### 1913

1. CLARK, Clinton Willard. (Title not Available).

2. CLARK, Hugh. An Improved Method for the Manufacture of Hydrogen and Lamp Black.

3. CORLISS, Harry Percival. The Distribution of Colloidal Arsenic Trisulfide between the Phases in the System Ether, Water, and Alcohol.

4. PRATT, Lester Albert. Studies in the Field of Petroleum.

5. SHIVELY, Robert Rex. A Study of Magnesia Cements.

### 1914

6. UHLINGER, Roy H. The Formation of Utilizable Products from Natural Gas.

### 1915

7. DUNPHY, Raymond Augustine. Theory of Distillation and the Laws of Henry and Raoult.

8. LIEBOVITZ, Sidney. Study of Dynamics of Esterification.

9. MORTON, Harold Arthur. Study of the Specific Rotatory Power of Organic Substances in Solution.

10. WITT, Joshua Chitwood. Oxidation and Reduction Without the Addition of Acid. I. The Reaction between Ferrous Sulfate and Potassium Dichromate. II. The Reaction Between Stanous Chloride and Potassium Dichromate. (Neidle)

## 1917

11. COLEMAN, Arthur Bert. Tetraiodofluorescein, Tetraiodoeosin, Tetraiodoerythrosin and Some of Their Derivatives. (Pratt)

12. MILLER, Rolla Woods. On the Mechanism of the Potassium Chlorate-Manganese Dioxide Reaction.

13. PERKINS, Granville Akers. Phthalic Anhydride and Some of Its Derivatives. (Pratt)

14. SHUPP, Asher Franklin. Phenoltetraiodophthalein and Some of Its Derivatives. (Pratt)

#### 1919

15. CURME, Henry R. Butadiine (Diacetylene). II. Analysis of Gas Mixtures by Distillation at Low Temperatures and Low Pressures. III. The Precise Analytical Determination of Acetylene, Ethylene, and Methyl Acetylene in Hydrocarbon Gas Mixtures.

16. DROGIN, Isaac. The Effect of Potassium Chloride on the Inversion of Cane Sugar by Formic Acid.

17. YOUNG, Charles Otis. Tetrabromophthalic Acid and Its Condensation with Some Primary Amines.

#### 1920

18. BALZ, Emil Harold. Derivatives of 2,4,6-Trinitrobenzaldehyde. (Lowy)

19. BOGUE, Robert Herman. The Properties and Constitution of Glues and Gelatins.

## 1921

20. ELLEDGE, Harvey Gerald. On the Solubility of the Calcium and Magnesium Salts of Palmitic, Stearic and Oleic Acids.

## 1922

21. GILL, Harry Elmer. Investigation of the Utilization of Waste Leather.

22. HARVEY, Adelbert William. Sulfonation of Aromatic Hydrocarbons Under the Influence of Temperature. I. Sulfonation of Benzene. (Stegeman)

23. HENDERSON, William Franklin. The Chemical Properties of Cotton Linters. (Lowy)

24. HOWALD, Arthur Mark. The Catalytic Ammonolysis of Beta-Naphthol and Chlorobenzene in the Vapor State. (Lowy)

25. NOBLE, Royce Jennings. Azo Derivatives of Anthraquinone.

26. SEIL, Gilbert Edward. Chemical Reactions as Influenced by the Subdivision of the Reacting Substances.

27. STERICKER, William. Properties of Sodium Silicate Sols.

# 1923

28. DOWNEY, Thomas Briley. Derivatives of 2,4-Dinitrobenzaldehyde. III. (Lowy)

29. JONES, Charles Luther. The Retorting of Shale Oil.

30. KING, Charles Glen. Derivatives of 2,4-Dinitro-benzaldehyde. (Lowy)

31. WESCOTT, Blaine Benjamin. Catalytic Decomposition of Formic Acid. (Engelder)

## 1924

32. DUNBROOK, Raymond Frederick. The Electrolytic Oxidation of Toluene, p-Nitrotoluene and p-Chlorotoluene to Their Respective Acids. (Lowy)

33. HJORT, Elmer Victor. Selenium Galvanometric Colorimeter. (Lowy)

34. POWERS, Paul Odell. A Study of the Utilization of Light Wood Oil. (Lowy)

35. SAUNDERS, Paul Canfield. Composition of Ozone and the Time-Energy Factor in Ozone Formation. (Silverman)

36. SUTTON, Willard James. The Electricial Conductivity of Sodium Chloride in Molton Glass. (Silverman)

37. TESH, Kendall Siebert. The Electrolytic Preparation of Phenylhydrazine and Phenylmercuric Chloride. II. The Electrolytic Reduction of Salicylic Acid (Sodium Salt) to Salicylaldehyde. (Lowy)

38. WOOD, Arthur Eugene. Action of Petroleum Refining Agents on Pure Organic Sulfur Compounds Dissolved in Naphtha.

### 1925

39. KAMMER, Glenn Donald. Ionium and Thorium in Colorado Carnotite. The Adsorption of Ionium and Thorium by Barium Sulfate. (Silverman)

40. LEWERS, William Wright. Comparative Study of Azo Dyes Made with H-Acid and Acetyl-H- Acid. (Lowy)

41. PARRETT, Arthur Newton. Catalytic Reduction of "-Nitronaphthalene to "-Naphthylamine.

42. ROSENBERG, Jacob Ellis. Adsorption of Ions on Metallic Surfaces and Its Effect on Electrode Potentials. (Stegeman)

43. RUDISILL, William Augustus. Catalytic Activation of Titania. (Engelder)

1926

44. BALDWIN, Wilmer Entriken. The Action of Ozone on the Leuco-Base of Malachite Green. (Lowy)

45. CONN, John Ferguson. The Electrolytic Oxidation of p-Bromotoluene and o-Nitrotoluene. (Lowy)

46. CROCO, Carlton Webster. Electrochemical Chlorination and Bromination of Benzene. (Lowy)

47. KESLER, Carl Chambers. Purification of Abietic Acid from Rosin and Preparation of Some of Its Derivatives. (Lowy)

48. KESLER, Rachel Hoyle. Derivatives of  $\alpha$ -Hydroxy- $\beta$ -Naphthoic Acid. (Lowy)

49. NELSON, William Lionel. The Bromination and Chlorination of H-Acid and Chromotropic Acid. (Engelder)

50. NEVYAS, Jacob. Electrochemical Reduction of Indigo. (Lowy)

51. ROBINSON, Abraham Louis. The Solubility of Potassium Bromide in Acetone as Related to the Interionic Attraction Theory. (Stegeman) 52. TRUSLER, Ralf Barth. Amides and Amide Acid Sulfates from Nitriles and Esterification of Amide Acid Sulfates.

53. YOUNG, John Leslie. The Effect of Suspended Material Upon the Electrical Conductivity of Aqueous Solutions of Slightly Soluble Salts. (Stegeman)

## 1927

54. AVERILL, Harold Paul. The Relation Between the Chemical Constitution and Physical Properties of the Triglycerides. (King)

55. BALCAR, Frederick Rhinehart. The Adsorption and Solution Phenomena Encountered in Precipitations. (Stegeman)

56. HERRON, Frederick Young. Origin and Production of Fusel Oil.

57. MOORE, Catherine May. A Study of the Electrolytic Oxidation of Isoeugenol and Acetylisoeugenol. II. Some Derivatives of Acetylvanillin.

58. MYERS, Latimer Duffield. Application of the Solid Solution Theory to the "Sweating Process" of Paraffin Wax. (Stegeman/Faragher)

59. PECK, Wallace Swanzey. The Free Energy of the Sulfonation of Benzene.

60. ROCHE, James Norman. The Relation Between the Chemical Structure and Physical Properties of Triglycerides. (King)

61. WOODWARD, Hubert Edmund. A Study of Conditions Affecting the Electrolytic Preparation of Sodium Amalgam.

## 1928

62. EDWARDS, David Fruston. The Relative Heats of Reaction of Sulfuric Acid with Naphtha Solutions of Olefins and the Polymerization of Trimethylethylene. (Lowy)

63. HUBBUCH, Leo Phillip. Electrochemical Reduction of Azo Dyes to Their Respective Amino Compounds. (Lowy)

64. LAI, Chi Fang. The Preparation and Study of Beryllium Glasses. (Silverman)

65. McCLURE, Robert Elmer, Jr. The Electrochemical Preparation of Phenylhydrazine. (Lowy)

66. MEAD, Morris, W., Jr. Proteolysis and the Specific Destruction of Amino Acids by *Clostridium sporogenes* and *Clostridium histolyticum*. (King)

67. MILLER, Lewis Earl. The Catalytic Oxidation to Carbon Monoxide by Titania and Mixtures of Titania with Various Metallic Oxides.

68. MITRA, Himansu Kumar. The Prevention of Disintegration of Blast Furnace Linings. (Silverman)

1929

69. DAVIDSON, James Meyer. Reactions of Vinyl Chloride and Benzene in the Presence of Aluminum Chloride.

70. MUNGER, Hamnett Pitzer. The Phase Diagram for the System Sulfur-Naphthalene and Its Relation to Introfaction. (Stegeman)

71. THAYER, Victor Robert. Measurement of the Heat Capacity and Evaluation of the Free Energy of Ethane Gas. (Stegeman)

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72. BLUMER, Manuel. The Catalytic Oxidation of Carbon Monoxide. (Engleder)

73. GOLDBLATT, Leo Arthur. The Nitration of Abietic Acid and the Study of Some of Its Nitrogen Derivatives. (Lowy)

74. GRETTIE, Donald Pomeroy. The Preparation and Properties of Antiscorbutic Fractions from Lemon Juice. (King)

75. LANDOLT, George Lifred. The Relative Floating Powers of the Various Active Constituents of Crude Cresylic Acid in the Agitation-Froth Flotation of a Galena-Sphalerite- Pyrite Ore. (Lowy)

76. McKINNIS, Ronald B. The Nature of Vitamin C:A New Transference Apparatus and Its Use in the Study of Vitamin C. (King)

77. SIPPLE, Horace Lawson. A Study of the Preparation and Properties of Vitamin C Fractions from Lemon Juice. (King)

78. THIESSEN, Gilbert. The Isolation of the Humic Acid. (Engelder)

## 1931

79. EBREY, Glenn Ogle. The Pyrolysis of Propane. (Engelder)

80. FERGUSON, John Henry. Relation Between Molecular Structure and Rotatory Power: The Ethyl Glucosides and Their Tetra-Acetates.

81. LABARTHE, Jules. Oxidation of a High Melting Paraffin (Superla Wax). (Lowy)

82. PAYNE, Claron R. Study of the Composition of a Highly Cracked Gasoline Before and After Heat Treatment. (Lowy)

83. ROBINSON, Herbert Edwin. Synthetic Fatty Acid Glycerides. (King)

84. SCHILLER, William John. System of Inorganic Qualitative Microanalysis. (Engelder)

85. SMITH, Frederick Lauderburn, II. Vitamin C Preparations from Lemon Juice. (King)

86. SVIRBELY, Joseph Louis. Study in the Preparation of Vitamin C Concentrates from Lemon Juice. (King)

## 1932

87. AMDUR, Isadore. The Temperature Coefficient of the Recombination Rate of Atomic Hydrogen. (Robinson)

88. ARNOLD, Chester L. The Isolation and Study of the Humic Acids from Peat. (Lowy)

89. BRIDGHAM, Catherine Mitchell. A Study of the Chemical Nature of Lemon Albedo Pectin.

90. GLICK, David. Relationships Between the Constitution of Organic Compounds and Their Effects upon Liver Esterase and Pancreatic Lipase. (King)

91. HAAS, Matthias Edward. Heat Capacity and Free Energy of Formation of Ethylene. (Stegeman)

92. JACKSON, Donald Tash. Study of Partially Acylated Glycerides. (King)

93. LEVIN, David Edward. Derivatives of Dihydroeugenol and Certain Pharmacological Properties of Some of these Compounds. (Lowy)

94. MARTIN, Samuel Maner. The Distribution of Gum Forming Constituents in a Cracked Gasoline. (Lowy)

95. RASCH, Carl Henry. Electrochemical Oxidation of Anthraquinone. (Lowy)

96. WARDNER, Carl Arthur. Nitration of m-Diphenylbenzene and Derivatives of Nitro-m-Diphenylbenzene. (Lowy)

97. WHITE, Elam Gurney. The Electrochemical Oxidation of Naphthalene Using a New Type of Electrode.

98. WHITE, Guy Haywood, Jr. The Electrolytic Oxidation of Leuco-Bases of the Triphenylmethane Series of Dye Stuffs. (Lowy)

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99. ANDREWS, Leslie Henry. Catalytic Reduction of Azo and Anthraquinone Types of Compounds. (Lowy)

100. BESSEY, Otto Arthur. The Protein Metabolism of *Clostridium histolyticum* and *Clostridium sporogenes*: An Enzyme Study. (King)

101. BIGELOW, Maurice Hubbard. A Study of the Sodium Series of Selenium Glass. (Silverman)

102. GILLANDER, Hugh E. A Study of the Factors Involved in the Weathering of Creosotes. (King)

103. HOYT, Creig Simmons. The Free Energy of Formation of Lead Amalgams. (Stegeman)

104. PETTY, Gerald McKinney. The System Sulfur-Octachlorobiphenyl. (Stegeman)

105. WAUGH, William A. The Isolation and Identification of Vitamin C. (King)

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106. BAKER, Zelma. A Study of the Purification, Specificity and Inhibition of Liver Esterase. (King)

107. DAUGHERTY, Thomas Hill. A New Mercury Arc Microscope Illuminator and a Preliminary Study of the Fluorescence of Rayons.

108. GULBRANSEN, Earl A. Relative Partial Molal Heat Contents and Partial Molal Heat Capacities of Sodium Chloride Solutions. (Robinson)

109. McELROY, Olive Elizabeth. Synthetic Triglycerides of the Dilaurin Series. (King)

110. SILVER, Samuel Lewis. Friedel-Craft's Type Reactions on Biphenyl. (Lowy)

111. STIMMEL, Benjamin F. The Preparation and Properties of Beta-Monoglycerides. (King)

112. WEBER, Helmut Henry Reppin. Inhibition and Specificity of Liver Esterase and Pancreas Lipase. (King)

#### 1935

113. BLAU, Henry Hess. Causes of Opalescence in Glasses: Silicon, Sodium, Calcium, Oxygen, Fluorine Series. (Silverman)

114. BRANDES, Oliver Leonard Victor. Catalytic Polymerization of Propylene. (Lowy)

115. HAAS, Eugene George. The Heat Capacity and Entropy of Lead Sulfate.

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116. FURTSCH, Edward Frank. The Heat Capacity and Entropy of Beta-Lactose. (Stegeman)

117. KANE, Howard L. Reactions of Alkyl Sulfates, Tetraethyl Orthosilicate, and Diethyl Carbonate in Friedel-Craft's Syntheses. (Lowy)

118. LAWTON, Howard Champreux. The Recombination of Hydrogen Atoms. (Robinson)

### 1937

119. BAMBAS, Louis Ludwig. The Respiration of the Pneumococci with Special Reference to the Dehydrogenase System. (King)

120. DUNKELBERGER, Tobias Henry. Integral Heats of Dilution, Relative Partial Molal Heat Contents and Heat Capacities of Aqueous Cadmium Sulfate Solutions. (Robinson)

121. GREEN, Melvin William. A Study of the Chemistry of Cascara Sagrada. (King)

122. HARRIS, Edward Lee. Preparation of Derivatives of 4-Phenyl Salicylaldehyde. (Lowy)

123. LYMAN, Carl Morris. Studies on Vitamin C. Relationships to Biological Oxidations and Diphtheria Toxin. (King)

124. MUSULIN, Rade Rade. Studies on Vitamin C Analysis.

125. PHILLIPS, Joseph. The Electrolytic Reduction of Trinitro Aromatic Compounds to Their Respective Triamines and the Titration of Aromatic Amines with Nitrous Acid. (Lowy)

126. SIGAL, Alex. Studies of Vitamin C. Relationships of Vitamin C and Diphtheria Toxin to the Glucose Tolerance of Guinea Pigs. (King)

## 1938

127. BERMAN, Nathan. Reactions of Trialkyl Phosphates, Alkyl Acetates, and Tertiary Butyl Hypochlorite in the Friedel-Crafts' Syntheses. (Lowy)

128. GOODMAN, Henry Gaines. Friedel-Crafts' Reactions on Meta-Diphenylbenzene. (Lowy)

129. KLEIBACKER, Wilson McAlarney. Chemical Reactions of Thiophthalic Anhydride. (Lowy)

#### 1939

130. ALBERT, William Charles. The Electrochemical Reduction of Furfural. (Lowy)

131. CLARKE, Theodore H. The Heat of Formation of Sugars. (Stegeman)

132. DAUBERT, Bernard Forbes. Synthetic Fats: Relationships Between Molecular Structure and Properties.

133. NORRIS, Frank Arthur. The Synthesis and Hydrolysis of Optically Active Monopalmitin. (King)

134. O'BROCHTA, John. Thio Compounds Derived from Aroyl Orthobenzoic Acids. (Lowy)

## 1940

135. ANDERSON, Adolph Gabriel. The Heat Capacity and Entropy of Three Disaccharides.

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136. DODDS, Mary Letitia. The Catalytic Oxidation of Ascorbic Acid. (King)

137. EPELBERG, Jack J. The Alkylation of Biphenyl Using Alkyl Sulfates in Friedel-Crafts' Syntheses. (Lowy)

138. HARRER, Carter John. Ascorbic Acid in Tissue Respiration and Isolated Enzyme Systems. (King)

139. LIDDELL, Robert William. A Study of the Chemistry of Cascara Sagrada. (King)

140. LOWSTUTER, William Robert. The Electrochemical Oxidation of n-Hexanol.

141. SILVERBLATT, Ethel. A Study of the Copper Catalyzed Oxidation of Ascorbic Acid. (King)

142. SUN, Kuan-Han. Tantalum Glass: K2O.Ta2O5.SiO2 Series. (Silverman)

#### 1941

143. BIANCULLI, Joseph Amedeo. p-(p-Aminophenyl)-Benzenesulfonamide and Derivatives. (Lowy)

144. DAY, Frank. Oxidation-Reduction Equilibria in Glass between Iron and Selenium in Various Furnace Atmospheres.

145. JACK, George William. The Heat Capacities and Entropies of Two Monosaccharides. (Stegeman)

146. MIRON, Simon. Preparation of Bis-(Substituted Aryloxy)-Methanes. (Lowy)

147. RAY, Gardner Cleveland. Reactions of Ketene. (Lowy)

148. SAFFORD, Hurd Winter. Alumina-Silica Relationship in Glass. (Silverman)

149. VAN METER, Clarence Taylor. p-(p-Aminophenyl)-Benzenesulfonamide and Derivatives. (Lowy)

150. WALLACE, William Edward. Integral Heats of Dilution, Relative Partial Molal Heat Contents, and Heat Capacities of Aqueous Sodium Sulfate Solutions. (Robinson)

## 1942

151. ABRAMS, Ellis. Derivatives of Meta-Diphenylbenzene. (Lowy)

152. FONTAINE, Thomas Davis. The Quantitative Determination of the Amino Acids of Cottonseed Globulin. (Lowy)

153. KAPFF, Sixt Frederick. Effect of an Aluminum Chloride Treatment on the Composition and Properties of Pennsylvania Type Lubricants.

154. NICKELS, Joseph Edward. High Temperature Destructive Alkylation of Cyclic Hydrocarbons with Gaseous Paraffins Under Pressure. (Baldwin)

155. SOLOMON, Sister Miriam Grace. Some Derivatives of (a) Trimethylgallaldehyde, (b) Trimethylgalloyl Chloride. (Lowy)

156. WALSTON, Wayne Ervan. A Study of the Electrolytic Oxidation of Acenaphthene. (Lowy)

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157. BALDWIN, Arthur Richard. Several Aspects of Fat Metabolism in Guinea Pigs and Rats. (Longenecker)

158. DONIA, Robert Alan. The Effect of Substitution in Anthraquinone-2-Azo Dyes. (Longenecker)

159. DRAKE, Billy Blandin. A Study of the Oxidations of Tyrosine and Tryptophane Including Potentiometric Measurements. (Smythe)

160. FRICKE, Howard Henry. Preparation and Properties of Some Synthetic Monounsaturated Fatty Acid Glycerides. (Longenecker/Daubert)

161. JACKSON, Frank Lawrence. Synthetic Glycerides: Preparation and Properties of a Series of Symmetrical Mono`leo-Disaturated Triglycerides. (Longenecker)

162. KUIKEN, Keeneth Alfred. I. A Study of Guinea Pig Nutrition with Reference to the Need for Unknown Dietary Factors. II. A Study of the Effect of Deficiencies in Copper and Iron on the Catalase Activity of Rat Tissues. (Schultze)

163. LAWRENCE, John McCune. The Purification and Properties of the Liver Enzyme Which Causes the Production of Hydrogen Sulfide from Cysteine. (Smythe)

164. McKINLEY, Joseph Burns. The Thermal Polymerization and Cyclic Dimerization of Isobutylene.

165. MORGAN, Marcus S. A Study of Some Derivatives of cis-3,6-Endomethylene-)4- Tetrahydrophthalic Anhydride. (Dull)

166. NEUBECK, Clifford Edward. Glutathione: A Study of Its Reactions Including Enzymatic Hydrolysis. (Smythe)

167. RIESER, Raymond George. Polarographic Investigation of Glutathione, Cysteine, and Ascorbic Acid. (Smythe)

168. SPIEGL, Charles J. Unsymmetrical Triglycerides of the Diolein Series. (Longenecker)

169. STEINER, Robert Henry. The Nitration of 2-Naphthaldehyde and Reactions of Nitro-2-Naphthaldehydes.

170. WEAVER, Welcome I. A Study of Morpholinomethyl Derivaties of Urea and Substituted Ureas.

171. WILSON, Alexander Logan. Ethylenimine Dimer and Certain Analogues. (Lowy)

172. ANDERSON, John Ray. Non-Benzenoid Hydrocarbons in Refined Coke-Oven Benzol. (Engelder)

173. CRAIG, Raymond Scott. The Heat Capacity and Entropy of L-Ascorbic Acid. (Stegeman)

174. FENG, Kuo-Chih. Certain Aspects of Biological Synthesis of Ascorbic Acid in Rats. (McCoy)

175. FILER, Lloyd Jackson. A Study of Chemical Changes Occurring During Fat Autoxidation. (Longenecker)

#### 1945

176. KAPLAN, Ephraim Henry. The Characterization of Products of Coal Hydrogenation. (Daubert)

#### 1946

177. GRIM, J. Marshall. The Thermal Polymerization of 2-Vinylnaphtalene. (Baldwin)

178. PURVIS, Sarah Ellen. Chemical Studies Related to Blood Formation. (McCoy)

179. RAMSEY, Virginia Gertrude. The Synthesis of Some Quinoline Derivatives.

#### 1947

180. FISCHER, Marie Augusta. An Investigation of the Electrophoretic Changes Accompanying the Inactivation of Tobacco Mosaic Virus by Treatment with Formaldehyde. (Lauffer/Wallace)

181. ROBBINS, Thomas Ennis, Jr. The Preparation of Certain Nitrothiocyanophenols.

182. SPEIER, John Leopold, Jr. Some Alpha-Substituted Organo-Silicon Compounds: Their Synthesis, Derivatives, and Properties. (Daubert)

183. STEFL, Eugene Paul. The Reaction of 2-Nitropropane with Acid Anhydrides.

#### 1948

184. DONIN, Milton Norman. The Biological Specificity of Biotin: An Approach to the Synthesis of the Cyclopentane Analogue of Biotin. (Hofmann)

185. FINEMAN, Morton A. Heats of Formation and Some Derived Thermodynamic Properties of Sodium Chloride-Sodium Bromide Solid Solutions. (Wallace)

186. GOODWIN, John Thomas, Jr. The Use of Sodium in the Preparation of Methylene-Linked Silanes.

187. OFFUTT, William Franklin. Heats of Dilution of Aqueous Solutions of Four Amino Acids. (Robinson)

188. ROTHERMEL, Joseph Jackson. X-Ray Absorbing Phosphate Glass: PbO-WO3-P2O5 System. (Silverman)

189. WORTHINGTON, Edward Arthur. The Effect of Coordinated Cobalt Soaps on the Drying of Oils and Paints. (Nicholson)

### 1949

190. BEACHAM, Harry Hoyt, Jr. The Interaction of Carbohydrates and Amines as Related to the Browning Reaction. (Dull)

191. DAVIS, William Donald. Heats of Formation of Sodium Borohydride, Lithium Borohydride, and Lithium Aluminum Hydride. (Stegeman)

192. DOERSCHUK, Albert Peter. Low Temperature Solvent Fractionation of Corn Oil; Calculation of Its Glyceride Structure. (Daubert)

193. HIGBIE, Howard Ernest. Some Thermal Relations in the System Sucrose-Water. (Stegeman)

194. KAPUR, Sikandar Lal. Component Fatty Acids of Some Cruciferae Oils and a Study of the Hydrogenation of Rapeseed Oil.

195. MITZ, Milton A. Studies on the Mode of Action of Biotin. (Hofmann)

196. NATHAN, Charles Carb. The Heat of Combustion of Boron and Lithium Borohydride. (Stegeman)

197. SKURCENSKI, Anton. A Comparative Study of Some Isomeric Quinoline-Azo Compounds. (Baldwin)

198. SPINDT, Roderick S. The Chemistry of Some Olefin Sulfurization Products.

199. STEELE, Arthur Burns. A Study of the Polymerization Products of Diketene.

200. WOOLFOLK, E. Oscar, Jr. A Study of Some Oxygenated Compounds Produced by the Hydrogenation of Coal.

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201. BENEDICT, James Harold. Studies on the Isomeric Oleic Acids.

202. BOODMAN, David Morris. The Heat Capacities and Entropies of Sodium Borohydride and Lithium Borate. (Stegeman)

203. BOWMAN, Robert Samuel. Steric and Resonance Effects in the t-Butyl and Isobutylphenols. (Baldwin/Stearns)

204. BUCK, Thomas M., Jr. The Heats of Formation of Certain Magnesium-Cadmium Alloys at 25EC. (Wallace)

205. FARRAR, Martin Wilbur. The Acylation of Certain Thiophene and Furan Derivatives. (Levine)

206. FELDMAN, Julian. The Separation of 1- and 2-Methylnaphthalenes by Azeotropic Distillation. (Hofmann)

207. KETCHEN, Eugene E. Heats of Formation of Sodium-Potassium Alloys at 25EC. (Wallace)

208. KLEIN, Ralph. A Tracer Study of the Thermal Decomposition of Cellulose Nitrate and an Experimental Approach to the Mechanism of Propellant Burning. (Robinson/Vonelbe)

209. MAGEE, Margaret Zerelda. Contribution to the Synthesis of Peptides of High Molecular Weight. (Hofmann)

210. REBELLO, Damascene. A Study of the Structure of Isolinoleic Acid.

211. REGGEL, Leslie. Synthesis of Benz[j] Fluoranthene and Benz[k] Fluoranthene. (Hofmann)

212. ROSENFELD, Robert Samson. Contributions to the Chemistry of Limonin.

213. SCHEPARTZ, Abner Irwin. The Isolation, Identification, and Synthesis of Reversion Compounds in Hydrogenated Soybean Oil.

214. STAPF, Robert Joseph. The Isolation and Identification of Reversion Compounds in Soybean Oil. (Daubert)

215. TRUMBORE, Forrest A. Free Energies of Formation of Magnesium-Cadmium Alloys between 270E and 300EC. (Wallace)

216. WENDER, Irwin J. A Study of the Oxo and Related Reactions. (Levine)

## 1951

217. BERK\_Z, Mehmet Belig. Studies on the Synthesis of Unsaturated 2-Monoglycerides. (Daubert/Hill)

218. BROWNING, Luther Cannon. Equilibria in the Systems Fe3C-Fe-CH4-H2, Fe2C-Fe-CH4-H2 and C-CH4-H2. (Robinson/Emmet)

219. DICKEL, Daniel Frederick. Studies of Bound Forms of Biotin in Yeast and Liver. (Hofmann)

220. GERHARDT, George W. Thermal Stabilizers for Some Resins Which Contain Chlorine: Identification of a Stabilizer Extracted from Coal-Tar Bases.

221. HONN, Francis Jerome. The Autoxidation of Drying Oils. (Daubert)

222. KAMPMEYER, Preston Morgan. The Viscosities of Aqueous Solutions of Amino Acids at 25E and 35EC, and the Temperature Dependence of Viscosity for Water and Mercury.

223. KOONTZ, Donald Eldridge. Some General Chemistry of Molybdenum(IV) and Molybdenum(V) in Non-aqueous Systems. (Nicholson)

224. LEWIS, Alexander, Jr. A Study of the Selenium Dehydrogenation of Cyclohexane. (Baldwin/Hanson)

225. LUCAS, Robert Armistead. The Chemical Nature of the Fatty Acids of *Lactobacillus arabinosus*. (Hofmann)

226. MARTIN, Charles J. The Isolation, Identification and Synthesis of Flavor Components in Reverted Soybean Oil. (Daubert)

227. MERKER, Dwight Raber. Surface Film Studies on Monoglycerides and Triglycerides. (Daubert)

228. MINFORD, James Dean. Factors Affecting the Production of Coproporphyrin in Yeast. (McCoy)

229. PODGURSKI, Harry Howard. Studies of the Adsorption of Carbon Monoxide and Hydrogen on Iron, Iron Carbides, and Iron Oxides.

230. RULON, Richard M. The Heat of Formation of Aluminum Borohydride.

231. SATTERTHWAITE, Cameron B. Low Temperature Heat Capacity and Related Properties of an Alloy of Cadium and Magnesium. (Craig)

232. SNEED, James Knight. A Study of the Reactivity of Certain Esters in the Claisen Condensation.

## 1952

233. BARKLEY, Lloyd Blair. A Study of the Synthesis of Certain Fluorinated Carbonyl Compounds. (Levine)

234. BARRETT, Wayne Thomas. A Study of Sodium Chloride-Potassium Chloride Solid Solutions. (Wallace)

235. BODE, J. Daniel. Derivative Polarography, the Two-Electrode Method. (Safford)

236. CHARLES, Robert George. Structure and Behavior of Some Chelating Agents of Analytical Significance. (Freiser)

237. DAVIS, Claude Manning. Adsorptimetric Study of Metallo-Organic Complexes in the Ultraviolet-Visible Spectral Regions. (Safford)

238. FUGGER, Joseph John, Jr. Analysis of Fatty Acid Autoxidation Products by Countercurrent Distribution Methods. (Daubert)

239. GENSER, Milton. The Heat Capacities, Entropies, and Free Energies of Formation of Lithium Borohydride and Sodium Borohydride. (Mason)

240. HALDEMAN, Robert George. Exchange of Water Vapor and Isobutane with the Combined Hydrogen of Silica, Alumina, and Silica-Alumina Catalysts.

241. HANNAN, Roy Barton, Jr. The Molecular Structure of Dicayanoacetylene. (Klug)

242. HARRISON, James Beckman. The Autoxidation of Isolinoleic Acid. (Daubert)

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982. UTZ, Tracy. Synthesis, Structural Analysis, and Reactivity of Manganese(-1) and Iron(0) and Cobalt(+1) Homoleptic Isonitrile Complexes (Cooper)

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1225. CHANDRA, Binita. Catalytic Asymmetric Synthesis of Complex Polypropionates: A Synthesis of Erythronolide B. (Nelson)

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1227. DE FORREST, Jolie. The Allenic Carbocyclization Reaction of Allene-ynes: Progress towards the Syntheses of Fumagillol and Ovalicin. (Brummond)

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1230. GUPTA, Sharad. Expanding the Complexity and Functional Diversity of Bis-amino Acid Building Block. (Schafmeister)

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1233. NOROSKI, Joseph. Collision Energy Dependence of the Reactions of Metastable Neon with Small Molecules. (Jordan/Siska)

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1237. READ, Ian. Solid Mediated Electronic Transfer in C-clamp Molecules. (Waldeck)

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1239. STONE, Katherine. Structural Insights of Oligomeric Protein Complexes by Electron Spin Resonance. (Saxena)

1240. SUI, Bin. Fluorous Mixture Synthesis and Structure Assignment of Petrocortyne A and its Stereoisomers. (Curran)

1241. TU, Wangyang. Oxidative C-H Bond Activation: Study on DDQ-induced Intramolecular Cyclization Reactions and Application to the Formal Synthesis of Neopeltolide. (Floreancig)

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1248. BAJPAI, Reena. Mixture Synthesis and Spectroscopic Analysis of the Phytophthora Mating Hormone Alpha1 and the Corrresponding Bis-MTPA Esters. (Curran)

1249. BOHN, Justin. Fabrication, Ordering, and Optical Properties of Photonic Crystals Made from Crystalline Colloidal Arrays. (Asher.)

1250. BROWN, Zachary. Synthesis and Application of Functionalized Bis-Peptides Through Hindered Amind Bond Formation. (Floreancig/Schafmeister)

1251. BYKOV, Sergei. Development of Raman Instrumentation and Methodologies for Peptide and Protein Investigations. (Asher)

1252. CHOI, Tae Hoon. Studies of Potential Energy Surfaces of Neutral, Protonated, Negatively Charged Water Clusters. (Jordan)

1253. DAVIS, Kathryn Ewing. Charge Transfer in Immobilized biomolecules: Small Steps Toward Molecular Devices. (Waldeck)

1254. HOYE, Adam. Synthesis of Natural and Non-natural Polycyclic Alkaloids. (Wipf)

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1256. KEYSER, Sandra Kim. Evaluation of the Halogen Bond and the Salt Bridge Interaction Using the Molecular Torsion Balance. (Wilcox)

1257. LAMBIE, Bradley. Making Single-cell Electroporation with Microelectrodes Predictable and Reproducible. (Weber)

1258. MILLER, Diane Mitchell. Dipole Moments and Non-covalent Bonding in Gas Phase Molecules via Rotationally Resolved Electronic Spectroscopy: Beyond the Rigid Rotor. (Pratt)

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1262. RODGERS, Patrick. Electrochemical Recognition and Transport of Ions at Liquid/Liquid Interfaces as a Principle for Biomedical and Environmental Analysis and Beyond. (Amemiya)

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1265. WHITE, Kiley. Near-infrared Emitting Lanthanide Metal-organic Frameworks with Tunable Photophysical Properties. (Rosi)

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1268. CHO, Hyo Soon. Diffusion and Solid-state NMR Studies of Structures in Model Biological Membrane. (Spence)

1269. DING, Jing. Development of a Flexible Polarizable Water Model. (Jordan)

1270. FARAJI, Amir. Convection enhanced Delivery of Macromolecules to the Brain Using Electrokinetic Transport. (Weber)

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1274. JENNESS, Glen. Understanding Intermolecular Forces: DFT-SAPT Studies on Graphite-like Acenes Interacting with Water. (Jordan)

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1278. MADISON, Tamika. Electron and Molecular Dynamics: Penning Ionization and Molecular Charge Transport. (Hutchison)

1279. MOQUIN, Keith. In Vivo Fast Scan Cyclic Voltammetry Reveals Distinct Domains of Dopamine Terminal function in the Straitum. (Michael)

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1281. NORRIS, Benjamin. Sequenced Phenylene-Vinylene Oligomers and Copolymers. (Meyer)

1282. PAN, Xiaohong. Design and Synthesis of Chiral N-Heteroclyclic Carbenes with Applications to Asymmetric Syntheses and Synthesis of Dibenzazepinones by Palladium-catalyzed Intromolecular Arylation of O-(2'-bromophenyl)Anilide Enolates. (Wilcox)

1283. SHADE, Chad. Lanthanide-containing Nanomaterials and Complexes: Utilizing Lanthanide Luminescence for a Broad Range of Biological Application. (Petoud)

1284. SHARMA, Bhavya. Investigation of the Mechanism of Action of Quinine against Malaria through Femotosecond Stimulated Raman Spectroscopy. (Asher)

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1288. VARGO, Thomas. Catalytic Asymmetric Aldol Equivalents for an Enantioselective Total Synthesis of Apoptolidin C. (Nelson)

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1297. HALE, James. Implementation of Catalytic, Asymmetric Technology towards the Total Synthesis of Apoptolidin C. (Nelson)

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1328. LI, Tao. Design and Modulation of Adenine Based Metal-Organic Frameworks and Exploration of their New Properties. (Rosi)

1329. LIN, Hsiang-Kai. Multiequilibria of Oligomeric Thermophilic DNA Polymerases. (Trakselis)

1330. LU, Chunliang. Stereoselective Synthesis of Spirooxindole Amides and Cyanohydrin Alkyl Ethers. (Floreancig)

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1332. ROSENKER, Christopher. Synthesis of Syringolin A and Functionalized Thiadiazines. (Wipf)

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1344. CUI, Yubo. Synthesis of Neopeltolide and Analogs, Sulfur-Containing Heterocycles and Enantioenriched Allylated Chromenes. (Floreancig)

1345. EVANS, Adam. Multiplexing Techniques in Quantitative Proteomics to Study Disease. (Robinson)

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1347. GRAHAM, Brian William. Mechanistic and Functional Characterization of Components of the Sulfobolus solfataricus Primosome. (Trakselis)

1348. HANEY, Conor. Development of Dynamic, Bioorthogonal Peptide Cross-Linking Methods. (Horne)

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1353. KIM, Yushin. Development of Voltammetric Double-Polymer-Modified Electrodes for Nanomolar Ion Detection for Environmental and Biological Applications. (Amemiya)

1354. KOCSIS, Laura. A Dehydrogenative Dehydro-Diels-Alder Reaction and its Application to Fluorescent Tools and Natural Product Synthesis. (Brummond)

1355. KRATZ, Eric G. Vibrational Anharmonicity in the Water-Nitrate Complex, Ice, and Gas Hydrates: Applications to Spectroscopy and Thermal Transport. (Jordan)

1356. LAMPART, Wendy. Electronic Structure Studies of the SI(100) Surface and CO2 Interacting with TIO2 Surface Cluster Models. (Jordan)

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1359. LING, Xiujun. Synthesis of Protein Folding Models and a Mollecular Torsion Balance Study of Neighboring Group Effects on Hydrophobically Driven Folding. (Wilcox)

1360. LU, Dujuan. Parallel Polymer-Based Microextraction Methods To Study Intermolecular Association And Physicochemical Properties. (Weber)

1361. NIORADZE, Nikoloz. Nanogap-Enabled Study Of Electrode Reactions By Scanning Electrochemical Microscopy. (Amemiya)

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1363. SHU, Zhan. Dopamine In The Rat Nucleus Accumbens Core: Patchwork Of Domains And Preferential Effects Of Nomifensine. (Michael)

1364. SMITH, Sara Elizabeth. Metabolism In Vitro of the Microtubule Perturbagens: Ceratamines A and B. (Weber)

1365. TAYLOR, Ian Mitch. In vivo fast scan cyclic voltammetry reveals that restricted diffusion maintains discrete dopamine domains in the dorsal striatum. (Michael)

1366. VOORA, Vamsee. Theoretical Studies of Nonvalence Correlation-Bound Anion States. (Jordan)

1367. WANG, Yang. Charge Transfer and Photovoltaics with Inorganic Semiconductor Nanoparticles. (Waldeck)

1368. XIE, Youwei. Exploring the Synthetic Application of Allylic Alcohol Isomerization. (Floreancig)

1369. YIN, Xing. Theoretical and Experimental Explorations of Charge Transfer in Small Molecules and Peptide Nucleic Acids. (Waldeck)

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1373. CUNNINGHAM, Timothy. Spin Labeling Methodologies for Measuring Precise Protein Distance Constraints. (Saxena)

1374. DEIBLE, Michael. Theory and Applications of Quantum Monte Carlo. (Jordan)

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1376. HAN, Xun. DDQ-Mediated Oxidative Oxocarbenium Ion Formation – Method Development and Natural Product Total Synthesis. (Floreancig)

1377. HEMPHILL, James. Applications of Optical Control of Oligonucleotide and Protein Function. (Deiters)

1378. HOFFMANN, Paula. Exploration of Surface Potential in Organic Semiconductors: Static Behavior, Kinetics, And Morphology. (Hutchison)

1379. JEFFRIES, Elizabeth. HsMCM8 and HsMCM9: Essential for Double-Strand Break Repair and Normal Ovarian Function. (Trakselis)

1380. KABAGAMBE, Benjamin. Electrochemical Ion-Ionophore Recognition at Membrane/Water Interfaces for Ultratrace Ion Sensing. (Amemiya)

1381. KENNEDY, Nicole. Part 1. New Mechanistic Insights and Procedures for the Preparation of Organolithium Compounds by Reductive Lithiation. Part 2. The Stereoselective Reduction of Ketones to the Most Thermodynamically Stable Alcohols Using Lithium and Hydrated Salts of Common Transition Metals. (Cohen)

1382. KWAK, Daniel. Microbial Genome Mining in Understanding Human Bacterial Pathogenesis and Cyanobacterial Natural Products Biosynthesis. (X. Liu)

1383. LI, Zhiting. Environmental and Substrate Effect On the Surface Properties of Graphene and Graphite. (H. Liu)

1384. MERLING, Everett. Synthesis and Reactions of Heterosubstituted N-Heterocyclic Carbene-Boranes. (Curran)

1385. NESBITT, Kathryn. Retrodialysis of Pharmacological Agents Mitigates Tissue Damage during Brain Microdialysis and Preserves Dopamine Activity in Surrounding Tissue. (Michael)

1386. PARKER, Matthew. Examination of "Primary", "Secondary", and "Tertiary" Structural Elements of Bis-Amino Acids: Progress toward "Fauxteins". (Waldeck)

1387. PEH, Guangrong. Oxidative C-H Activation: Convergent Fragment-Coupling approaches to Spiroacetals and the Total Synthesis of Clavosolide A. (Floreancig)

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1389. PROKUP, Alexander. Engineering DNA Computation with Unnatural Nucleotides and Protein Function with Unnatural Amino Acids. (Deiters)

1390. REINERT, Zachary. Design of Unnatural Oligomers with Protein-like Tertiary Structure. (Horne)

1391. SILVA, K. Ishara. Probing Molecular Interactions in Metal-Aβ Complexes and Supramolecular Coiled Coil Assemblies Using Electron Spin Resonance. (Saxena)

1392. THOMAS, Meryl. Syntheses and applications of small molecule inhibitors of miRNAs miR-21 and miR-122. (Deiters)

1393. YIN, Bocheng. Investigation of Reactive Oxygen Species Management in Biological and Pathological Processes by Fluorescence Imaging. (Weber)

1394. ZHANG, Chen. Peptide-Based Methods for Assembling and Controlling the Morphologies, Metrics, And Properties of Gold Nanoparticle Superstructures. (Rosi)

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1404. MENDIS, Agampodi Madu. Controlling Light in Nanoscale Dimensions. (Waldeck)

1405. NARDONE, Michael. Catalytic Asymmetric Alkylations of Latent Enolates. (Nelson)

1406. OSHABEN, Kaylyn. Modular Supramolecular Biomaterials Based on a Coiled-Coil Scaffold. (Horne)

1407. SEO, Wanji. Synthesis and Applications of One- and Two-Dimensional Polymer-Carbon Nanomaterial Composites. (Star)

1408. SHORT, Amy. Sequenced copolymers with controlled molecular weights prepared via entropydriven ring-opening metathesis polymerization. (Meyer)

1409. WALTERS, Seth. Development, validation, and use of a quantitative theory of in vivo dopamine dynamics. (Michael)

1410. WANG, Xun. Computational study of proton-disordered ice Ih. (Jordan)

1411. WELLS, Sarah. The Synthesis of 6,12-Guaianolide Analogs and Related Chemical Tools for Probing their Mechanism of NF-κB Inhibition. (Brummond)

1412. YAN, Yongzhao. Enantioselective synthesis and cycloisomerization of 1-bicyclo[1.1.0]butan-1-yl alkylamines. (Wipf)

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1414. AULETTA, Jeffrey. Stimuli-responsive Materials and Structures with Electrically Tunable Mechanical Properties. (Meyer)

1415. BASU, Upamanyu. Development of a new enantioselective reduction of ketone and fluorogenic detection of hydrogen peroxide. (Koide)

1416. CHEN, Ran. Nanoscale scanning electrochemical microscopy for study of carbon materials and high-resolution imaging. (Amemiya)

1417. CHIU, Cheuk Fai. Nano emitters: fluorimetric analysis of single-walled carbon nanotubes in biooxidation. (Star)

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1422. KANAL, Ilana. Rapid Computational Discovery of Pi-Conjugated Materials. (Hutchison)

1423. LIU, Jihe. Genetic Code Expansion for Protein Activity Control and Protein Conjugation. (Deiters)

1424. MARVIN, Christopher. Computational and Experimental Insight into Single-Molecule Piezoelectric Materials. (Hutchison)

1425. MERG, Andrea. Development of programmable peptide constructs for controlling the assembly architecture and properties of gold nanoparticle superstructures and soft materials. (Rosi)

1426. NERKAR, Swapnil. Synthesis and Reactions of Alkyl- and Aryl-Substituted N-Heterocyclic Carbene Boranes. (Curran)

1427. OU, Yangguang. Quantitative determination of ectopeptidase activity in the rat hippocampus using electroosmotic push-pull perfusion coupled to capillary liquid chromatography: a computational and experimental approach. (Weber)

1428. RICARDO FIGUEROA, Karen. Interfacial interaction of graphitic materials with water and dna origami nanostructures. (H. Liu)

1429. SALAMOUN, Joseph. Synthesis of thiophene-containing heterocycles and their application as anticancer agents. (Wipf)

1430. SASMAL, Aniruddha. Aniruddha development of catalytic glycosylation method for oligosaccharide assembly and total synthesis of acidic 🛛 alpha-dystroglycan oligosaccharides. (X. Liu)

1431. SMITH, Ashley. Quantitative Analysis of Metal Nanoparticle Ligand Shells. (Millstone)

1432. STRANEY, Patrick. Mechanisms of Metal Deposition on Gold Nanoparticle Substrates. (Millstone)

1433. TAVENOR, Nathan. Supramolecular Architectures and Mimics of Complex Natural Folds Derived from Rationally Designed  $\alpha$ -Helical Protein Structures. (Horne)

1434. TRACEY, Matthew. Fluorescence as a tool for method development, detection of trace analytes, and imaging. (Koide)

1435. VARNER, Erika. Dexamethasone Enhanced Microdialysis for Extended Intracranial Chemical Monitoring. (Michael)

1436. WASHINGTON, Michael. The impact of monomer sequence and stereochemistry on the bulk properties of repeating sequence poly(lactic-co-glycolic acid) matrices. (Meyer)

1437. WEISS, Ryan. Synthesis and Characterization of Repeating Sequence Copolyesters. (Meyer)

1438. ZHANG, Shaopeng. The effect of monomer sequence on the properties and device performance of conjugated organic semiconductors. (Meyer)

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1439. ALLEN, Thomas Harmon. New Boron–Hydrogen Insertion Reactions of Ligated Boranes. (Curran)

1440. BEALL, Edward. Comparisons of nucleic acid duplexes provide fundamental insight into long-range single molecule conductance. (Waldeck)

1441. BERQUIST, Eric. Decomposition of Intermolecular Interactions in Ab Initio Spectroscopy. (Lambrecht)

1442. BRINZER, Thomas. Ultrafast Dynamics of Carbon Dioxide in Imidazolium Ionic Liquids. (Garrett-Roe)

1443. BURROWS (PARRETTE), Lauren Claire. The Rhodium-Catalyzed Dynamic Kinetic Asymmetric Pauson–Khand Reaction of Allenyl Carboxy Esters. (Brummond)

1444. CAO, Liming. Synthetic Studies Toward Complex Polycyclic Natural Products. (Wipf)

1445. CAPLAN, Scott. Total Synthesis of Divergolides E and H and an Investigation into the Oxidative Rearrangement to Divergolides C and D. (Floreancig)

1446. ELLIS, James. Inorganic—Carbon Nanomaterial Composites for Chemical Sensing. (Star)

1447. GEORGE, Kelly. Expanding the scope of heterogeneous backbone designs to include single- and multi-domain zinc finger proteins. (Horne)

1448. HANNA, Ramsey.  $\alpha$ -Boryl Ether Fragmentation via Boronate Oxidation for Cargo Release: The Total Synthesis of Simplified Analogues of Bistramide A. (Floreancig)

1449. HARTMANN, Michael. Computational Studies of Structure and Surface Reactivity in Metal Nanoclusters. (Millstone; Lambrecht)

1450. KIM, HyoJeong. Nanoscale patterning with dna nanostructures. (H. Liu)

1451. KING, Christina. Development and Applications of Enhanced Multiplexing to Better Understand Aging, Infection, and Alzheimer's Disease. (Robinson; Weber)

1452. LANG, Feng. Enantioenriched Oxazolidinones as Synthesis Scaffolds and Efforts towards the Total Synthesis of Marineosin A. (Nelson)

1453. LAWLESS, Matthew. Site-Directed Cu2+ Labeling of DNA and Proteins. (Saxena)

1454. LIBERATORE, Richard. The Application of Ruthenium(II) and Iridium(I) Complexes to the Synthesis of Complex Organic Products. (Nelson)

1455. LYPSON, Alyssa. Engineering a  $\beta$ -Turn Mimetic Torsion Balance For Conformational Control: Design, Synthetic Strategies and NMR Analysis. (Wilcox)

1456. MCCABE, Stephanie. Enantioselective cyclopropanations of allenes and their application to the total synthesis of clavine alkaloids. (Wipf)

1457. MCFADDEN, Timothy. New Reactions with N-Heterocyclic Carbene Boranes and Amidine Boranes, and the Study of Initiators in the Radical Hydrostannation of Propargyl Silyl Ethers. (Curran)

1458. MILLIGAN, John Allen. Strain-enabled phosphination and fluorination reactions. (Wipf)

1459. ODBADRAKH, Tuguldur. Applications of the Quantum Drude Oscillator Model for Dispersion Interactions and Vibrational Spectroscopy of Charged Water Clusters. (Jordan)

1460. REN, Zhe. Ultrafast structure and dynamics of ionic liquids revealed by two-dimensional infrared spectroscopy. (Garrett-Roe)

1461. SAGLAM, Ali Sinan. Molecular Simulations of Pathways and Kinetics for Protein-protein Binding Processes. (Chong)

1462. WERNER, Halina M.. Structural and functional impacts of chemical modifications in peptides and small proteins. (Horne)