

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. Butadiene (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 Electrical 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 α -Nitronaphthalene to α -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 α -Hydroxy- β -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 Inter-ionic 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 Acetylisoegenol. 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)

1930

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

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

74. GRETTE, 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)

1933

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)

1934

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.

1936

116. FURTSCHE, 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.

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: $K_2O.Ta_2O_5.SiO_2$ 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)

1943

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 Derivatives of Urea and Substituted Ureas.

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

1944

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.

1950

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. STAPP, 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)
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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. SATTERTHWAIT, Cameron B. Low Temperature Heat Capacity and Related Properties of an Alloy of Cadmium 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 Dicyanoacetylene. (Klug)
242. HARRISON, James Beckman. The Autoxidation of Isolinoleic Acid. (Daubert)
243. KLINE, Richard Henry. Some Studies Relating to the Browning Reaction. (Dull)
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1041. KLINE MUNRO, Nicole Microfabricated Devices for Clinical Applications. (Landers/Walker)

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1044. LUO, Zhiyong. Solution Phase synthesis of Small Molecules Using Fluorous Reagents, Catalysts and Protecting Groups. (Curran)
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1046. TIAN, Huijun. Fast and Simple DNA Sequence Variation Detection Methods for Molecular Diagnostics Using Capillary and Microchip Electrophoresis. (Weber)
1047. TRIPA, Cornel-Emil. Special Adsorption and Reaction Effects at Step Defect Sites on Platinum Single Crystal Surfaces. (Yates)
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1049. VILA, Fernando. Electron Molecule Interactions. (Jordan)
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1055. BOYDEN, Mary. Investigation of Peptide Secondary Structure by Ultraviolet Resonance Raman Spectroscopy. (Asher)
1056. GABARDA, Ana. Development of New Camptothecin Analogs as Anticancer Drugs: Library Synthesis of Homosilatecans and the First Asymmetric Synthesis of Homocaptothecin and Related Homosilatecans. (Curran)
1057. HILFIKER, Mark. Developments in Asymmetric Catalysis Toward the Total Synthesis of Laulimalide. (Nelson)

1058. KNOWLES, David. Non-Thiol Inhibitors of Farnesyltransferase and Geranylgeranyltransferase-I. (Hamilton)
1059. KORTER, Timothy. Investigation of Structure, Charge Distribution, and Internal Motions in Gas Phase Solute-Solvent Clusters. (Pratt)
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1062. PETERS, Jennifer. Experimental and Theoretical Investigation of Striatal Dopamine Concentration Measured by Voltammetry and Microdialysis. (Michael)
1063. RIVKIN, Alexey. Samarium Diiodide Mediated Tandem Radical-Ionic Reactions: Model Studies Towards the Total Synthesis of Penitrem D. (Curran)
1064. SHAO, Li. Reductive Activation of Arene, Cyclohexadienyl and Tropylium Complexes of Early Transition Metals: Mechanisms and Reactivities. (Cooper)
1065. STECKEL, Janice. Theoretical Studies of Chemical Reactions on Surfaces and on Fullerene Models. (Jordan)
1066. STEPANEK, Janet Asper. The Design and Synthesis of an Artificial Phosphotyrosine Receptor. (Wilcox)
1067. UTO, Yoshikazu. Total Synthesis and Stereochemical Assignment of Lissoclinum Metabolites: Trunkamide A and Bistramide C. (Wipf)
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1071. BODLAKI, Dora. Nonlinear Optical Spectroscopy, Dynamics and Reactivity of Buried Semiconductor Interfaces. (Yates)
1072. BURLAND, Matthew. Transition Metal and Main Group Imine Methesis Catalysts. (Meyer)

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1076. METHOT, Joey-Lee. Studies in Natural Product Synthesis Aeruginosin 298-A and Diazonamide A. (Wipf)
1077. NAPPER, Andrew. Electron Transfer through Thin Organic Films and Highly Curved Donor-Bridge-Acceptor Molecules. (Walker)
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1116. LIN, Mingxiang. Application of Ion-Molecular Reactions to Structure Characterization and Thermochemical Property Measurements. (Grabowski)
1117. MALECKAR, Susan. The Synthesis, Characterization and Evaluation of Lysine-Based Dendrimers as Surfactants and Emulsifiers – Potential Artificial Blood Solubilization. (Chapman)
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1121. SKILLMAN, Charles. Hydraamphiphiles: Poly(ethylene glycol)-Supported Polylysine Dendrimers as Biocompatible Surfactants. (Chapman)

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1127. BYL, Oleg. Investigation of Adsorption, Reaction and Confinement of Molecules in Single Wall Carbon Nanotubes. (Yates)
1128. HABAY, Stephen. The Synthesis and Characterization of Water Soluble Hydronidole- Based Nanostructures of Designed Three-Dimensional Architectures. (Schafmeister)
1129. GUISE, Olivier. Production and Characterization of Novel Nanostructure Materials. (Yates)
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1152. YOU, Lingfeng. I. Synthetic efforts towards ingenol. II. Cross-conjugated Trienes and Their Application to Rapid Increase in Molecular Complexity. (Bummond)
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1158. JUNG, Moon Chul. Optimization of Photoluminescence-following Electron-transfer with Tris(2,2'-bipyridyl)Os(II) and Application to the Determination of Dopamine, Serotonin and Carbidopa in Brain Microdialysate. (Weber)
1159. LEVINS, Christopher. A Building Block Approach Toward Nanoscale Molecular Scaffolds. (Schafmeister)
1160. MAMANOV, Artem B. Modeling Ion and Water Permeation through Narrow Biological Channels. (Coalson)
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1164. WALKER, Jeremy. Development of Photonic Crystal Hydrogel Sensors for Organophosphates and Ammonia. (Asher)
1165. WASMUTH, Andrew. Utility of the Catalytic, Asymmetric AAC Reaction in Natural Product Synthesis. (Nelson)
1166. XIAO, Jingbo. From Chemical Methodologies Development to Biological Targets: Synthesis and Applications of (E)-Alkene and Cyclopropane Peptide Isosteres. (Wipf)
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1170. AMS, Mark. Intramolecularly Sensitized Precipitons: Efforts toward Metal Scavenging and Solubility Control. (Wilcox)

1171. BACA, Justin. Point of Care Sensors for Diabetes and Myocardial Ischemia. (Asher)
1172. BHAYANA, Brijesh. Diffusion and Reaction in Spos and Noncovalent Interactions in Water. (Wilcox)
1173. CHEN, Zhi. High-throughput Methods to Determine Intermolecular Association and Lipophilicity. (Weber)
1174. CUI, Jun. Vibrational Spectra and *n*-Body Decomposition Analyses of Water Clusters. (Jordan)
1175. DIRI, Kadir. Theoretical Studies of Dipole-bound Anions and Small Water Clusters. (Jordan)
1176. FORTNEY, Carol. Ligands Designed for Ruthenium Nitrosyl Transport. (Douglas)
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1180. KIM, Sunhee. Molecular Diffusion, Adsorption and Reaction on Oxide Surfaces as Studied by FT-IR. (Yates)
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1182. KONDRATYUK, Petro. Physical Adsorption of Single Wall Carbon Nanotubes. (Yates)
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1184. MC CABE (Dunn), Jamie. Application of Rh(I)-Catalysis to Natural Product Synthesis: Routes to Ovalicin and Guanacastepene. (Brummond)
1185. MIKHONIN, Aleksandr. Direct UV Resonance Raman Monitoring of Protein Folding Reaction Coordinate: Alpha-helix Melting and Formation Revisited. (Asher)
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1189. MORRIS, Mark. Using the Flowing Afterglow as a Chemical Reaction Mass Spectrometer. (Grabowski)
1190. PORSUWAN, Soraya. Measurement of Dynamics, Structures and Flexibility of Macromolecules by Electron Spin Resonance. (Saxena)
1191. SHEN, Xiaoqiang. Catalytic Asymmetric Synthesis of β -Lactones and Application to the Total Synthesis of (-)-Pironetin. (Nelson)
1192. SPARANO, Brian. The Development of Fluorescent Sensors for Specific RNA Using Chemistry and Combinatorial Biology. (Koide)
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1194. TAORMINA, Christopher. Mass Spectrometric Analysis of Biological Molecules. (Grabowski)
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1196. WANG, Kan. Development and Synthesis Applications of Olefin Isomerization-Claisen Rearrangement Reactions. (Nelson)
1197. WILLOUGHBY, Bridget. Quantitative Voltammetric Analysis in the Brain: Functional Significance of Tonic Extracellular Dopamine Levels. (Michael)
1198. XIONG, Hui. Development and Applications of Nanoelectrodes for Scanning Electrochemical Microscopy. (Amemiya)
1199. YANG, Ao. Studies of Reductive Lithiation Methods for the Preparation of Organolithium Compounds and Applications of the Palladium Catalyzed Zinc-ene Cyclization. (Cohen)
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1203. CHAKRABARTI, Subhasis. Photo-induced Electron Transfer Studies in Donor-bridge- acceptor Molecules. (Waldeck)

1204. DAVIES, KEVIN. Reaction Volumes of Photoinitiated Reactions, and Their Use as Probes of Reactive Intermediates. (Grabowski)
1205. DeFUSCO, Albert. Many Body Interactions of Neutral and Charged Hydrogen Bonded Clusters. (Jordan)
1206. ENGLUND, Erika. The Synthesis and Biology of Trx/TrxR Inhibitors and Prodrugs. (Wipf)
1207. GARNER, Amanda. Development of Fluorescein-based Fluorescent Chemosensors and Convergent Approaches in Solid-phase Organic Synthesis. (Koide)
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1213. McCARTHY, Valerie. Computational Studies of Chemical Systems: I. A Theoretical Investigation of Clathrate Hydrates. II. Conformational Potential Energy Surface of Tryptamine. (Jordan)
1214. MITALA MOTZKO, Christina. Understanding the Brain After Injury: The Development of an Electrochemical Sensor to be Used in Hypoxic Environments. (Michael)
1215. MITALA, Joseph. Investigation of Dermal Absorption of Water Fluoridation Agents as Contributors to Systemic Fluoride Exposure: Quantification of Fluoride Levels in Plasma with an Ion Selective Electrode. (Michael)
1216. MOURA LETTS, Gustavo. Application of Fluorous Methodologies for the Total Synthesis of Eight Diastereomers of Passifloricin A and 6-EPI-Dictyostatin. (Curran)
1217. PAUL, Amit. Charge Transfer through Chiral Organic and Peptide Nucleic Acid (PNA) Molecules. (Waldeck)
1218. PIERCE, Joshua. Applications of Allyl and Alkenyl Zirconocenes and Progress Toward the Total Synthesis of Tuberostemonone. (Wipf)
1219. RACCOR, Brianne. Mechanisms and Kinetics of Microtubule Perturbing Agents. (Day)

1220. WAKEFIELD, Bryan. The Synthesis of Thio-Halenaquinone and Related Analogs. (Wipf)
1221. WALLER, David. Rearrangement of Cascade Reactions: New Synthetic Methodology and the Total Synthesis of Diazonamide A. (Wipf)
1222. WAN, Shuangyi. Studies on the Structure/Reactivity Relationships of Bicyclic Epoxonium Ions Towards Tethered Nucleophiles. Efforts Towards the Total Synthesis of (+)- Lactodehydrothysiferol. Multicomponent Approach to the Synthesis of Oxidized Amides through Nitrile Hydrozirconation. (Floreancig)
1223. ZHANG, Jian. Design, Synthesis and Characterization of Novel Ligands for the Sensitization of Near-infrared Emitting Lanthanide Cations in Complexes and Nanocrystals. (Petoud)

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1224. AGARWAL, Aparna. Empirical Analysis of Single-cell Electroporation with an Electrolyte- filled Capillary. (Weber)
1225. CHANDRA, Binita. Catalytic Asymmetric Synthesis of Complex Polypropionates: A Synthesis of Erythronolide B. (Nelson)
1226. CHENGELIS CZEGAN, Demetra. Novel antennae for the Sensitization and Protection of Lanthanide Cations Emitting in the Visible and Near-infrared. (Petoud)
1227. DE FORREST, Jolie. The Allenic Carbocyclization Reaction of Allene-ynes: Progress towards the Syntheses of Fumagillol and Ovalicin. (Brummond)
1228. GOKHAN ESSIZ, Sebnem. Coarse-grained Techniques to Study Dynamics of Long-time Scale Conformational Changes of Proteins. (Coalson)
1229. FANG, Hui. Capillary-based Microreactor System Integrated with UHPLC/GC for High Throughput Screening of Catalysts for Organic Reactions. (Weber)
1230. GUPTA, Sharad. Expanding the Complexity and Functional Diversity of Bis-amino Acid Building Block. (Schafmeister)
1231. JUN, Sangmi. Measurements of Protein Folding/Misfolding using Pulsed Electron Spin Resonance. (Saxena)
1232. MUSCATELLO (Ward), Michelle. Advances in Materials Development of Responsive Photonic Crystal Hydrogels. (Asher)
1233. NOROSKI, Joseph. Collision Energy Dependence of the Reactions of Metastable Neon with Small Molecules. (Jordan/Siska)
1234. O'NEAL, Kristi. Noncovalent Interactions in Perfluorinated Media. (Weber)

1235. PAINTER, Thomas. Application of Allene-ynes to the Synthesis of Novel Carbocyclic and Heterocyclic Scaffolds. (Brummond)
1236. PONIATOWSKI, Alexander. Radical Cations in Synthesis: Utilizing an Electron Transfer- initiated Cyclization Toward the Natural Product Apicularen A. (Floreancig)
1237. READ, Ian. Solid Mediated Electronic Transfer in C-clamp Molecules. (Waldeck)
1238. SARKAR, Nihar. Alkenyl Iminium Ion in Diels-alder Reaction: Synthesis of Highly Substituted N-heterocycles. (Nelson)
1239. STONE, Katherine. Structural Insights of Oligomeric Protein Complexes by Electron Spin Resonance. (Saxena)
1240. SUI, Bin. Fluorous Mixture Synthesis and Structure Assignment of Pterocortyne 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)
1242. WALCZEK, Maciej. Synthesis and Reactions of Cyclo[1.1.0]butanes. (Wipf)
1243. WALTERS, Robert. Repeat Sequence Fluorene-Co-Methylene Polymers. (Meyer)
1244. WANG, Xiao. Fluorous Mixture Synthesis of the Stereoisomer Library of Macrolide Sch725674. (Curran)
1245. YINGLING, Adrienne. Semiconductor Nanocrystals as Novel Antennae for Luminescent Lanthanide Cations. (Petoud)

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1246. ALLEN, Brett. Novel Carbon Nanomaterials: Synthesis and Applications(Star)
1247. AN, Jihyun. Porous Metal-Adeninate Crystalline Materials: Syntheses, Structures, and Emerging Properties. (Rosi)
1248. BAJPAI, Reena. Mixture Synthesis and Spectroscopic Analysis of the Phytophthora Mating Hormone Alpha1 and the Corresponding 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 Amid 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)
1255. KAUFFMAN, Douglas. Structure versus Electrocatalytic Activity of Nanoscale Copper Oxides. (Star)
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)
1259. MORGAN, Philip. Spectroscopy of Large Molecules in the Gas Phase. (Pratt)
1260. MORETTI, Jared. Fluorous Mixture Synthesis of Sch725674 and its Fifteen Stereoisomers. (Curran)
1261. PARK, Jung-hyun. Studies on Aza-cycloaddition: Part 1. Intramolecular Ketene-imine Cycloaddition. Part 2. Iminium Ion-mediated [4+2] Cycloaddition. (Nelson)
1262. RODGERS, Patrick. Electrochemical Recognition and Transport of Ions at Liquid/Liquid Interfaces as a Principle for Biomedical and Environmental Analysis and Beyond. (Amemiya)
1263. WANG, Chenbo. Synthetic Studies on Haouamine A. (Wipf)
1264. WANG, Lei. Electrochemical Studies of Nanoscale Objects: Proteins and Inorganic Nanoparticles. (Waldeck)
1265. WHITE, Kiley. Near-infrared Emitting Lanthanide Metal-organic Frameworks with Tunable Photophysical Properties. (Rosi)
1266. YANG, Zhongyu. Copper Ion-based Electron Spin Resonance Spectroscopic Rulers. (Saxena)

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1267. BIRD, Ryan. Development of Newly Built Chirped-Pulsed Fourier Transform Microwave (CP-FTMW) Spectrometer for Studying Biomolecules in the Gas Phase. (Pratt)
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)
1271. FLEISHER, Adam. Charge Transfer by Electronic Excitation: High Resolution Measurements via Rotationally Resolved Spectroscopy in the Gas Phase. (Pratt)
1272. FU, Dezhi. I. Lewis Based-catalyzed Aldol Reaction in the Total Synthesis of Erythronolide B. II. Efforts Towards the Total Synthesis of Amphidinolide H. (Nelson)
1273. GUY, Yifat. Determination and Implications of Electroosmotic Transport in the Brain. (Weber)
1274. JENNESS, Glen. Understanding Intermolecular Forces: DFT-SAPT Studies on Graphite-like Acenes Interacting with Water. (Jordan)
1275. LIU, Lei. Structurally and Stereochemically Diverse Tetrahydropyran Synthesis via DDQ-Mediated Oxidative Carbon-hydrogen Bond Activation. (Flores)
1276. MA, Lu. UV Resonance Raman Study of Solution Environment Effect on Poly-L-Lysine Conformation and Resolution Enhancement Mechanism of Two Dimensional Correlation Spectroscopy. (Asher)
1277. MACIEJEWSKI, John. New Methods in Heterocycle Preparation. (Wipf)
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 Striatum. (Michael)
1280. NIKOLAEV, Aleksey. Dis-entangling Convolutated Electronic Spectra with High Amplitude Internal Motions. (Pratt)
1281. NORRIS, Benjamin. Sequenced Phenylene-Vinylene Oligomers and Copolymers. (Meyer)
1282. PAN, Xiaohong. Design and Synthesis of Chiral N-Heterocyclic Carbenes with Applications to Asymmetric Syntheses and Synthesis of Dibenzazepinones by Palladium-catalyzed Intramolecular 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 Femtosecond Stimulated Raman Spectroscopy. (Asher)

1285. SHIN, Byong-kyu. Electron Spin Resonance Analysis of Cu(II) Coordination in Alzheimer's Disease-related Peptides. (Saxena)
1286. STAYSHICH, Ryan. Sequence Engineering: Fine Tuning Polymer Properties at the Microstructural Level. (Meyer)
1287. THOMAS, Jessica. Structure and Dynamics of Biomolecules in the Gas Phase Using Vibrationally and Rotationally Resolved Electronic Spectroscopy. (Pratt)
1288. VARGO, Thomas. Catalytic Asymmetric Aldol Equivalents for an Enantioselective Total Synthesis of Apoptolidin C. (Nelson)
1289. WU, Mingyan. Spectroscopic Investigations of Nanoscale Aggregates and their Electron Transfer Properties in Solution. (Waldeck)
1290. YAN, Fangyong. Self-assembly of Liquid Crystals and Chiral Superstructures: From Coarse-grained to Fully Atomistic Models. (Jordan)
1291. YANG, Yanhong. Fluorous Separation and Reaction Based on Porous Alumina Membranes Modified by Perfluoropolyether Carboxylic Acid. (Weber)
1292. YEH, An-hung Edmund. Fluorous Mixtrue Synthesis (FMS) of Four Isomers of 4, 8, 12,- Trimethylnonadecanal and the Development of an NMR-based Method for Determining Configurations of Polyisoprenoid Structures. (Curran)
1293. YOUNG, Justin. High Resolution Laser Studies of Photoinduced Changes in Molecular Charge Distributions Using the Stark Effect. (Pratt)
1294. ZHANG, Kai. Fluorous Mixture Synthesis of Four Stereoisomers of the C21-C40 Fragment of Tetrafibricin and Efforts Towards Total Synthesis of Tetrafibricin. (Curran)

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1295. CLAUSEN, Dane. An Investigation in Oxidative Cation Formation: The Total Synthesis of Lactodehydrothyriferol and Synthetic Application for a Biomolecular Carbon-Carbon Bond Forming Reaction. (Floreancig)
1296. GOU, Pingping. Metal Ion/pH Detection Based on Carbon Nanotubes. (Star)
1297. HALE, James. Implementation of Catalytic, Asymmetric Technology towards the Total Synthesis of Apoptolidin C. (Nelson)
1298. HWANG, Leekyoung. Development and Mechanistic Study of a Peptide Based Methodology for the Preparation of Nanoparticle Superstructures. (Rosi)
1299. JUNG, Hyung Hoon. Synthesis of Leucascandrolide A Macrolactone & Gold-catalyzed Synthesis of Heterocycles. (Floreancig)

1300. KOFKE, Matthew. Fabrication, Characterization, and Chemical Modification of Plasmonic Devices. (Waldeck)
1301. LI, Jian. The Dependence of Degradation and Release Behavior of Polyesters on Monomer Sequence. (Liu)
1302. LIBERATORE, Melissa. Synthesis and NMR Studies of a β -Turn Mimetic Molecular Torsion Balance. (Horne)
1303. OSBOURNE, Joshua. Intramolecular [2+2] Cycloaddition Reactions of Allene-yne; Exploring the Scope, Mechanism, and Application to the Synthesis of Carbocyclic Spirooxindoles. (Brummond)
1304. OSMAN, Sami. Synthetic and Biological Studies on Analogues of FR901464 and TMC-205. (Koide)
1305. PETRONIJEVIC, Filip. Synthetic Studies on Cycloclavine, Cyclopiazonic Acid, and Other Biologically Active Indole-Containing Compounds. (Wipf)
1306. SALARI, Reza. Computational Studies of the Energetics and Dynamics of Protein-Protein Binding. (Chong)
1307. SARVER, Jessica. Probing the Structure and Dynamics of a Protein-DNA Complex Using Electron Spin Resonance. (Saxena)
1308. SOLOVYEV, Andrey. Chemistry of N-heterocyclic Carbene-Borane Complexes. (Curran)
1309. UH, Hyounsoo. Design, Synthesis, and Applications of Visible and Near Infrared Luminescent Lanthanide Complexes: From Small Molecules to Macromolecules. (Petoud)
1310. WANG, Luling. Fabrication of Crystalline Colloidal Array Photonic Crystals and Applications. (Asher)
1311. WANG, Manyan. Single-Cell Electroporation using Electrolyte-Filled Capillaries - Experimental and Modeling Investigations. (Weber)
1312. WANG, Yuexiang. Exploring Extracellular Dopamine Concentration and its Regulation on Dopamine Release by Voltammetry. (Michael)
1313. XIONG, Kan. UV Resonance Raman Studies of Peptide Folding & Peptide Fibrillization. (Asher)
1314. XU, Jiawei. Quantum Monte Carlo Study of Weakly Interacting Many-Electron Systems (Jordan)
1315. ZHANG, Guozhen. Computational studies of chemical systems: I. A Molecular Dynamics Simulation of Methane Hydrate; II. Theoretical Investigation of Water Loading on a Pyrophyllite (001) Surface. (Jordan)
1316. ZUO, Zhongfeng. DNA Replication in Archaea: Priming, Transferase, and Elongation Activities. (Trakselis)

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1317. BELL, Peter. Synthesis of p-Phenylene Vinylene Dendrons & Modification for Biomimetic Light Harvesting. (Chapman)
1318. BUCK, Eric. Synthetic Studies Towards the Synthesis of Anatoxin-A(S). (Wipf)
1319. CHEN, Yanan. Carbon Nanomaterial-Based Biosensing. (Star)
1320. DING, Mengning. Hybrid Materials Based on Carbon Nanotubes and Graphene: Synthesis, Interfacial Processes, and Applications in Chemical Sensing. (Star)
1321. GAGORIK, Adam. Charge Transport in Disordered Materials. (Hutchison)
1322. GEHERTY, Maryll. Catalytic Asymmetric Claisen Rearrangements. The Development of Ru(II)-Catalyzed Formal [3,3] Sigmatropic Rearrangements and Related Enolate Allylation Reactions. (Nelson)
1323. GEORGE ROSENKER, Kara. Regioselective Functionalizations of Heterocycles and Applications in Methodology, Medicinal Chemistry, and Natural Product Synthesis. (Wipf)
1324. GUO, Binbin. Catalytic Asymmetric Bond Constructions in Complex Molecule Synthesis. An Approach to the Asymmetric Total Synthesis of Spirolide C and the Development of Catalytic Asymmetric Enolate Hydroxylation Reactions. (Nelson)
1325. HAMMILL, Jared. Synthesis of Peptidic, Natural Product-Inspired, and Heterocyclic Molecules as Biological Probes. (Wipf)
1326. KIM, Jiyeon. Development and Applications of Nanoscale Scanning Electrochemical Microscopy. (Amemiya)
1327. KOTCHEY, Gregg. Enzyme-catalyzed Degradation of Carbon Nanomaterials. (Star)
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)
1331. QUAN, Xinfeng. Single molecule piezoelectrics and ferroelectrics: from theory to experiment. (Hutchison)
1332. ROSENKER, Christopher. Synthesis of Syringolin A and Functionalized Thiadiazines. (Wipf)
1333. RUPERT, Amy. Development of Electroosmotic Sampling for the Investigation of Galanin-Degrading Ectopeptidase Activity in the Hippocampus. (Weber)

1334. SONG, Chengyi. Development of Peptide-Based Methods for Controlling the Structures, Compositions, and Properties of Complex Nanoparticle Superstructures. (Rosi)
1335. SPRACHMAN, Melissa. Applications of Small Heterocycles: Oxetanes as Additives and Cosolvents and Oxazolines as Linkers for Controlled Release from Silica Nanoparticles. (Wipf)
1336. TANG, Yifan. Carbon Nanomaterial and their Electrochemical Applications. (Star)
1337. WU, Juanfang. Monitoring the Metabolism of Thiols/Disulfides in the Extracellular Space of the Organotypic Hippocampal Slice Cultures by Online Microfluidic Analysis Coupled with Electroosmotic Sampling. (Weber)
1338. XU, Hongjuan. Electroosmotic Sampling and its application to Determination of Ectopeptidase Activity in Organotypic Hippocampal Slice Culture when Coupled with HPLC-EC. (Weber)
1339. ZHANG, Hanmo. Synthetic Studies of Meloscine Alkaloids. (Curran)
1340. ZHANG, Hong. Teflon AF Composite Materials in Membrane Separation and Molecular Recognition in Fluorous Media. (Weber)
1341. ZWIER, Matthew. Efficient Computer Simulations of Protein-Peptide Binding Using Weighted Ensemble Sampling. (Chong)

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1342. BAUER, Robert John. Assembly and Mechanism of Action of *Sulfolobus solfataricus* DNA Replication Complexes. (Trakselis)
1343. CAO, Zhiyun. Understanding Immunosenescence in Aging-Related Diseases With Quantitative Proteomics. (Robinson)
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)
1346. GAO, Yang. Regulating Pre-mRNA Splicing and Transcription using Small Molecules for Cancer Therapy. (Koide)
1347. GRAHAM, Brian William. Mechanistic and Functional Characterization of Components of the *Sulfolobus solfataricus* Primosome. (Trakselis)
1348. HANEY, Conor. Development of Dynamic, Bioorthogonal Peptide Cross-Linking Methods. (Horne)
1349. HAY, Everett Ben. Sigmatropic Rearrangements Of Divinylcyclopropanes And Cyclizations Involving B-Elimination Of Sulfonyl Radicals. (Curran)

1350. HONG, Zhenmin. UV Resonance Raman Spectroscopy Study of Peptide Conformational Transitions. (Asher)
1351. JI, Ming. Copper-Ion Based Electron Spin Resonance Sheds light on Protein-DNA Interaction. (Saxena)
1352. KARALTI, Ozan. Correcting Density Functional Methods For Dispersion Interactions Using Pseudopotentials. (Jordan)
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)
1357. LENGYEL, George A. Strategies for Peptide Backbone Modification in Protein Beta-Sheets. (Horne)
1358. LI, Xiben. Endeavors in Methodology Development and Natural Product Total Synthesis. (Curran)
1359. LING, Xiujun. Synthesis of Protein Folding Models and a Molecular 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)
1362. PAN, Xiangcheng. Chemistry And Applications Of N-Heterocyclic Carbene Boranes. (Curran)
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)
1370. ZHAO, Yong. Synthesis, Characterization, And Enzymatic Degradation of Nitrogen-Doped Carbon Nanomaterials. (Star)

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1371. BERTONAZZI, Joanne. Catalytic Asymmetric Construction of β -Amino Acid Precursors and Their Use in an Iterative Method Towards β -Peptide Synthesis. (Nelson)
1372. CHEN, Xialing. Optical and Electrical Properties of Organic Semiconductors: Experiment and Simulation. (Hutchison)
1373. CUNNINGHAM, Timothy. Spin Labeling Methodologies for Measuring Precise Protein Distance Constraints. (Saxena)
1374. DEIBLE, Michael. Theory and Applications of Quantum Monte Carlo. (Jordan)
1375. GOGICK, Kristy. Design, Synthesis, And Characterization of Lanthanide-Based Near-Infrared Dendrimer Complexes and Metal-Organic Frameworks for Novel Modalities in Optical Biological Imaging. (Petoud)
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)
1388. PEREZ, Rachel. Efforts towards the Macrocyclic Core of Marineosin A and Development of Pyrrolidine-Based Scaffolds for Diversity-Oriented Synthesis. (Nelson)
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-A β 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)
1395. ZHOU, Feng. DNA nanostructure based nanofabrication. (H. Liu)

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1396. BLOOM, Brian. Using Inorganic Nanoparticle Surface Passivation as a Tool for New Approaches in Photovoltaics. (Waldeck)
1397. BROWN, Kalyn. Optical Control of Signal Transduction and Other Cellular Processes. (Deiters)

1398. GRAFF, Brittney. Photo-induced Electron Transfer in Molecular Systems and Nanoparticle Assemblies. (Waldeck)
1399. GU, Liqing. Development of proteomics approaches towards characterizing oxidative modifications. (Robinson)
1400. KOWALLIS, William. Computational Studies of Biological Ion Channels. (Coalson)
1401. LAMONT, Daniel. Optical and Mechanical Characterization and Analysis of Nanoscale Systems. (Waldeck)
1402. LIU, Chong. Postsynthetic control of functionality and porosity in metal-organic frameworks using covalent, coordinative, and electrostatic interactions. (Rosi)
1403. MARBELLA, Lauren. NMR Characterization of Metal Nanoparticle Formation, Structure, and Performance. (Millstone)
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 entropy-driven 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- κ B Inhibition. (Brummond)
1412. YAN, Yongzhao. Enantioselective synthesis and cycloisomerization of 1-bicyclo[1.1.0]butan-1-yl alkylamines. (Wipf)
1413. ZHANG, Jing. In Vivo Monitoring of Neurotransmitter Serotonin and Dopamine in The Striatum of Freely-Moving Rats with One Minute Temporal Resolution by Online Microdialysis Coupled with Capillary Hplc. (Weber)

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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 bio-oxidation. (Star)
1418. GARES, Katie. Uv resonance raman investigation of explosives' uv photochemistry. (Asher)
1419. GROSKREUTZ, Stephen. Improving liquid chromatography performance: novel developments in preconcentration, instrumentation and optimization. (Weber)
1420. JACKSON, Paul. Leveraging an Allenic Pauson-Khand Reaction to Synthesize 6,12-Guaianolide Analogs with a Tunable α -Methylene- γ -lactam Electrophile. (Brummond)
1421. JOHNSON, James. Synthetic studies on protein kinase d, botulinum neurotoxin a1 light chain, and nuclear androgen receptor modulators, and efforts towards the total synthesis of 9-desmethylpleurotin. (Wipf)
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 α -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 α -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. α -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 β -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)

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1463. ANKENBRUCK, Nicholas. Detection and Perturbation of MicroRNAs using Synthetic Chemical Probes. (Deiters)
1464. ARCHER, Kaye. Proton Transfer in Hydrated Molecular Ions. (Jordan)
1465. ARORA, Simran. Allele-Specific Engineering Of Methyllysine Writers And Readers For Controlling Chromatin-Dependent Processes. (Islam)
1466. BOLT, Daniel. Synthesis and Reactions N-Heterocyclic Carbene Boranes. (Curran)
1467. BRESSIN, Robert. Development Of Antidotes For Organophosphorus Poisoning And Of Anticancer Splicing Regulators. (Koide)
1468. BURKERT, Seth. Metal Nanoparticle-Decorated Carbon Nanocups for Drug Delivery. (Star)
1469. CARDER, Evan. Synthetic Efforts Toward P97 AAA+ ATPase and P75 Neurotrophin Receptor Inhibitors. (Wipf)
1470. CRAWFORD, Scott. Surface Chemistry-Mediated Photoluminescence of Small Diameter Coinage Metal Nanoparticles. (Millstone)
1471. GASPERICH, Kevin. Calculation of Intermolecular Interactions via Diffusion Monte Carlo. (Jordan)
1472. GRIMM, Haley. Creation of Peptide-based Oligomers and Tailored Surfaces as Piezoelectric Biomaterials. (Horne)
1473. HUFZIGER, Kyle. The Development of Photonic Crystal Optics and Wide-field Raman Imaging Spectrometers for Trace Explosive Detection. (Asher)
1474. JAKUBEK, Ryan. Insights into the Structure and Hydrogen Bonding Interactions of Polyglutamine Peptides Using UV Resonance Raman Spectroscopy. (Asher)
1475. JOHNSTON, Kathryn. Characterizing, Controlling, and Using Silver Nanoparticle Surface Chemistry. (Millstone)
1476. LUO, Ji. Optical And Small-Molecule Control of Protein Function Through Genetic Code Expansion. (Deiters)
1477. LUO, Tianyi. Metal-Organic Framework Platforms: Diversity-Oriented Synthesis and Application-Directed Custom Design. (Rosi)
1478. MORALES RIVERA, Cristian. Computational Studies of Metal Free C-H Bond Functionalization. (Liu, P.)

1479. NARO, Yuta. Small Molecule Inhibition of microRNA-21 & Chemical Approaches to Manipulating the Ubiquitin-Proteasome System. (Deiters)
1480. NOWALK, Jamie. The Importance of Minor Sequence Alterations on the Hydrolysis Behaviors of Degradable Polyesters. (Meyer)
1481. PUNEKAR, Soumitra Mokashi. Peptide-Based Molecular Transformations for Tuning the Structure and Properties of Chiral Gold Nanoparticle Single Helices. (Rosi)
1482. ROBBINS, Elaine. Advancing Methods for In Vivo Neurochemical Monitoring. (Michael)
1483. SALIM, Muhammad. Understanding the Effects of Environmental Exposure on Surface Related Properties of Graphene, Graphite, and Rare Earth Oxides. (Liu, H.)
1484. SHAO, Huiling. Computational Investigations of Ruthenium-Catalyzed Olefin Metathesis and Rhodium-Catalyzed Olefin Hydroboration Reactions. (Liu, P.)
1485. SHIELDS, Erin. Liquid Chromatography Stationary Phases Made Using the Thiol-yne Reaction. (Weber)
1486. SMITH, Natasha. Development of 2-Dimensional Photonic Crystal Sensors and Pure Protein Organogel Sensing and Biocatalytic Materials. (Asher)
1487. SPORE, Alexander. Tuning Application And Adjusting Properties Of Metal-Organic Frameworks Via Small Modifications. (Rosi)
1488. WERLING, Keith. Mechanical deformation of aperiodic organic systems in response to electrostatic fields: molecular piezoelectricity. (Lambrecht)
1489. WILSON, Rachael-Anh. In vivo Measurement of Ectopeptidase Activity Using Electroosmotic Perfusion- Microdialysis. (Weber)
1490. XU, Anqin. Chemistry Meets DNA Nanostructures. (Liu, H.)

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1491. ANDERSON, Shelby. Investigation of the Addition of a Kinetic Bimolecular Fragment Coupling Step to the Re2O7-Catalyzed Transposition and Cyclization of Allylic Alcohols and Examination of the Effects of Acetonitrile. (Floreancig)
1492. BURCHICK, Joseph. Functional Group Transposition of Bicyclo[5.3.0]decadienones Afforded by the Allenic Pauson-Khand Reaction. An Approach Toward the Total Synthesis of (-)-Dehydroleucodine. (Brummond)
1493. CHAN, Linus (Wei Chuen). Total Synthesis of the Reported Structure of Stresgenin B, its Structural Elucidation Using DFT Calculations, and Visible-Light-Mediated Functionalizations of Electron-Deficient Olefins. (Koide)

1494. COURTNEY, Taylor. Optochemical Approaches for Controlling Protein Dimerization and Protein Function. (Deiters)
1495. DUVALL, Samuel. Development of methods to study bacterial cell signaling in vivo. (Childers)
1496. FRASSO, Michael. Synthetic Approaches to Cardiolipin Analogs. (Wipf)
1497. GAMBLE JARVI, Austin. New Directions for Cu²⁺ Labeling of Biomolecules to Determine Structure, Conformation, and Flexibility. (Saxena)
1498. GHOSH, Shreya. Site-Directed Cu²⁺ Labeling Methodologies for Obtaining Distance Constraints in Proteins and DNA. (Saxena)
1499. HORNER, Anthony. The effect of temperature in chemical separations: 1) reversed-phase liquid chromatography and 2) molecular-receptor interactions. (Weber)
1500. HURST, Justin. Adventitious Hydrocarbon Adsorption and Its Effect on the Solid-Liquid Interface. (Liu, H.)
1501. JOHNSON, Clinton. Using Ultrafast Vibrational Spectroscopy for A Comprehensive Understanding Of Structural And Rotational Motions For Water To Protic Ionic Liquids. (Garrett-Roe)
1502. KAIRALAPOVA, Arailym. Theoretical Approaches for Studying Non-Valence Correlation-Bound and Correlation-Assisted Anion States of Molecules and Molecular Clusters. (Jordan)
1503. KOWALLIS, Kimberly. Regulatory Mechanisms of a Bacterial Multi-Kinase Network. (Childers)
1504. KUMBHARE, Rohan Surendra. Development of small molecule modifiers of microRNA functions and targeted activation of caged morpholino oligomers. (Deiters)
1505. MILLER, Nathaniel. Exploration of Nanoscale Electromechanical Couplings. (Hutchison)
1506. MULDOON, Patrick. Rational Control of Structure, Composition, and Function in Metal-Organic Frameworks. (Rosi)
1507. NGO, Khanh. Theoretical and Experimental Improvements for Fast Microdialysis. (Weber)
1508. OMER, Humair. Computational Study of the Ni-Catalyzed C–H Oxidative Cycloaddition of Aromatic Amides with Alkynes. (Brummond; Liu, P.)
1509. PHAM, Dianne. Fluorescence detection of platinum, copper, and hydrogen peroxide in live systems. (Koide)
1510. SWISHER, Jordan. Preparation, Properties and Applications of Sequence-Controlled Polymers. (Meyer)
1511. WHITE, David. Rational Nanocarbon Composites for Novel Sensing and Catalysis. (Star)

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1512. AFEKE, Cephas. Re2O7-Mediated Spirocyclic Ether Synthesis from Acyclic Precursors: Synthesis And H₂O₂-Mediated Targeted Cellular Release Of A Pederin Analogue. (Floreancig)
1513. BAI, Ruobing. Application of DNA-based Nanofabrication in Nanoelectronics and Effect of Contaminations on the Surface Potential of Graphite. (Liu, H.)
1514. BALLA, Ryan. Advanced Nanoscale Approaches for Electrochemical Imaging and Sensing. (Amemiya)
1515. BIAN, Long. Application Of Machine Learning in Carbon Nanotube-Based Biosensing. (Star)
1516. DARRAH, Kristie. Chemical Tools to Control Protein Expression, Function, and Degradation. (Deiters)
1517. EIKEY, Emily. Understanding and Leveraging Atom Arrangement in Materials: Synthetic Control and Computational Theory Development (Millstone)
1518. ERBAY, Tuğçe Gülşen. Reactivity of Targeted Covalent Inhibitor Fragments and Transition Metal-Catalyzed Alkene Functionalization Reactions. (Liu, P./Brummond)
1519. GAMBINO, Adriana. Structure-activity relationship of pyridinium oximes as therapeutics for organophosphorus nerve agent poisoning. (Koide)
1520. GAN, Xing Yee. Understanding the Emergence, Tunability, and Performance of Plasmonic Copper Selenide Semiconductor Nanoparticles. (Millstone)
1521. GHOSH, Supriya. Chiral Induced Spin Selectivity Effect: Fundamental Studies and Applications. (Waldeck)
1522. HE, Xiaoyun. Photoluminescence Properties of Carbon Nanomaterials during Coronation and Biodegradation. (Star)
1523. HWANG, Sean. Applications of Carbon Nanotube based Chemiresistors for Breath Analysis and Hydrogen Storage Sensing. (Star)
1524. KELSHEIMER, CJ (Carli). Ultrafast Vibrational Spectroscopy of Carbon Dioxide in Polymers and Ionic Liquid-Polymer Composite Materials. (Garrett-Roe)
1525. KEVLISHVILI, Ilia. Computational Studies of Transition Metal-Catalyzed Olefin Functionalization and Cross-Coupling Reactions. (Liu, P.)
1526. KIM, Mina. The Effects of Electrical and Mechanical Modulation on the Chemical Reactivity of Graphene. (Liu, H.)
1527. MASKREY (Lewis), Taber. Synthetic Studies of Heterocyclic and Bioactive Agents. (Wipf)

1528. MITRA, Sunayana. Ultrafast Time-Resolved Spectroscopy Probes Carboxylate Metal Binding and Proton Transfer Kinetics in Condensed Phase. (Garrett-Roe)
1529. PETROFF, Christopher. Exploration and Optimization of Novel Piezoelectric Devices. (Hutchison)
1530. POHORILETS, Ivanna. Kinetic Study and Development of Ligand-Accelerated Click Reactions and Synthesis of a Tetrahydrofuran Analog of FR901464 (Koide)
1531. RERICK, Michael. Development and Optimization of Analytical Methods to Study Neurochemistry Using Capillary Liquid Chromatography. (Weber; Michael)
1532. SHAO, Wenting. Protein Detection using Semiconducting Single-Walled Carbon Nanotube-Based Field-Effect Transistors. (Star)
1533. TERRAB, Leila. Small Molecule Inhibitors of the Artemis Endonuclease and Thiadiazines as HSP70 Agonists. (Wipf)
1534. TOLMAN, Nathan. Adventitious Hydrocarbon Adsorption on Carbon and Gold Surfaces and Its Effect on Surface Properties. (Liu, H.)
1535. WINKELBAUER, Joseph. Regulating Reactivity and Selectivity of a Dehydro-Diels–Alder Reaction of Vinyl Heteroarenes Informed by Mechanism and Application towards the Synthesis of Photovoltaic Materials. (Brummond)
1536. ZHANG, Chao. Engineering And Application of Bacterial Two-Component Systems. (Childers)
1537. ZHOU, Yicheng. Imparting Dynamics and Stability to Peptide-Directed Gold Nanoparticle Assemblies. (Rosi)

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1538. ARORA, Swati. Understanding the Dynamics of Ion Locking in Doubly-Polymerized Ionic Liquids. (Liu, H.)
1539. ASARI, Austin. Tethering as a Strategy for the Re2O7-catalyzed Stereoselective Synthesis of Bis-spiroketals and Synthesis of Cyclic Dinucleotide Prodrugs for STING Activation. (Floreancig)
1540. COLLINS, Michael. Investigation of the Effect of Phase Separation on RNA Metabolism in Bacteria. (Childers)
1541. DEIHL, Eric. Abstract Expanding the Scope of the Asymmetric Allenic Pauson–Khand Reaction Towards the Synthesis of Thapsigargin and Analogues. (Brummond)
1542. DEMPE, Daniel. α -Methylene- γ -Lactams: Thiol Reactivity, Bioactivity, and Applications Towards Targeted Covalent Inhibitors. (Brummond)

1543. FOLMSBEE, Dakota. Evaluating and Improving the Viability of Machine Learning to Solve Chemical Problems. (Hutchison)
1544. FU, Yue. Computational Studies of Catalytic Organic and Bioorganic Reactions. (Liu, P.)
1545. GEORGIEVA, Zheni. Chiral Perovskites: Generating and Investigating Chiro-optical Response in Inorganic and Hybrid Perovskite Nanomaterials. (Waldeck)
1546. HENDERSON, Elva. Theoretical Techniques for the Study of Bonding, Vibrations, and Structures of Water-Ion Clusters. (Jordan)
1547. HUANG, Jun. Effects of Polymer Chemistry on the Properties of Polyelectrolyte Complex Coacervates. (Laaser)
1548. JANG, Kyeongwoo. Development of Two-Dimensional Photonic Crystal Hydrogel Sensors for Biomolecular Detection. (Asher)
1549. KAVOOSI, Samuel. Development of Small-Molecule and Nucleoside Based Probes Targeting Epigenetic and Metabolic Enzymes. (Islam)
1550. KURAPATI, Niraja. Nanoscale Study of Adsorption-Coupled Electron Transfer Using Scanning Electrochemical Microscopy. (Amemiya)
1551. LAWRENCE, Jean-Marc. Environmentally Benign Method Development Towards the Synthesis of Oxygen-Containing Heterocycles. (Floreancig)
1552. MIRZAEI, Saber. Template-Assisted Synthesis of Supramolecular Nanotubes, Anion Receptors, and Molecular Gloves. (Hernández Sánchez)
1553. PROVIANO BURROWS, James. Synthetic Studies Toward Epidithiodiketopiperazine MPC1001 and 2-Pralidoxime Analogs. An Exploration in Birch Reduction, Oxidation, and N-Alkylation. (Koide)
1554. RODRIGUEZ DEL REY, Freddy. Synthesis of Nitrogen-Containing Heterocycles Through Catalytic Dehydrative Cyclization and Carbon-Hydrogen Oxidative Cycloaddition Reactions. (Floreancig)
1555. RYAN, Amy. Chemical and Optochemical Control of Cell Signaling. (Deiters)
1556. SANTHOUSE, Jacqueline. Effects of Backbone Modification on Proteomimetics. (Horne)
1557. SCHULTE, Zachary. Synthesis and Deliberate Tuning of Composition, Structure, and Properties of Multicomponent Metal-Organic Frameworks. (Rosi)
1558. SCOTT, Valerie. An Integrated Chemical Genetic Approach to Probe Biological Methylation. (Islam)
1559. SINGEWALD, Kevin. Site directed labeling strategies to probe protein dynamics and in vivo distance constraints. (Saxena)

1560. TIVON, Yaniv. Chemical Tools to Covalently Modify Proteins and Cells. (Deiters)
1561. WAGNER, Shana. Beyond Histones: Discovery of Lysine-Mediated Protein-Protein Interactions via Site Specific Photochemistry. (Islam)
1562. YANG, Yejin. Improving Electrochemical Detection in Capillary Liquid Chromatography. (Weber)
1563. ZHOU, Wenyuan. Optical Control of CRISPR/Cas9 and Kinase Function. (Deiters)

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1564. BARDHAN, Anirban. Conditional Control of Oligonucleotides in Gene Expression and DNA Computation, and Targeted Protein Inactivation (Deiters)
1565. BOGETTI, Anthony. Shooting For The Moon With Weighted Ensemble Applications. (Chong)
1566. BOGETTI, Xiaowei. Integrating EPR and computational modeling to measure protein structure and dynamics. (Saxena)
1567. BROOKS, Sydney. Effects of Peptide Sequence in Controlling the Assembly Propensity and Structural Morphology of Helical Gold Nanoparticle Superstructures. (Rosi)
1568. CHEN, Yimin. Computational Study on Site-Selectivity of DMDO-Mediated C–H Hydroxylation (Liu, P.)
1569. CLEVER, Caleb. Charge and Spin Transport in Organic Systems: From Molecules to Materials. (Waldeck)
1570. ELSEY (Hiener), Danielle. Accelerated Computational Discovery and Evaluation of Conjugated Organic Materials. (Hutchison)
1571. GODA, Sarah. Advances in the Development of Photonic Crystal Hydrogels as Versatile Biomolecular Sensors (Asher)
1572. HEATH (Schettler), Shelby. Synthetic Approaches Towards The Development Of Protein Mimetics And The Study Of Post-Translational Cyclic Imide Formation. (Horne)
1573. HUO, Zijian. Experimental and Computational Investigation of Mechanochemical Activation in Triblock Copolymers. (Laaser)
1574. JANOSKO, Chasity. Conditional Activation of Protein Function (Deiters)
1575. LU, Yiyang. Studies Of Enantiospecific Interaction Between Chiral Molecules And Magnetized Surfaces. (Waldeck)
1576. MILLER, Jenna. Oxidative C-H Bond Functionalization in the Synthesis of Nitrogen- and Oxygen-Containing Heterocycles. (Floreancig)

1577. MONCURE, Paige. The Role of Polymeric Ligand Shells in the Diffusive Behavior of Nanoparticles in Hydrogels. (Millstone/Laaser)
1578. MULVEY, Devin. Bridging the Gap: Demonstrating the Connection Between Non-Valence Correlation-Bound Anions and Image Potential States Using a One-Electron Model (Jordan)
1579. RAO, Shilpa Ravindra. Structural and functional studies of cysteine-rich proteomimetic scaffolds (Horne)
1580. ROPPEL, Ryan. Deciphering UV Spectroscopy on Earth and Mars (Asher)
1581. SAPPA, Sushma. Regulation of DNA Demethylation: Investigating the Effect of Catalytic Space Engineering. (Islam)
1582. SIMON, Zoe. Photocatalytic synthesis of metallic nanoparticles and their applications (Millstone)
1583. TASKER, Nikhil. Photoflow Preparation of PTP4A3 Inhibitors, and Concise Total Syntheses of Ergot and Clavine Alkaloids. Doctoral (Wipf)
1584. TOMARES, Dylan. A tale of two condensates: From studying the mechanisms of natural bacterial condensate assembly to developing a novel synthetic condensate. (Childers)
1585. UPADHYAY, Shiv. Theoretical Treatment of Weakly Bound Fermions to Atoms, Molecules, and Clusters. (Jordan)
1586. WEI, Jimeng. Role of Chirality in Electron Spin Filtering, Water Splitting, and Electron Transfer. (Waldeck)
1587. WESALO, Joshua. Optical and small-molecule control of protein and nucleic acid function. (Deiters)
1588. WESTBAY, James. Development of Aptamer-Actuated Two-Dimensional Photonic Crystal Hydrogel Sensors. (Asher)
1589. YANG, Xiaole. Biochemical Study of a New Family of Isomerocyclases in the Biogenesis of Hapalindole Type Alkaloids and Chemical Genetic Approach to Studying Bacterial Chromosome Segregation (Childers)
1590. ZHU, Jin. Enantio- and regioselective propargylic and allylic functionalization (Wang)