HOEVEN, H. W., VAN DER. Flammability of Propane-Air Mixtures. 445
HOFFMAN, CHARLES, SCHWETZER, T. R., AND DALBY, GASTON. Control of Rope in Bread. 464
HOLM, M. M. See Crary, R. W.
HOOS, B. G. See Schur, M. O.
HOOVER, J. R., AND KLEIN, H. C. Rubber-Lined Equipment. 394
HOPPER, C. B. See Stewart, J. K.
HOUGH, O. A. See Ceaglske, N. H.
HOVORKA, FRANK, AND ANTHONY, J. K. Electrode Potentials. Relation to Corrosion of Alloys and Metals in Lubricating Oils. 959
HOWARD, P. L. See King, C. V.
HUBBELL, D. S. New Inorganic Cement and Adhesive. 123
HUFFMAN, J. R., AND UREY, H. C. Separation of Oxygen Isotopes by a Fractionating Column. 531
See also Dodge, B. F.
HUNTER, T. G. See Strang, L. C.
HUTCHINSON, M. H., AND SHERWOOD, T. K. Liquid Film in Gas Absorption. 836
- INGMANSON, J. H. See Kemp, A. R.
INMAN, B. N. See Sage, B. H.
IPATIEFF, V. N., AND KOMAREWSKY, V. I. Isooctane Production by Simultaneous Polymerization and Hydrogenation. 958
- JACOB, K. D. See Marshall, H. L., and Whittaker, C. W.
JEFFERSON, M. E. See Hill, W. L.
JESSEN, F. W. Compressibility of Butane-Air Mixtures below One Atmosphere (Correction). 318
JOHNSTON, W. B. See Bradley, T. F.
JOHNSTONE, H. F. Recovery of Sulfur Dioxide from Waste Gases. Effect of Solvent Concentration on Capacity and Steam Requirements of Ammonium Sulfito-Bisulfite Solutions. 1396
AND SINGH, A. D. Recovery of Sulfur Dioxide from Waste Gases. Design of Scrubbers for Large Quantities of Gases. 286
JONES, G. W. See Scott, G. S.
- KAGARISE, I. H. See Currier, A. J.
KALLENBERGER, R. H. See Storch, H. H.
KASEHAGEN, LEO. Action of Aqueous Alkali on Bituminous Coal. 600
KATES, W. A. Commercial-Grade Glass Equipment. 398
KATZ, D. L., AND HACHMUTH, K. H. Vaporization Equilibrium Constants in Crude Oil-Natural Gas System. 1072
KAUPPI, T. A., AND BASS, S. L. Viscosity-Concentration Relations in Ethylcellulose Solutions. (Correction, 987). 800
See also Bass, S. L.
KEENEN, F. G., AND MORGAN, W. A. Rate of Dolomite Reactions in Mixed Fertilizers. 197
KEITH, J. R., AND ROESS, L. C. Molecular Weights of Viscous Petroleum Fractions. 460
KELLY, H. E. See Sheehan, W. E.
KEMP, A. R. Purified Rubber for Electrical Insulation. 643
AND INGMANSON, J. H. High-Speed Vulcanization of Rubber. 782
KERSTEIN, N. A. See Piper, J. D.
KEYES, D. B. See Foster, H. D.
KILLEFFER, D. H. Absorption of Carbon Dioxide. 1293
Drying Oils. 1365
Molecular Distillation. Useful Vacuity. 966
Research Rides the Rails. 1002
Sandpaper Grows Up. 849
See also Martin, J. W.
KIMBALL, C. S. See Snell, F. D.
KING, C. V., AND HOWARD, P. L. Heat Transfer and Diffusion Rates at Solid-Liquid Boundaries. 75
KING, J. G. See Sinnatt, F. S.
KINGSBURY, P. C. Ceramic Linings for Chemical Equipment. 402
KLEIN, H. C. See Hoover, J. R.
KOCH, WILLIAM. Properties and Uses of Ethylcellulose. 687
KOHMAN, E. F., AND SANBORN, N. H. Dehydroascorbic Acid Reductase. 189
Vegetal Reduction of Dehydroascorbic Acid. 1195
KOMAREWSKY, V. I. See Ipatieff, V. N.
KRINGSTAD, HANS. See Lunde, Gulbrand.
KROPA, E. L. See Bradley, T. F.
- LACEY, W. N. See Sage, B. H.
LAVINE, IRVIN. See Franta, William.
LAWROSKI, S., TONGBERG, C. O., MAZZAROLA, A. H., AND FENSKE, M. R. Fractionation of Michigan Straight-Run Naphthas. 674
See also Tongberg, C. O.
LEAVENWORTH, E. W. Lost Monopolies of Names and Things. 1006
LEIGHTON, W. B. See Furnas, C. C.
LEVIS, BERNARD. See Elbe, Guenther von.
LEWIS, W. K., AND SQUIRES, LOMBARD. Evaporation of Mixed Lacquer Solvents. 109
SQUIRES, LOMBARD, AND NUTTING, R. D. Mechanism of Rubber Vulcanization with Sulfur. 1135
LICHTY, L. C., AND PHELPS, C. W. Carbon Monoxide in Engine Exhaust Using Alcohol Blends. 495
LIGORIO, C., AND WOK, L. T. Titanium Dioxide. Precipitation Factors Affecting Pigment Properties. 213
LINDSAY, J. D. See Copson, R. L.

- LITKENHOUS, E. E., AND MANN, C. A. Hydrogenation of Nickel Carbonyl..... 934
- LOCKWOOD, L. B. See Wells, P. A.
- LOWEN, LESLIE, ANDERSON, LYLE, AND HARRISON, R. W. Cereal Flours as Antioxidants for Fishery Products. Halibut Liver and Salmon Oils..... 151
- LOWRY, C. D., JR. No. 74, Berolzheimer Print (Correction)..... 505
- LUEDKE, V. D. See Hixson, A. W.
- LUNDE, GULBRAND, ASCHEHOUG, VALBORG, AND KRINGSTAD, HANS. Fish as Source of Vitamins A and D. Herring, Brisling, and Their Products..... 1171
- LUNDSTROM, F. O., AND WHITTAKER, C. W. Chemical Reactions in Fertilizer Mixtures. Effect of Ammoniation on Urea Component of Superphosphate Mixtures..... 61
- MCADAMS, W. H. See Bays, G. S., Jr.
- MCBEE, E. T. See Hass, H. B.
- MCCORMACK, H. Nitration..... 1333
- MACFARLANE, ANGUS. See Sinnatt, F. S.
- McHARGUE, J. S., AND CALFEE, R. K. Nicotine Thiocyanate. Contact Insecticide..... 1232
- MACINTIRE, W. H., HARDIN, L. J., AND OLDHAM, F. D. Calcium Metaphosphate Fertilizers..... 224
- HARDIN, L. J., OLDHAM, F. D., AND HAMMOND, J. W. Development of P₂O₅ Insolubility in Phosphatic Mixtures. Formation of Fluorapatite as Its Cause..... 758
- McMAHON, J. B. Control of Liquid Level in Vessels under Pressure. MACORMAC, A. R., AND CAMERON, F. K. Pulps from Whole Cotton Plant..... 1219
- 96
- McPHERSON, W. K. See Underkoffler, L. A.
- MAISNER, HERMAN. See Olsen, J. C.
- MANN, C. A. See Litkenhaus, E. E.
- MANTELL, C. L., AND RUBENKONIG, H. L. Manila Resins..... 855
- MANIUS, E., AND FREIHERR, H. F. Lead-Lined Equipment..... 373
- MARBAKER, E. E. See Phelps, S. M.
- MARK, H. See Dostal, H.
- MARKHAM, A. E. Integration of Drying Equation at Constant Temperature..... 641
- MARSH, W. M. See Washington, Lawrence.
- MARSHALL, A. E. Introduction. Equipment Design..... 365
- MARSHALL, H. L., REYNOLDS, D. S., JACOB, K. D., AND TREMEARNE, T. H. Phosphate Fertilizers by Calcination Process. Reversion of Defluorinated Phosphate at Temperatures below 1400° C..... 1294
- MARTIN, J. W., AND KILLEFFER, D. H. Carbon Dioxide from Power Plant Flue Gas..... 632
- MASON, R. B., AND TAYLOR, C. S. Explosion of Aluminum Powder Dust Clouds..... 626
- MAY, O. E. See Moyer, A. J., and Wells, P. A.
- MAYERS, M. A. See Sebastian, J. J. S.
- MAZZAROLA, A. H. See Lawroski, S.
- MEARS, R. B., AND BROWN, R. H. Corrosion Probability..... 1087
- MEISENBURG, S. J. See Boarts, R. M.
- MIDDAUGH, C. V. Welded Equipment in Gas Industry..... 1251
- MIDGLEY, THOMAS, JR. From the Periodic Table to Production. Perkin Medal Award Address..... 241
- MILLER, JOSEPH. See Fellers, C. R.
- MILUS, P. R. Thermochemical Examination of Nitrocellulose..... 492
- MINSKY, ABRAHAM. See Garard, I. D.
- MOFFATT, L. R. See Traxler, R. N.
- MONAGHAN-WATTS, BETTY. Whipping Ability of Soybean Proteins 1009
- MORGAN, H. E. See Dow, R. B.
- MORGAN, W. A. See Keenen, F. G.
- MORRELL, J. C. See Egloff, Gustav, and Thomas, C. L.
- MORRILL, H. L. See Carswell, T. S.
- MOYER, A. J., WELLS, P. A., STUBBS, J. J., HERRICK, H. T., AND MAY, O. E. Gluconic Acid Production. Development of Inoculum and Composition of Fermentation Solution for Gluconic Acid Production by Submerged Mold Growths under Increased Air Pressure..... 777
- See also Wells, P. A.
- MUELLER, A. C. See Baker, E. M.
- MUSHER, SIDNEY. See Peters, F. N., Jr.
- NASH, A. W. See Strang, L. C.
- NASON, H. K. See Carswell, T. S.
- NELLEN, A. H. Extrusion Qualities of Rubber. (Correction) 1159) 886
- NELSON, E. F. See Egloff, Gustav.
- NELSON, E. K. See Beavens, E. A.
- NEWTON, R. H. See Copson, R. L., and Dodge, B. F.
- NICHOLSON, D. G. Calcined Mixtures of Litharge and Titanium Dioxide. X-Ray Diffraction Study..... 716
- NICKELS, J. E. See Tongberg, C. O.
- NUTTING, R. D. See Lewis, W. K.
- OLCOTT, H. S. See Hamilton, L. A.
- OLCOTT, L. E. See Greenup, H. W.
- OLDHAM, F. D. See MacIntire, W. H.
- OLSEN, J. C., AND MAISNER, HERMAN. Vanadium Catalysts. Performance and Poisoning by Arsenic in Sulfuric Acid Manufacture. See also Simpson, W. A. 254
- OLSON, F. R., PETERSON, W. H., AND SHERRARD, E. C. Effect of Lignin on Fermentation of Cellulosic Materials..... 1026
- ONSDORFF, THOMAS. See Fellers, C. R.
- PAGE, J. M., JR. Commercial Paraffin Waxes (Correction)..... 846
- PAINE, H. W. See Clewell, J. H.
- PAINTER, E. P. See Franke, K. W.
- PARKS, G. S. Thermodynamic Calculation of Vapor-Phase Hydration of Ethylene (Correspondence)..... 845
- PARTRIDGE, E. P. See Davidson, J. M.
- PASCALE, VIOLA. See Garard, I. D.
- PAVECK, P. L., PETERSON, W. H., AND ELVEHJEM, C. A. Effect of Growth Conditions on Yield and Vitamin B₁ of Yeast..... 536
- PAYNE, H. F., AND GARDNER, W. H. Permeability of Varnish Films. 893
- PEARL, I. A., AND DEHN, W. M. Oils from Resins by Distillation with Phosphoric Acid..... 1440
- PEAVY, C. C., AND BAKER, E. M. Efficiency and Capacity of Bubble-Plate Fractionating Column..... 1056
- PERRY, A. S. Effect of Sodium Hydroxide on Copper at High Temperatures..... 677
- PETERS, F. N., JR., AND MUSHER, SIDNEY. Oat Flour as Antioxidant. 146
- PETERSON, W. H. See Olson, F. R., and Pavcek, P. L.
- PETRE, A. W. See Bailey, C. F.
- PHELPS, C. W. See Lichty, L. C.
- PHELPS, S. M., AND MARBAKER, E. E. New Ceramic Table Tops..... 541
- PIER, M. Coal Hydrogenation. Comparison of Hydrogenation Products of Coal and Oil..... 140
- PILCHER, J. M., AND VILBRANDT, F. C. Humid Aging of Fly Ash Brick..... 427
- PINKEL, I. I. See Storch, H. H.
- PIPER, J. D., KERSTEIN, N. A., AND FLEIGER, A. G. Oil-Impregnated Paper. Sorption of Organic Acids and Its Relation to Power Factor..... 1040
- THOMAS, D. E. F., AND SMITH, C. C. Oil-Impregnated Paper. Effect of Anhydrous Oxidation Products on Power Factor and Conductivity (Correction)..... 979
- POLE, G. R. See Curtis, H. A.
- PORTER, D. J. See Cryder, D. S.
- POWELL, S. T., AND BACON, H. E. Industrial Water Supplies..... 615
- QUIGGLE, D., TONGBERG, C. O., AND FENSKE, M. R. Reliability of Common Types of Thermocouples..... 827
- RAFF, R. See Dostal, H.
- RALSTON, A. W., AND CHRISTENSEN, C. W. High-Molecular-Weight Alkyl-Aryl Ketones..... 194
- RAYMAN, M. M. See Underkoffler, L. A.
- REDDISH, G. F. Limitations of Phenol Coefficient..... 1044
- REED, D. L., AND CLARK, K. G. Potassium Nitrate from Potassium Chloride and Nitrogen Peroxide..... 333
- REID, E. E. Esterification. Review of Recent Past and Look towards Future..... 1344
- REID, F. R. See Scholl, Walter.
- REISING, J. A. Electrostatic Responses of Pigments in Relation to Flooding, Dispersion, and Flocculation..... 565
- REYNOLDS, D. H. See Clark, G. L.
- REYNOLDS, D. S. See Hill, W. L., and Marshall, H. L.
- RHODES, F. H., AND SLACHMAN, P. G. Plate Efficiency and Entrainment in Distillation..... 51
- AND WANNAMAKER, T. E. Lubricating Properties of Lime-Base Greases..... 702
- AND WYNN, C. S. Effect of Salts on Detergent Action of Soap..... 55
- RICH, A. D. See Vollertsen, J. J.
- RIESMEYER, A. H. See Derr, R. B.
- RINNE, W. W. See Vernon, C. C.
- RINSE, J., AND WIEBOLS, W. H. G. Swelling of Drying Oil Films in Water..... 1149
- ROBERTS, J. A., AND GADDUM, L. W. Composition of Citrus Fruit Juices..... 574
- ROE, E. T. See Wells, P. A.
- ROESS, L. C. See Keith, J. R.
- ROGERS, M. C., AND THIBLE, E. W. Bubble-Cap Column as Liquid-Liquid Contact Apparatus..... 529
- ROGERS, W. F., AND SHELLSHEAR, W. A. Corrosion of Steel by Oil Well Waste Waters..... 160
- ROMANOFF, A. L., AND SULLIVAN, R. A. Refractive Index of Egg Albumen..... 117
- ROSS, A. A., AND BIBBINS, F. E. Esterification. Manufacture of Malonic Ester..... 1341
- ROSS, W. H. See Beeson, K. C., and Hardesty, J. O.
- ROSSINI, F. D. Heats of Formation of Simple Organic Molecules..... 1424
- ROTHENBERGER, L. W. See Shreve, R. N.
- RUBENKONIG, H. L. See Mantell, C. L.
- RUCKMAN, N. E. See Sherwood, T. K.
- RUDOLFS, WILHEM. Effect of Trade Wastes on High- and Low-Temperature Digestion..... 803
- RUMBEL, S. W. See Brizzolara, A. A.
- RUSHTON, J. H. Countercurrent Liquid-Liquid Extraction in Packed Tower. Solvent Extraction of Oil by Nitrobenzene..... 309
- RUSSELL, H. L. Are Patents on Foods and Medicinals in Public Interest?..... 1322
- SAGE, B. H., INMAN, B. N., AND LACEY, W. N. Viscosity of Hydrocarbon Solutions. Methane-Propane-Crystal Oil System. WEBSTER, D. C., AND LACEY, W. N. Phase Equilibria in Hydrocarbon Systems: XVIII. Thermodynamic Properties of Ethane, 658; XIX. Thermodynamic Properties of n-Butane, 1188; XX. Isobaric Heat Capacity of Gaseous Propane, n-Butane, Isobutane, and n-Pentane..... 1309
- SAGER, T. P. Permeability of Organic Polysulfide Resins to Hydrogen..... 747
- SANBORN, J. R. Microbiological Control in Manufacture of Paper Wraps and Containers for Foods..... 949
- SANBORN, N. H. See Kohman, E. F.
- SARIN, J. L. See Shafee, Mohd.
- SCHAEFFER, J. R. See Storch, H. H.
- SCHARMANN, W. G. See Gregory, L. B.
- SCHICKTANZ, S. T., AND ETIENNE, A. D. Acid Content of Whisky..... 157
- SCHLEY, G. B. Society's Need for Patents to University Research Workers, Especially on Food and Drug Inventions..... 1319
- SCHMIDT, WALTER. Growth of Empire Chemically Speaking (Editorial)..... 727
- SCHMITT, H. M. Continuous Control Systems with Variable Characteristics..... 1229
- SCHNEIDER, W. K. See Young, G. H.
- SCHOLL, WALTER, DAVIS, R. O. E., BROWN, B. E., AND REID, F. R. Melamine of Possible Plant Food Value..... 202
- SCHORGER, A. W., AND SHOEMAKER, M. J. Hydroxyalkyl Ethers of Cellulose..... 114
- SCHUH, A. E., AND THEUERER, H. C. Organic Finishes. Effect of Film Thickness on Physical Properties and Exposure Behavior. 182
- SCHUHARDT, V. T. See Axe, W. N.
- SCHUR, M. O., AND HOOS, B. G. Nitration of Purified Wood Fiber..... 26
- SCHWARTZ, CHARLES. See Hall, G. O.
- SCHWEITZER, T. R. See Hoffman, Charles.
- SCHWEYER, H. E. See Traxler, R. N.
- SCOTT, G. S., AND JONES, G. W. Oxidation of Anthracite..... 106
- Significance of Low-Temperature Oxidation Products in Anthracite Mine Fire Studies..... 822

SEBASTIAN, J. J. S., AND MAYERS, M. A. Coke Reactivity.....	1118	TRESSLER, D. K. Discussion. Symposium on: Are Patents on Medicinal Discoveries and on Foods in Public Interest?.....	1325
SEBORG, C. O. Hysteresis in Water Sorption by Papermaking Materials.....	169	ULLOCK, D. S., AND BADGER, W. L. Liquid-Film Heat Transfer Coefficients for Condensing Dowtherm A Vapors to Petroleum and Linseed Oils in Vertical-Tube Heater.....	905
SEIBEL, C. W. Factors in High-Pressure Design.....	414	UNANGST, R. B. See Dett, R. B.	
SELF, S. B. Research and Wall Street.....	9	UNDERKOFER, L. A., FULMER, E. I., AND RAYMAN, M. M. Oat Hull Utilization by Fermentation.....	1290
SEYER, W. F., AND CORNETT, W. F. System Sulfur Dioxide-Decalin..	91	MCPHERSON, W. K., AND FULMER, E. I. Alcoholic Fermentation of Jerusalem Artichokes.....	1160
SHAFFER, MOHD., AND SARIN, J. L. Production of Starch from Water Caltrop.....	1436	UPTON, W. V., AND BUSWELL, A. M. Titanium Salts in Water Purification.....	870
SHEEHAN, W. E., KELLY, H. E., AND CARMODY, W. H. Indene-Coumarone Solvent Oils.....	576	Urey, H. C. See Huffman, J. R.	
SHELLSHEAR, W. A. See Rogers, W. F.		VALAER, PETER. Foreign and Domestic Rum.....	988
SHERARD, E. C. See Olson, F. R.		VARTERESSIAN, K. A., AND FENSKE, M. R. System Methylcyclohexane-Aniline- <i>n</i> -Heptane. Graphical Design Methods Applied to Fractional Extraction of Methylcyclohexane and <i>n</i> -Heptane Mixtures.....	270
SHERWOOD, T. K., DRAEMEL, F. C., AND RUCKMAN, N. E. Desorption of Carbon Dioxide from Water in Packed Tower.....	282	VELTEN, H. J. Automatic Mixing and Proportioning of Gases and Liquids.....	1214
See also Chambers, F. S., Jr., and Hutchinson, M. H.		VERNON, A. A., AND GILL, R. E. Life of Shellacs after Heating..	1439
SHOEMAKER, M. J. See Schorger, A. W.		VERNON, C. C., AND RINNE, W. W. Oxidation of Unbodied Linseed Oil.....	1393
SHEVEY, R. N. Classification of Unit Processes.....	1329	VERNON, H. C. See Chilton, T. H.	
Introduction. Symposium on Onit Processes.....	1329	VILBRANDT, F. C. See Pilcher, J. M.	
AND ROTHENBERGER, L. W. Amination in Liquid Ammonia.....	1361	VINCENT, C. R. Resistant Metals. Economy or Cheapness?.....	389
SIMPSON, W. A., AND OLSEN, J. C. Quantitative Control of Sulfonation Processes.....	1350	VINCENT, H. L. Oxygen-Induced Gelation of Unsaturated Polyesters. Polyglycol Maleates as Drying Oils.....	1267
SINGH, A. D. See Johnstone, H. F.		VOLLERTSEN, J. J., AND RICH, A. D. Technical Developments in Meat Packing.....	485
SINNATT, F. S., KING, J. G., AND MACFARLANE, ANGUS. Hydrogenation.....	133	WALKER, H. W. See Starkweather, H. W.	
SKINNER, K. G. Coke-Carbon Dioxide Relations.....	696	WALSH, J. F. Corn Proteins.....	673
SLACHMAN, P. G. See Rhodes, F. H.		WAMPNER, H. L. See Bogin, Chas.	
SMITH, C. C. See Piper, J. D.		WANNAMAKER, T. E. See Rhodes, F. H.	
SMITH, H. DeW. Structure of Cellulose.....	1081	WARREN, T. E., AND GILMORE, R. E. Hydrogenation Tests on Canadian Coal.....	353
SMITH, R. L., AND WATSON, K. M. Boiling Points and Critical Properties of Hydrocarbon Mixtures.....	1408	WASHINGTON, LAWRENCE, AND MARKS, W. M. Heat Transfer and Pressure Drop in Rectangular Air Passages.....	337
SNELL, F. D. Heat Transfer with Nonflammable Organic Compounds.....	89	WATSON, K. M. See Smith, R. L.	
Souring as Laundry Operation.....	560	WEBSTER, D. C. See Sage, B. H.	
Treatment of Fiberboard Waste.....	238	WEIDLEIN, E. R. Greetings from Our President (Editorial).....	1
Treatment of Rayon Boil-off Waste.....	1438	WEIR, H. M., AND EATON, G. L. Heat of Reaction of Cracking Petroleum.....	346
AND KIMBALL, C. S. Briquetting Coal with Sodium Silicate.....	724	WEITH, A. J. Plastics Fortify against Corrosion.....	380
SOKOLOVSKY, A. Effect of Humidity on Hygroscopic Properties of Sugars and Caramel.....	1422	WELLS, P. A., MOYER, A. J., STUBBS, J. J., HERRICK, H. T., AND MAT, O. E. Gluconic Acid Production. Effect of Pressure, Air Flow, and Agitation on Gluconic Acid Production by Submerged Mold Growths.....	653
SPRARAGEN, W. Designing Welded Chemical Equipment.....	366	STUBBS, J. J., LOCKWOOD, L. B., AND ROE, E. T. Sorbose from Sorbitol. Production by Submerged Growths of <i>Acetobacter suboxydans</i>	1385
SQUIRES, LOMBARD. See Lewis, W. K.		See also Moyer, A. J.	
STAMM, A. J. Minimizing Wood Shrinkage and Swelling. Treatment with Sucrose and Invert Sugar.....	833	WHITACRE, C. H. See Burk, R. E.	
AND HANSEN, L. A. Minimizing Wood Shrinkage and Swelling. Effect of Heating in Various Gases.....	831	WHITTAKER, C. W., ADAMS, J. R., AND JACOB, K. D. Hygroscopicity of Fertilizer Mixtures. Effect of Calcined Phosphates.....	1144
STARKWEATHER, H. W., AND WALKER, H. W. Influence of Metallic Oxides on Neoprene Properties.....	872	See also Lundstrom, F. O.	
Water Resistance of Neoprene.....	1380	WICK, O. J. See Wilson, C. L.	
STEWART, J. K., AND BEWICK, H. L. Relation of Thinners in Overlapping Varnish Coatings.....	167	WICKERT, J. N. See Wilkes, B. G.	
DORSCH, J. B., AND HOPPER, C. B. Solvent Balance of Solvent-Diluent Mixture.....	899	WIEBOLS, W. H. G. See Rinse, J.	
STIRTON, A. J. See Groggins, P. H.		WIEGAND, W. B. pH Properties of Colloidal Carbon.....	953
STORCH, H. H. Coal Hydrogenation. Chemistry.....	1367	WILKES, B. G., AND WICKERT, J. N. Synthetic Aliphatic Penetrants.....	1234
HIRST, L. L., GOLDEN, P. L., PINKEL, I. I., BOYER, R. L., SCHAEFFER, J. R., AND KALLENBERGER, R. H. Coal Hydrogenation. U. S. Bureau of Mines Experimental Plant.....	1377	WILLIAMS, IRA. Swelling and Solvation of Rubber in Different Solvents.....	172
AND PINKEL, I. I. Preparation of Active Cobalt-Copper Catalyst for Water-Gas Shift Reaction.....	715	WILLIAMS, R. R. Beriberi Vitamin.....	980
STRANG, L. C., HUNTER, T. G., AND NASH, A. W. Conditions at Liquid-Liquid Interface.....	278	WILLKIE, H. F., BORUFF, C. S., AND ALTHAUSEN, DARRELL. Controlling Gin Flavor.....	78
STUBBS, J. J. See Moyer, A. J., and Wells, P. A.		WILSON, C. L., AND WICK, O. J. Cadmium-Indium Alloy System.....	1164
SULLIVAN, R. A. See Romanoff, A. L.		WILSON, OTTO. Chemical Foreign Trade in 1936.....	358
SUPPLEE, W. C. Vitamin D Content of Menhaden Fish Oil.....	190	WILSON, R. E. Insignificance of the Chemist (Editorial).....	847
SWANN, SHERLOCK, JR. Industrial Possibilities of Electroorganic Reduction.....	1339	Medalist. Perkin Medal Award.....	239
SWOPE, H. G., AND HESS, R. H. Removal of Fluorides from Natural Waters by Defluorite.....	424	WOLF, F. A. See Darkis, F. R.	
TALLEY, S. K. See Anderson, A. P.		WORK, L. T. See Ligorio, C.	
TAYLOR, C. S. See Mason, R. B.		WYNN, C. S. See Rhodes, F. H.	
THEVERER, H. C. See Schuh, A. E.		YOUNG, G. H., AND GERHARDT, G. W. Film-Continuity of Synthetic Resin Coatings. Test Methods.....	1277
THIELE, E. W. See Rogers, M. C.		SCHNEIDER, W. K., AND GERHARDT, G. W. Film-Continuity of Synthetic Resin Coatings. Effect of Surface Variation on Minimum Coating Weights for Synthetic Resin Films.....	1280
THIESSEN, GILBERT. Coke from Illinois Coal.....	506	ZELLHOEFER, G. F. Solubility of Halogenated Hydrocarbon Refrigerants in Organic Solvents.....	548
THOMAS, C. A. Introduction. Symposium on Automatic Control.....	1209		
THOMAS, C. L., EGLOFF, GUSTAV, AND MORRELL, J. C. Thermodynamics in Hydrocarbon Research.....	1260		
THOMAS, D. E. P. See Piper, J. D.			
THOMPSON, R. R. Papain. Effect of Storage upon Activity.....	1047		
TISCHER, A. O. See Baxter, J. G.			
TONGBERG, C. O., FENSKE, M. R., AND NICKELS, J. E. Composition of Yates Gasoline.....	70		
LAWROSKI, S., AND FENSKE, M. R. Packing Material for Fractional Distillation Columns.....	957		
NICKELS, J. E., LAWROSKI, S., AND FENSKE, M. R. Fractional Distillation of Cracked and Polymer Gasolines.....	571		
See also Lawroski, S., and Quiggle, D.			
TRAXLER, R. N., SCHWEYER, H. E., AND MOFFATT, L. R. Viscosities of Liquid-Solid Systems. Influence of Dispersed Particles.....	489		
TREMEARNE, T. H. See Marshall, H. L.			