

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 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)

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. (Laufer/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)
- 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. 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)
244. PILAT, Howard Lionel. Preparation of Characterization of Surface Active Compounds. (Daubert)
245. WILT, Myron H. The Pyridylethylation of Ketones. (Levine)
246. ZABOR, Robert Charles. Hydrocarbon Adsorption of Synthetic Silica-Alumina.

1953

247. BURSON, Sherman LeRoy, Jr. A Contribution to the Synthesis of the Carbon Analogue of Biotin. (Hofmann)
248. COFFER, Lynn Wallace. Low Temperature Heat Capacities and Related Properties of Pure Magnesium, MgCd₃ and Mg₃Cd. (Wallace)
249. GOLDBERG, Newton Nathaniel. A Study of the Acylation of Certain Methylated Tar Bases. (Levine)
250. JOHNSTON, William Dwight. The Influence of Structure on the Stability of Chelates of Some Substituted 8-Hydroxyquinolines and Analogous Reagents. (Freiser)
251. MINN, James. Studies of Corn Oil Phosphatides. (Daubert)
252. SAX, Sylvin M. The Chemical Nature of the Fatty Acids of *Lactobacillus casei*. (Hofmann)
253. SILBERT, Leonard Stanton. The Heats of Formation and Transition of Isomeric Monoglycerides. (Daubert)
254. STEINBACH, John Franklin. Acetyl Acetone as an Analytical Extraction Agent. (Freiser)

1954

255. BEHNKE, Walter Eric. Contributions to the Chemistry of Cyclopropane Compounds. (Hofmann)
256. CARUSO, Sebastian Charles. Surface Film Studies in Isomeric Diglycerides. (Daubert)
257. FLINN, Richard Alfred. The Thermal Expansivities and Kinetic Behavior of Some Magnesium-Cadmium Alloys in the Order-Disorder Range. (Wallace)
258. JOHNSON, Bernard Henry. Microdetermination of Fluorine in Organic Compounds: An Amperometric Approach. (Safford)
259. MATTHEWS, Joseph S. Structure of the Dimeric Acid Produced during the Carbonation of Grignard Reagents from Primary Propargylic Bromides. (Wotiz)

260. MELNICK, Laben Morton. Extraction of Metal Thiocyanate Complexes with Tri-n-Butyl Phosphate. (Freiser)

261. SHORR, Leonard Marshall. The Mechanism of Methyl-Silicon Cleavage of Certain Substituted Carboxylic Acids in Sulfuric Acid. (Freiser)

262. SWICKLIK, Leonard Joseph. The Kinetics of Hydrogenation of Triglycerides. (Daubert)

1955

263. AVEN, Manuel Hans. An Adiabatic Specific Heat Calorimeter for the Temperature Range of 4EK to 15EC: The Atomic Heat of Titanium. (Craig)

264. COARK, William Sidney. The Low Temperature Atomic Heats of Copper, Silver, and Gold; and Vanadium in the Superconductive State. (Wallace)

265. DIETZ, Paul Luther, Jr. Studies on the Linear Crystallization Velocity of Sodium Acetate in Supersaturated Solutions. (Hollingsworth)

266. GREENFIELD, Harold. The Reaction of Acetylenic and Allenic Compounds with Cobalt Carbonyls. (Wotiz)

267. INGRAM, Alvin Richard. Contributions to the Synthesis of Peptides. (Hofmann)

268. JOHNSTON, William Vanderbilt. An Adiabatic Vacuum Calorimeter for the Range 15E to 290EC and the Heat Capacities and Related Properties of Mg_3Cd and $MgCd_3$. (Wallace)

269. KRIER, Carol Alnoth. Low Temperature Heat Capacity of Potassium and Na_2K . (Craig)

270. McCOY, William Harrison. The Free Energies and Entropies of Formation of Potassium Chloride-Potassium Bromide Solid Solutions and the Behavior of Aqueous Potassium Chloride- Potassium Bromide Mixtures Relevant to the Harned Rule. (Wallace)

271. McGRATH, Thomas Frederick. A Study of the Reactions of Certain Halogenated Acids and Esters with Organolithium Compounds. (Levine)

272. OSUCH, Carl. The Alkylation and Acylation of Certain Tar Bases.

273. REICH, Henry Ernest. Pyridylethylation of Amines.

274. TAUSIG, Fred. The Chemical Nature of Fatty Acids of Microbiological Origin.

275. TABER, Joseph John. An Investigation of the Possibility of the Separation of Triglycerides by Countercurrent Distribution.

276. WALTER, Joseph Lawrence. The Evaluation of Some Related Heterocyclic Compounds as Analytical Reagents for Metals.

1956

277. DESSY, Raymond Edwin. The Kinetics and Mechanism of the Reaction of 1-Alkynes with Organomagnesium Compounds. (Wotiz)
278. DRUSHEL, Harry Vernon. Spectrophotometric Investigation of the Iodine Complexes of Some Organic Sulfur Compounds. (Safford)
279. DURAND, Harry Walter. A Study of D-Glucose Polymerization. (Dull)
280. HALL, W. Keith. Catalytic Hydrogenation over Copper-Nickel Alloys.
281. HARKINS, Thomas Regis. The Chelating Tendencies of Some Compounds of Biochemical Interest. (Freiser)
282. HARRISON, George Conrad, Jr. A Thermodynamic Study of Silver Ion Complexes with Polynuclear Hydrocarbons. (Freiser)
283. KEDER, Wilbert Eugene. Some Thermodynamic and Flow Properties of Aqueous Solutions of Two Amino Sulfonic Acids. (Frank)
284. MAGNUS, George. The Reactions of Vinylpyridines with Active Hydrogen Compounds. (Levine)
285. MANCUSO, Dale Emmet. The Synthesis and Adsorption Spectra of Some Allenic Compounds. (Wotiz)
286. OROCHENA, Salvador Francisco. Contribution to the Synthesis of Lactobacillic Acid.
287. PLUMMER, William Allan. Some Thermodynamic and Flow Properties of Aqueous Solutions of Cis- and Trans- 1,4-Aminocyclohexanecarboxylic Acids. (Frank)
288. WAITE, Thomas Richard. Structures of Phase Relations in the Tantalum-Hydrogen System. The Heat Capacities of Tungsten and of a Hydride of Titanium in the Temperature Range 4EK to 15EK.
289. WESTNEAT, David French. I. Design and Construction of an Automatic Recording Unit for a Beckman Model DU Spectrophotometer. II. A Study of the Reaction of Calcium with Certain Hydroxyanthraquinones.
290. YAVORSKY, Paul Michael. Molecular Parameters from Light Scattering in Relation to Intrinsic Viscosity.
291. ZABETAKIS, Michael George. An Automatic Adiabatic Calorimeter Shield Control. Low Temperature Heat Capacity and Related Properties of Zinc.

1957

292. KRISHEN, Anoop. A Systematic Study of Solvent Extraction with Acetylacetone. (Freiser)

293. MacIVER, Donald Stuart. Alkaline Adsorption on Silica, Alumina, and Silica-Alumina Catalysts. (Emmett)
294. McKAVENEY, James Patrick. Use of Acetylacetone Extractions in Ferrous Analysis. (Freiser)
295. MERRILL, Howard Emerson. The Reaction of Grignard Reagents with α,β -Unsaturated Acids: Highly Branched Unsaturated Malonic Acids. (Wotiz)
296. MILLER, Alfred. Certain Aspects of the Chemistry of 3-Picoline. (Levine)
297. STERRETT, Kay Fife. Kinetics and Heat Capacities of the Magnesium-Cadmium System. Heat Capacity and Related Properties of Tantalum.
298. THOMPSON, Peter Trueman. The Activity Coefficient of LiCl in Dilute Aqueous Solution at 25°C. (Frank)
299. WEN, Wen-Yang. Some Thermodynamic and Flow Properties of the Aqueous Solutions and the Hydrates of Two Tetra-n-butyl Ammonium Salts. (Frank)
300. YOHO, Clayton West. The Synthesis of Long-Chain Fatty Acids Containing a cis-Cyclopane Ring.
- 1958**
301. ABEND, Phillip Gary. The Reactions of Some Methylene Derivatives with Ketene Diethylacetal. (Dull)
302. ATWOOD, Gilbert Richard. Heat Capacities for the System Benzenecyclohexane. (Dunkelberger)
303. BEHUN, John David. Certain Aspects of the Chemistry of Methylpyrazine. (Levine)
304. LEAKE, William Walter. The Reactions of Certain Active Hydrogen Compounds with Aromatic and Heterocyclic Halides. (Levine)
305. TIRPAK, Michael Robert. The Kinetics and Mechanism of the Reaction of Dicobalt Octacarbonyl with Some Acetylenic Compounds.
306. WOLLAM, John Stanley. Some Thermal and Magnetic Properties of MgNi₂.
- 1959**
307. CHENEY, Graeme Everett. The Structure and Stabilities of Some Metal Complexes of Biochemical Interest. (Fernando)
308. COLEMAN, Anna Margaret. Dielectric Polarization of Some Organosilicon Compounds in Benzene Solution. (Freiser)
309. DISHART, Kenneth Thomas. The Reactions of Certain Halogenated Acids, Esters, and Ketones with Organometallic Compounds. (Levine)

310. ERDMAN, William Charles. The Racemization of Optically Active Coordination Compounds. (Douglas)
311. FLEISCHER, David. A Thermodynamic Study of Some Factors Affecting the Stability and Solubility of Metal Chelates. (Freiser)
312. FRIES, Ralph Jay. A Study of the Thermodynamics and Nuclear Magnetic Relaxation Times of Adsorbed Gases. (Frank)
313. GALLI, Guido. The Electronic Specific Heats of Some Nickel-Aluminum Alloys. The Low Temperature Heat Capacity of Ta₂H. (Craig)
314. HEDENBURG, John Frederick. Metal Extraction Characteristics of Certain Carboxylic Acids. (Freiser)
315. KARTEN, Marvin J. The Interaction of Carboxylic Acids, Their Salts, Esters, and Anhydrides with Organometallic Compounds. (Levine)
316. NASSAU, Kurt. Magnetic Properties of Intermetallic Compounds Between Lanthanons and First Period Transition Metals.
317. RAYNOLDS, Stuart. The Alkylation and Acylation of Certain Tar Base Derivatives.
318. ROSS, Norman Charles. Certain Aspects of the Chemistry of Methyl Vinyl Ketone.
319. SHOMBERT, Donald James. The Luminescence and Chemistry of Excited Electronic States of Acriflavine (Rosenberg).
320. SMITH, George Byron. Kinetics of Competitive, Consecutive Reactions with Application to Reactions of Lithium Aluminum Hydride and Methylmagnesium Bromide with 1-Hexyne. (Hollingsworth)

1960

321. EMERICK, Edwin Roy. A Study of the Applicability of Certain Electrometric Methods of Fluoride Ion Analysis. (Safford)
322. JANKOWSKI, Stanley John. Solvent Extraction of Group II Metal 8-Quinolinolates. (Frank)

1961

323. CARLSON, Gerald Leroy. Vibrational Spectra and Molecular Structures of Some Inorganic Compounds: ReO₃Cl, ReO₃Br, Si(NCO)₄, and Ge(NCO)₄. (Miller)
324. CHU, Shirley Shan-Chi Yu. The Crystal and Molecular Structure of Chloranil. (Jeffrey)
325. FENG, Pao-Kuo. Metal Chelates of 4-Hydroxybenzothiazole and Its Derivatives. (Fernando)
326. KAMAL, Marwan Rasim. Certain Aspects of the Chemistry of Some Pyrazine Derivatives. (Levine)

327. KAMATH, G. Sanjiv. Studies of Long Range Order and Some Structural Characteristics of Cadmium-Rich Alloys in the Mg-Cd System. (Wallace)
328. KAUFMAN, Harold A. Certain Aspects of the Oxidation of Organic Compounds by Alkaline Sodium Hypobromite Solution. (Levine)
329. MENDELSON, Morris Aaron. Irreversible Autoxidation of Metal Chelates. (Arnett)
330. SABA, William George. Heat Capacity and Related Thermodynamic Properties of Ta₂H and DyCO₅. (Wallace)
331. SANGUIGNI, John Alexander. A Study of the Arylation of Certain Active Hydrogen Compounds. (Levine)
332. SAX, Martin. The Crystal Structure of Dihydromalvalic Acid, and the Theory of the F₃ Synthesis. (Jeffrey)
333. SPILNERS, Ilgvars Janis. Synthesis of Hydrocarbons from Thiophene Derivatives. (Levine)
334. SUCHANEC, Richard Robert. The Direct Microdetermination of Oxygen in Organic Compounds. (Safford)
335. WU, Ching-Yong. Basicities of Ethers and Phenols. (Arnett)

1962

336. BAER, William Kern. The Infrared and Raman Spectrum of VBr₃, AsBr₃, PO(NCO)₃, P(NCO)₃, ClC(CN)₃, and the (C(NC)₃)-ion. (Miller)
337. BIEHL, Edward Robert. The Reactions of Ortho- and Para-Chlorotoluene with Certain Active Hydrogen Compounds and Alkali Amides. (Levine)
338. BRUSHMILLER, John George. The Stereochemistry of Optically Active Cobalt (III) Complexes. (Douglas)
339. BUSHICK, Ronald Dale. The Thermodynamics of Ionization in Aqueous Sulfuric Acid. (Arnett)
340. GRANQUIST, William Thomas. Rotational Diffusion, Flow Relaxation and Birefringence Decay of Some Clay Mineral Sols. (Hollingsworth)
341. LAUTERBUR, Paul Christian. Steric Effects on C¹³ Nuclear Magnetic Resonance Spectra of Substituted Benzenes. (Frank)
342. MOORE, Richard Anthony. Certain Aspects of the Base-Catalyzed Condensations of Fluorinated Esters and Ketones. (Levine)
343. NAQVI, Saiyid Naseem Ahmad. Chelating Properties of Certain Nitrogen Containing Heterocyclic Compounds. (Fernando)

344. SHEPPARD, Chester Stephen. Certain Aspects of the Chemistry of Acridine. (Levine)
345. SUMNER, George Gardner. The Crystal Structure of Dicobalt Octacarbonyl.
346. SUNDARALINGAM, Muttaiya. The Crystal and Molecular Structures of 3-Benzoylanthranil (2-Phenylisotatogen) and 2,5-Dichloroaniline.
347. SWIFT, Harold E. Part I: Model Compounds of Cobalt(III) Amino Acid Coordination Compounds. Part II: Catalytic Racemization of Optically Active Coordination Compounds.
348. ZANOWICK, Richard Louis. Constitution and Magnetic Susceptibility of the Vanadium- Hydrogen System. Magnetic Properties of Gadolinium, Europium and Ytterbium Hydrides.

1963

349. BAUM, Burton Murry. The Acylation and Alkylation of Certain Tar Base Derivatives. (Levine)
350. DIMMIG, Daniel Ashton. The Acylation of 2,4- and 2,6-Lutidine. (Levine)
351. HEPFINGER, Norbert Francis. A Study of the Reactions of Nitroso Compounds with Olefins. (Griffin)
352. HOPKINS, Paul Donald. Distribution Studies of Metal Complexes of β -Diketones. (Douglas)
353. KLINGENSMITH, George Bruce. The Bromination of Aryl Carbinols. (Arnett)
354. MASSENA, Charles William. The Electronic Specific Heats of the Pseudo-Binary System TiFe₂-ZrFe₂. (Craig)
355. NELSON, Harry, Jr. The Spectra and Chelating Properties of Certain 2-Picolyl Ketones. (Safford)
356. PADMANABHAN, Gandharvakkotta R. Potentiometric Studies of Acids and Bases in Acetonitrile. (Coetzee)
357. SKRABEK, Emanuel Andrew. Structural and Magnetic Properties of Some Cubic Laves Phase Intermetallic Compounds Containing Lanthanides. (Wallace)
358. SMALLEY, Edmund Walter. The Effects of Solute-Solvent Interactions on the Reactivities of Some Grignard Reagents and Dialkylmagnesiums. (Hollingsworth)
359. SU, Yao-Sin. A New Series of Electrogenerated Reagents and a Study of Certain Electrode Methods for the Determination of Fluoride Ion. (Safford)
360. WEINSTEIN, Sidney Irwin. Magnetic Properties of Terbium-Yttrium, Dysprosium-Yttrium, and Holmium-Yttrium Solid Solutions. (Wallace)
361. WITSCHARD, Gilbert I. Formation of Cycloalkenes and Benzyldenecycloalkanes by Means of the Wittig Reaction. II. The Infrared Spectra of Phosphonium Salts. (Griffin)

1964

362. ANDERSON, John Norton. Activity Coefficients and the Base Strengths of Some Oxygen and Sulfur Compounds in Aqueous Sulfuric Acid. (Arnett)
363. BELITSKUS, David Lee. The Crystal Structure of Peroxypelargonic Acid, the Molecular Structure of 2,4,6-Tri(p-chlorophenyl)-s-triazine, and Single Crystal Studies on Some Clathrates of Tetra-(4-methylpyridine)-nickel(II) and Cobalt Dithiocyanates. (Jeffrey)
364. CHAKRABARTTY, Sujit Kumar. Certain Aspects of the Chemistry of Tetramethylpyrazine. (Levine)
365. CUNNINGHAM, Glenn Patrick. Single Ion Conductivities in Acetonitrile and Nitromethane. 1. Evaluation of Single Ion Conductivities in Acetonitrile and Nitromethane. 2. Conductometric Acid-Base Titrations in Acetonitrile. (Coetzee)
366. FARRELL, John Joseph. Magnetic Properties of CeFe₂, LuNi₅, and Some 1:2 Intermetallic Compounds of Lanthanide Metals with Nickel and Cobalt. (Wallace)
367. HAINES, Roland Arthur. Studies of Optically Active Cobalt(III) Complexes. (Douglas)
368. HSIEH, Hsien-Hsuan. The Ultraviolet Absorption Spectra of Triarylphosphine Oxides and Aryltriphenylphosphonium Salts. (Griffin)
369. HUMPHRIES, Frederick Stephen. Dimerization and Photo-Reactivity of Acriflavine. (Rosenberg)
370. KERWIN, Robert Eugene. The Osmotic and Activity Coefficients of Some Alkali Halides in Heavy Water at 25°C. (Frank)
371. LIPOWITZ, Jonathan. Part I: 1,5-Hydride Transfer During Aromatic Diazonium Ion Decomposition. Part II: Amide Hydrolysis Assisted by a Neighboring Amide Group. (Cohen)
372. LIU, Cheng Tan. Spectral Studies of Cobalt(III) Complexes Containing Optically Active Ligands. (Douglas)
373. MACH, George William. Structure and Solvent Effects on Aqueous Acidity Functions. (Arnett)
374. MCGUIRE, David Kelty. Properties of Electrolytes in Nitriles and Acetone as Solvents. (Coetzee)
375. NOTARO, Vincent Anthony. A Study of the Reactions of Trivalent Phosphorus Compounds with Benzene. (Griffin)
376. OSBORNE, David Richard Duke. Part I: Certain Aspects of the Chemistry of 2,4,6-Trimethyl-S-Triazine. Part II: The Acylation of 2-,3-, and 4-Picoline N-Oxide and 2,6-Lutidine N-Oxide. (Levine)
377. RESNIK, Robert Kenneth. Studies of Metal Complexes of Ligands Containing Olefinic Linkages. (Douglas)

378. SHOUP, Robert Donald. Selective Reducing Capabilities of Carbon Monoxide-borane Derivatives. (Carter)
379. SINGERMAN, Gary Maurice. Conjugate Addition Reactions with Vinylpyrazine. (Levine)
380. SODD, Vincent Joseph. Semiconductor Detector Studies of Recoils from 15-MeV Deuterons on C12. (Wolke)
381. STREM, Michael Edward. The Prototropic Activity of 2,5-Dimethylpyrazine and Certain of Its Derivatives. (Levine)
382. WALLINE, Robert Elm. Structural and Magnetic Properties of Some 1:1 Intermetallic Compounds of Lanthanide Metals with Nickel, Copper, and Silver. (Wallace)
383. WU, Victor Yuwen. The Crystal Structures of Aluminum Carbide, Aluminum Carbonitrides and *para*-chlorophenol. (Jeffrey)
384. YINGST, Ralph Earl. Part I: The Polarographic Determination of the Formation Constants of Some Copper(I) Complexes. Part II: Studies of Coordination Compounds Formed from Ligands Containing Multiple Bonds. (Douglas)
- 1965**
385. BOLLINGER, Joseph Martin. Synthesis and Properties of Crowded Benzenes. (Arnett)
386. DAVISON, Raymond Bernard. Reactivity of Tolyphosphine Oxides and Tolyphosphonates. (Griffin)
387. DOUTY, Charles Frank. A Novel Enthalpimetric Approach to Acid-Base Thermodynamics. (Arnett)
388. FAGER, John Henry. Reactions of Aromatic N-Oxides with Carboxylic Acid Derivatives. (Cohen)
389. GORDON, Myra A. Intramolecular Condensations of Imides. B. Proton Magnetic Resonance Spectra of Organophosphorus Compounds. (Griffin)
390. KISSELL, Fred. Magnetic Properties of Pr-La and Pr-Y Alloys and Some Intermetallic Compounds of Lanthanide Metals with Aluminum Nickel and Gold. (Wallace)
391. LaCOUNT, Robert Bruce. A. Photolysis of Aryl Ketones. B. Photolysis of Organophosphorus Compounds. (Griffin)
392. MARTIN, Donald James. A. Acidities of Organophosphorus Acids. B. Stobbe Condensation of Triethyl Phosphonosuccinate. (Griffin)
393. MARTIN, Kenneth R. Part I: δ B- ρ B Bonding in Tri-2-Heteroarylphosphine Oxides. Part II: Homolytic Arylation of Heteroaromatic Systems. (Griffin)
394. NATOWITZ, Joseph Bernard. Cross Sections and Isomeric Yield Ratios for (d,p) and (d,n) Reactions. (Wolke)

395. PEMENT, Frederic William. (D,r) and (d,2n) Reactions with 0-15 MeV Deuterons. (Wolke)
396. RASAIHAH, Jayendran Kumaraswamy. The Activity and Osmotic Coefficients of Zinc Sulfate in Water and Heavy Water at 25°C. (Frank)
397. SMITH, Herbert Lee. Part I: Effects of Electrolytes on the Optical Activity of Cobalt (III) Complexes. Part II: Studies of Some Metalloporphyrins and Metallophthalocyanines. (Douglas)
398. SOMMERS, Jay Richard. A. Alkylation and Acylation of Some Pyrazene Derivatives. B. Certain Condensations Effected by 2,6 Dimethoxyphenyllithium. (Levine)
399. TURNER, Ralph Waldo. The Crystal and Molecular Structure of Some Metal Ion-Aromatic Complexes. (Amma)
400. VLASSE, Marcus. The Study of the Mercuric Iodides Crystalline System and the Crystal Structure of D-Galactone-1,4-Lactone. (Jeffrey)

1966

401. BURKE, John Joseph. Solute Thermodynamics in Aqueous Acid and Salt Solutions. (Arnett)
402. CAMPION, James J. Comparison of Interactions of Ions with Acetonitrile and Water. (Coetzee)
403. CHURI, Ramesh Harishchandra. Preparation and Rearrangement of α - Epoxyalkylphosphonates. (Griffin)
404. FELDMAN, Martin Louis. Part I: Studies in the Synthesis of Fused Nitrogen Heterocycles, Part II: The Reaction of the Methylsulfinyl Carbanion with 1,2-Diarylethylenes. (Danishefsky)
405. JANKOWSKI, Edmond John. Nitrous Acid Deamination of Some α -Decalylamines. (Cohen)
406. KAUFMAN, Marvin Leonard. Photolytic Decomposition of Triarylphosphines and Tetraarylphosphonium Salts. (Griffin)
407. KIM, Sung-Hou. The Crystal Structures of α -D-Glucuronolactone, α -L-Sorbic acid and α -D, L- arabinose. (Jeffrey)
408. MESSMER, Garry George. A Single Crystal Study of Some Transition Metal Complexes. (Amma)
409. OBRYCKI, Richard. Photoinitiated Arylation of Trialkyl Phosphites. (Griffin)
410. PATRICK, George Robert. Part I: A Study of the Prototropic Activity of the Isomeric Picolines and Lutidines, Part II: The Synthesis of Cyclopropylpyridines. (Levine)
411. POPPE, Wassilij. Concerning Relaxation of Flow and Flow Birefringence. (Hollingsworth)
412. SANDA, Joseph Charles, Jr. Strain Energies and Reactivities of Crowded Benzenes. (Arnett)

413. SONG, Il Hwan. Decarboxylations Induced by Pyridine and Pyridine n-Oxide. (Cohen)
414. VRANKA, Robert George. A Crystallographic Structure Study of Some Metal-X Bonds; X=C,S,N. (Amma)
415. ZARILLA, Richard F. New Instrumentation for Analysis by High Frequency Techniques. (Safford)

1967

416. ABEL, Alan Wilson. Structural Magnetic Properties of $TiCr_2$, $ZrCr_2$, $HfCr_2$ and the YFe_2 - YCO_2 and $TiCo_2$ - $ZrCo_2$ Alloy Systems. (Craig)
417. ABRAMS, Rochelle Braunstein. Quantum Mechanical Study of Potential Energy Surfaces of Small Molecular Systems. (Ellison)
418. AOYAGI, Masaya. Low Temperature Thermal Characteristics of Some Intermetallic Compounds Containing Lanthanides. (Wallace)
419. BERMAN, Helen Miriam. The Crystal Structures of 14N and δ -D-Manitol, Galactitol, Methyl- 14C - D-Glucopyranoside, and Hydroxyurea.
420. BYRNE, William Edward. Part A: The Proton Magnetic Resonance Spectra of Substituted Quinolines and Meisenheimer Complexes. Part B: The Proton Magnetic Resonance Spectra of Hydroxy- and Alkoxy-Substituted Quinolones. (Griffin)
421. CARFAGNA, Paul Darwin, Magnetic Properties of Some 2.17 Intermetallic Compounds of Lanthanide Metals with Nickel.
422. CAVANAUGH, Robert John. Part I. Cycloaddition Reactions of Enamines. Part II. Double Annelation by Means of 2-Vinyl-6-Methylpyridine. (Danishefsky)
423. HALL, Stephen Kenneth. Circular Dichroism of Some Optically Active Rhodium(III) and Cobalt(III) Complexes. (Douglas)
424. HUNTER, Frederick Douglas. The Crystal Structures of Dipotassium Carbonate Trihydrate and D, L-Arabitol. (Jeffery)
425. LEMMON, Donald H. The Infrared and Raman Spectra, and Structure of: a) $P(C/CH)_3$, $As(C/CH)_3$, $Sb(C/CH)_3$ b) $N/C-C/C-C/C-C/N$ c) Cl_3SiSH , Cl_3SiCN . (Miller)
426. PANTONE, Richard. N-Lithio-cis-2,6-Dimethylpiperidine as a Condensing Agent in Organic Reactions. (Levine)
427. STEY, George Carl. The Distributions of Single Particle Parameters: Implications for the Structure of Liquid Water. (Frank)

428. SWIFT, Wayne Martin. Magnetic Characteristics of Laves Phases Containing Two Lanthanide Metals with Aluminum.
429. MURTY, Tanikella Sundara Sita Rama. Hydrogen Bond Studies Using Solution Calorimetry. (Arnett)
430. WELLS, James Robert. Amalgam Coulometry at Constant Current. (Safford)
431. WYSOCKI, Donald Chester. Preparation and Proton Magnetic Resonance Spectra of Vinylphosphonates. (Griffin)
432. ZORETIC, Philip Andrew. Part A -Prototropic Reactions Involving 4-Methylpyrimidine. Part B - Indirect Oxidations with Dimethyl Sulfoxide. (Levine)

1968

433. BRINN, Ira Mark. Electronic Structures and Acidities in Excited States of Substituted Naphthalenes. (Rosenberg)
434. CHU, Shih-Chen Chang. The Crystal Structure of Lythridine Methiodide and Phase Problem Studies of Para-Nitro Peroxy Benzoic Acid. (Jeffrey)
435. DUMAS, David Howard. The Synthesis of Patchouli Alcohol. (Danishefsky)
436. HAYES, Michael William. Photoconductive Cells as Detectors for Visible Photometry. (Safford)
437. JEUCELL, Charles Lou. Medium Effects on 2-Phenyl-2-Methylpropyl (Neophyl) Chloride and Its Solvolysis Transition State. (Arnett)
438. KIVIAT, Frederick Elliot. Infrared and Raman Spectroscopic Studies of a) $(CF_3)_2C=C=O$, $(CF_3)_2C=N=N$, $(CF_3)_2C=NH$; b) $C_4H_4O_2$ (Clyclobutane-1,3-Dione) c) CH_3CH_2Cl , CH_3CD_2Cl , CD_3CH_2Cl , CD_3CD_2Cl . (Miller)
439. LIN, Ching-Yu. Stereochemistry of Triethylenetetraamine-amino Acid Cobalt(III) Complexes. (Douglas)
440. MOYE, Alfred Leon. Reactions of Carbon Monoxide-Borane with Selected Lewis Bases and Related Reactions with Diborane. (Carter)
441. SPRINGER, Charles Halcomb. Transference Number Measurements in Acetonitrile. (Coetzee)
442. VAN SAUN, Carolyn Wood. Influence of Ligand Structure on the Circular Dichroism Spectra of Cobalt(III) Complexes. (Douglas)
443. WOLFORD, Wardella Alice. A Study of Photosystem II in *Porphyridium cruentum*. (Rosenberg)
444. WORKMAN, Harry Joseph. Flow Birefringence of Suspensions of Rigid Particles with Three Mutually Perpendicular Planes of Symmetry. (Hollingsworth)

445. YUNG, Ying-Mae. I. Preparation of Organoplatinium(IV) Compounds. II. Complexes of Transition Metal Ions with Pentamethyldiethylenetriamine. (Straub)

1969

446. BRATTON, Raymond Frederick. The Structure, Vibrational Spectrum and Selected Reactions of Nitrogen Trichloride. (Carter)

447. DEETS, Gary Lee. The Nature of the Intermediates in the Reactions of Carboxylic Acid Anhydrides with N-oxides of the Pyridine Series. (Cohen)

448. GANGADHARAN, Subrahmanya. The Study of (d,n) Reactions by Recoil Spectrometry. (Wolke)

449. HARJU, Philip Herman. Spectroscopic Properties of Proflavine Complexes with DNA. (Rosenberg)

450. HO, Shih-Ming. Part I. A Close Packing Scheme for Crystal Structures of Elements and Inorganic Compounds: Part II. Stereoisomerism of Some Triethylenetetraamine Amino Acid Cobalt(III) Complexes. (Douglas)

451. KOPPEL, Gary Allen. Part I. Reaction of Methyl -Vinylacrylate with Cyclic -Dicarbonyl Compounds. Part II. A. The Annulation of -Dicarbonyl Systems with 1,4-dichloro-2-butanone B. Reaction of Chloromethyl Vinyl Ketone with N-Pyrrolidino-cyclohexene. (Danishefsky)

452. KRZEMINSKI, Stephen Francis. Magnetic Susceptibilities and Mossbauer Spectra of Some Tris (N,N-disubstituted Dithiocarbamate) Iron(III) Compounds. (Straub)

453. LEON, Burke. Magnetic Coupling and Phase Boundaries for Some C15 and C22 "Pseudo Binary" Alloys Containing Lanthanides. (Wallace)

454. MARICONDI, Chris S. The Iron Bond to Porphyrins. (Straub)

455. MATTHEWS, Margaret Eleanor. Photocyclization of Substituted Valerophenones and 5-aryl- 2-Pentanones. (Griffin)

456. MIGDALOFF, Bruce Howard. A Novel Approach to Steroid Total Synthesis: Elaboration of Fused Ring Systems by the Agency of β -Chloroethyl Vinyl Ketone. (Danishefsky)

457. MOCK, Nancy Heatwole. A Nuclear Magnetic Resonance Study of Hexaborane(10). (Carter)

458. MOYER, Robert Allan. High Resolution Studies of 17-MeV Deuteron Induced Reactions on Mercury and Lead Isotopes.

459. RUPERT, Joseph Paul. Thermodynamic and Transport Studies of the Dilute Aqueous Solutions of Two Tetraalkylammonium Chlorides. (Frank)

460. SCHAMBACH, Robert Arthur. Copper-Quinoline Decarboxylations. (Cohen)

461. SIMON, Joseph Matthew. Polarography and Medium Effects in Sulfolane. (Coetzee)

462. STEIN, Richard Lincoln. The Magnetic and Thermal Properties of $\text{MnBr}_2 \cdot 4\text{H}_2\text{O}$ and Praseodymium Metal. (Butera)

463. WILKS, Phillip Howard. Preparation and Characterization of New Ionic Derivatives of Decaborane (14). (Carter)

464. VISSER, Jacobus Pieter. Structure-Function Studies with Ribonuclease S. (Hofmann)

465. VOLKAR, Martin A. The Study of Equilibrium Charge State Distribution of Boron Ions and Non-Equilibrium Charge State Distribution of Carbon Ions by Recoil Spectrometry. (Wolke)

1970

466. BECKMAN, Charles Albert. The Electronic Specific Heats of the Pseudo-Binary System $\text{MgCu}_2\text{-MgZn}_2$. (Craig)

467. BOTELHO, Antonio Diogo Carvalho. Deamination of Trans-2-Decalyl-Amines. (Cohen)

468. BRYSON, Thomas Allan. Studies Related to the Total Synthesis of Camptothecin. (Danishefsky)

469. DEVIA, Jorge Enrique. The Urey-Bradley Force Field as Applied to Selected Nitrogen Compounds. (Carter)

470. DIEHL, Richard Curtis. Stripping and Pickup Reactions Between Masses 90 and 120. (B. Cohen)

471. FIELDING, Ivor Rene. Flow and Electrical Birefringence of Suspensions of Rigid Particles -- Effect of Particle Interaction and Polydispersity. (Carter)

472. FROEBE, Larry Ryan. Proton Nuclear Magnetic Resonance Studies of Dimagnetic Metal Chelates and Circular Dichroism of Some bis-Diamine Cobalt(III) Complexes Containing Carbonate, Oxalate, or Malonate Ion. (Douglas)

473. HARNEY, Brian Michael. Infrared and Raman Spectroscopic Studies of: a) $(\text{HC}=\text{C})_2\text{CO}$ and $(\text{N}=\text{C})_2\text{CO}$ b) Cyclo-C₆F₁₂. (Miller)

474. JENKINS, Jerry Alan. The Mechanism of Decarboxylation Induced by Pyridine n-Oxide. (Cohen)

475. KOGUT, Leonard Stanley. Nuclear Magnetic Resonance Study of Decaborane (14) and Selected Decaborane (14) Derivatives. (Carter)

476. LEVINE, Robert Tobin. Some Applications of Natural and Magnetically Induced Circular Dichroism to Copper(II) Complexes and Rhodium(II) Acetate. (Douglas)

477. ROVNYAK, George Charles. Multiple Electrophilic Capabilities of Activated Cyclopropane Compounds: Diethyl-2-Vinylcyclopropane-1,1-Dicarboxylate. (Danishefsky)

478. RUSSELL, Randall Lee Clifford. Some Applications of Natural and Magnetically Induced Circular Dichroism to Cobalt(III) Complexes. (Douglas)

479. TORRENS, Manuel Angel. Bonding in Iron Porphyrin Systems Studies by Mossbauer Spectroscopy. (Straub)

1971

480. BRENNAN, Bernard John. Circular Dichroism Studies of Some Mono- and Bis- Diaminecobalt(III) Complexes with 1-Cyclohexanediamine, 1-Propylenediamine, or Trimethylene- diamine and Some Related EDTA Type Ligands. (Douglas)

481. BROWN, Frederick Ronald. Infrared and Raman Spectroscopic Studies of: A) C₈H₈ and C₈D₈ (Tetramethylenecyclobutane-d₀) and Tetramethylenecyclobutane-d₈; B) C₆H₈ and C₆D₈ (1,3-Dimethylenecyclobutane-d₀ and 1,3-Dimethylenecyclobutane-d₈); C) M(C/C-CH₃)₄ with M=Si, Ge, or Pb and M(C/C-CH₃)₃ with M=P, As, or Sb; D) M(C/C-CF₃)₄ with M=Si, Ge, and Sn. (Miller)

482. CAPWELL, Robert J. Infrared and Raman Spectroscopic Studies of: A) The Ring-Puckering Vibration of Cyclobutane and Cyclobutane-d₈; B) Octachloro-, Octafluoro-, and Octahydroxycyclobutane; C) PF₅; D) Cyclobutane and Cyclobutane-d₈ Vibrational Assignments. (Miller)

483. CONNAMACHER, Martha Scott. A Theoretical Investigation of Lattice Vibrations in Magnesium Dihydride. (Schumacher)

484. CRAWLEY, Lantz Stephen. Elaboration of Fused Ring Systems by the Agency of β - Chloroethyl Vinyl Ketone. (Danishefsky)

485. DAUGHENBAUGH, Norman E. A New Method of Determining Molecular Weights with a Gas Density Balance Gas Chromatographic Detector and a Study of Its Response Characteristics. (Carter)

486. DELLENBAUGH, Geoffrey Goddard. A Study of Cobalt(III) Complexes Containing Optically-Active Unidentate Ligands. (Douglas)

487. EGGLEER, James Frederick. Studies Directed Toward the Total Synthesis of Camptothecin. (Danishefsky)

488. FIELDING, Thomas Edgar. Nuclear Magnetic Resonance Studies of Icosahedral Carboranes and Selected Icosahedral Carborane Derivatives. (Carter)

489. HOWARD, Carleton James. Kinetics of Some Gas Phase Ion-Molecule Reactions Involving Water Vapor. (Kaufman)

490. JONES, Frederick Mason, III. The Ionization of Alkyl Amines in Aqueous Solution: Thermodynamic Dissection of a Classic Anomaly. (Arnett)

491. KADUNCE, William M. Part I: A Study of the Interaction of Pyridine, n-Butyllithium, and Carbonyl Compounds. Part II: Phototropic Reactions of the Isomeric 2,3-, 2,4-, 2,6-lutidines with a Series of Perhalogenated Esters. (Levine)

492. KU, James Chen. Thermodynamic and Transport Studies of the Dilute Aqueous Solutions of Two Tetraalkylammonium Bromides. (Frank)
493. LIN, Chorng-Lieh. Oscillator Strengths of OI and NI Resonance Triplets and Reactions of Metastable N Atoms. (Kaufman)
494. LOONEY, Quentin Lorenzo. Magnetically Induced Circular Dichroism of Nickel(II) Complexes. (Douglas)
495. MARTIN, Robert A., Jr. Electrodeless Conductance Measurements Using Toroidal Inductors. (Safford)
496. MATHEU, Federico Manuel. A Semiempirical Scaled Molecular Orbital Theory. (Ellison)
497. MAZZOLA, Eugene Passudette. Micellar Catalysis in Phosphonate Ester Hydrolysis. (Cohen)
498. McCRUMB, John LeRoy. Kinetics of the Gas Phase Reaction of Atomic Oxygen and Ozone. (Kaufman)
499. NAGEL, Arthur A. Part I: A bis-Annulation by Means of 6-Vinyl-2-Picoline, the Synthesis of D-Homoestrone. Part II: The Aldolization of C7 Substituted 2,6 Heptanediones. (Danishefsky)
500. PASEK, Eugene A. Synthesis and Properties of Iron(III) and Iron(IV) Complexes of N,N- Distributed Dithiocarbamates. (Straub)
501. PERKINS, James. Infrared and Raman Spectroscopic Studies of: A) The Vibrational Spectrum of Cyanogen Azide, N₃CN. B) Tetrachloro- and Tetrabromo-Cyclopropene. C) Trisilylamine: Vibrational Isotope Effect and Planarity of the Skeleton. (Miller)
502. QUATTRONE, Alfred Joseph. Synthetic and Activity Studies of S-Peptide Analogs in the Ribonuclease S System and Affinity Chromatography of S Protein. (Hofmann)
503. SAHU, Saura Chandra. Quantum Accumulation and Activation Kinetics of the Photosynthetic Oxygen Evolution. (Rosenberg)
504. SCHILLER, Elliott Joel, Jr. A Thermodynamic Study of the Magnetic and Thermal Properties of the Phase Transition in Antiferromagnetic MnC@4HO. (Butera)
505. SENOR, Larry Edward. Nuclear Magnetic Resonance Studies of Selected B₉H₁₃ Ligand and B₁₀H₁₂@S(CH₃)₂ Derivatives. (Carter)
506. SORBO, Roger A. A Pre-Equilibrium Charge State Study of Boron Ions from the ¹²C(d,ⁿ) ¹⁰B Reaction in Elemental Carbon (Wolke)
507. SWICKER, Francis A. Nuclear Magnetic Resonance Studies of the Octadecaborane (22) Isomers and Related Compounds. (Carter)

508. THOMPSON, Alan Wetherbee. Low Temperature Thermal Properties of Some Intermetallic Compounds Containing Lanthanides. (Wallace)

509. VonNIEDA, George Edward. Bonding and Magnetism of Tris (n,n-Disubstituted Dithiocarbamate) Iron(III) and Tris (o-alkylxanthato) Iron(III) Complexes. (Straub)

510. WILLIAMS, Ruth Ann. First Reactions in Acetonitrile. (Coetzee)

1972

511. BERNINGER, Ronald William. Part One: Reactions of Quinolane and Quinolane N-oxide in the Presence of Copper Salts. Part Two: Decarboxylation of Cuprous Carboxylates in Quinoline. (Cohen)

512. BERTOZZI, Richard J. Proton Transfer Reactions in Sulfolane as Solvent. (Coetzee)

513. CODY, Regina Jacqueline. Mechanism of the Chemiluminescent Recombination of O and NO. (Kaufman)

514. FALLETTA, Charles Edward. Structure and Reactions of Halogen Derivatives of Boron and Nitrogen. (Carter)

515. GRAY, William Frederick. Part One: Thermal Decomposition of Arenediazonium Salts. Part Two: Intramolecular Assistance to Amide Hydrolysis. Part Three: A Small-Scale Synthesis of Mevalonolactone. (Cohen)

516. HATCH, William Ellis. Total Synthesis of d,1-Epiclovane. (Danishefsky)

517. HUTCHENS, Robert Douglas. Magnetic, Electrical, and Thermal Properties of Some Rare-Earth Intermetallic Compounds of the Compositions Ln_3In , LnPb_3 and LnPd_3 . (Wallace)

518. JORDAN, William Trew. A Circular Dichroism Study of Some Complexes of Cobalt(III) with EDDA-Type Ligands. (Douglas)

519. JOZWIAK, Edward Leonard, Jr. Boron-Containing Gamma-Globulins and Their Application in the Thermal Neutron Therapy of Tumors. (Carter)

520. KENNEDY, James Vern. Some Volumetric Properties of D₂O Solutions of Selected Alkali Halides and of Deuterium Chloride. (Frank)

521. KLEID, Dennis Gordon. Synthesis of Oligonucleotides. (Chapman)

522. KRISHNASWAMY, Ramamurty. D.C. and A.C. Polarography of Alkali Metals in Dimethylsulfoxide. (Wilson/Coetzee)

523. LUTHER, George William, III. The High Resolution ¹H(250 MHz) NMR Analysis of Strychnine and Selected Derivatives. (Carter)

524. MAHONEY, James Vincent. A Study of Crystal Field Effects Through Thermal, Electrical and Magnetic Measurements on LaAl₃, CeAl₃, PrAl₃ and NdAl₃. (Wallace)
525. MASON, Edward Valentine, Jr. Charge-Changing Cross-Sections and Pre-Equilibrium Charge-State Distributions of OB Recoils from OB(d,d) OB Elastic Scattering. (Wolke)
526. MITCHELL, Edward John, Jr. A Comparison of the Hydrogen Bonding and Protein Acceptor Abilities of Bases. (Arnett)
527. QUICK, James E. Total Synthesis of Camptothecin and a D,E-ring Analog. (Danishefsky)
528. SMITH, Katherine Woo. Hydrogen Transfers in Thermal and Copper-Induced Aromatic Diazonium Ion Decompositions. (Cohen)
529. SPURGEON, Joe Charles. Voltammetry of Polynuclear Aromatic Hydrocarbons in Sulfolane as Solvent. (Coetzee)
530. SWERDLOFF, Michael Dennis. The Competition Between Bond Rotation and Intramolecular Hydrogen Atom Transfer During a Copper-Promoted Diazonium Ion Decomposition. (Cohen)
531. TARINO, Janet Ziskind. Study of Copper(I)-Induced Aromatic Diazonium Ion Decompositions. (Cohen)
532. TRAINOR, Daniel William. Gas Phase Recombinations of Hydrogen Atoms. (Kaufman)
533. TREBLOW, Moredecai D. Reactions of Stable and Transient Organocopper Compounds. (Cohen)
534. TUAZON, Polygena Tejada. Part A. Conformations of Cyclohexyl Phosphate Esters. Phosphorylation of Alcohols with a Light-Activated Phosphotriester. (Chapman)
535. VOLKMANN, Robert Alfred. The Total Synthesis of d1-Camptothecin. (Danishefsky)
- 1973**
536. FINSETH, Dennis H. Infrared and Raman Studies of : A) Cyclopropanone, B) Trimethylenemethaneiron Tricarbonyl, C) Perchloro-4-Radialene, D) Aniline, E) Tropylium Ion. (Miller)
537. FREEDMAN, Elsa Acosta. Nucleophilic Reactions on Activated Sulfonic Acid Esters. (Chapman)
538. KANG, Kil Mo. On the Mechanism of Action of Vitamine B12: Model Studies. (Dowd)
539. KUNESH, Charles Joseph. Magnetic, Mossbauer, Structural and Thermal Studies of Some Ln¹⁺-XTHxFe³⁺ Intermetallic Compounds (Ln-Sc, Y, Ce, Pr, Gd, Dy, Lu). (Butera)
540. LEVINE, Stuart Z. Fluorescence Studies of Gaseous NO₂ and SO₂. (Kaufman)
541. LEVITT, Susanna Blare. Computerized Instructional Aids in Chemistry. (Johnson)

542. MORIARITY, Thomas Charles. A Thermochemical Method for Comparing Acidities. (Arnett)
543. NAKOVICH, John A., Jr. Infrared and Raman Studies of : A) Trithiadiborolanes, B) 1,1-Dicyanocyclopropane, C) Diacetylenes. (Miller)
544. SELTZMAN, Herbert H. Histidine Containing Peptides the 1,1,1,3,3,3-Hexafluoro-2-(p-chlorophenoxy-methoxy)-Propyl Blocking Group for the Imidazole Ring Synthesis of Thyrotropin Releasing Hormone. (Chapman)
545. SHARPE, William Raymond. Spectroscopic Studies of Ion Solvent Interactions. (Coetzee)
546. SMITH, Griffith George, Jr. Mechanized Procedures for Strategic Planning in Synthetic Organic Chemistry. (Schumacher)
547. SOLASH, Jeffrey. The N-Nitrosoamide Decomposition of Some Trans-decalylamines. (Cohen)

1974

548. BIERBAUM, Veronica M. Kinetics of the Gas Phase Reactions of N_2H^+ , N_4^+ , N_3^+ , O_2^+ , and H_3O^+ with Water. (Kaufman)
549. CONNOR, William M. Mossbauer Spectroscopic Study of Hemichromes and Hemochromes. (Straub)
550. DEBIAK, Ted Walter. Charge-Changing Cross-Sections and Charge-State Distributions of Few-Electron Light Ions in Solid and Gaseous Targets. (Wolke)
551. IGI, Kozo. Circular Dichroism of Trimethylenediamine-N,NR-Diacetate Cobalt(III) Complexes and Related Complexes. (Douglas)
552. KULLUK, John Dwight. Thermodynamics of Complexing by Titration Calorimetry. (Arnett)
553. MINASZ, Richard Joseph. An Investigation of Cation-Solvent Interactions by Sodium-23 Nuclear Magnetic Resonance. (Arnett)
554. MISKINIS, Edward Timothy. Magnetic Investigations of Some Intermetallic Compounds Consisting of Rare Earth Metals with Fe, Co, or Pt. (Wallace)
555. MONTGOMERY, Richard Miller. Reduction of Steroidal Olefins. (Danishefsky)
556. MUCHA, John Aaron. Optically Detected Magnetic Resonance (ODMR) Spectroscopy of the Lowest Triplet States of Benzophenone and Halogenated Benzophenones. (Pratt)
557. SALEH, Ramzi Yanni. Transition Metal Complexes with Bidentate Sulfur Containing Ligands. (Straub)
558. SAULS, Frederick Charles. Solvent Exchange Rates of Some Nickel (II) Complexes in Acetonitrile. (Coetzee)

559. SMALL, Leonard Edwin. A Thermochemical Method for Comparing Weak Carbon, Sulfur, and Oxygen Acids. (Arnett)

560. SNIDER, Albert Monroe. Infrared and Raman Studies of A) Tetrafluorodiphosphine, B) Silicon Tetrasulfate and Germanium Tetrasulfate, c) Tetrachloroallene and Tetraiodoallene, D) Methyl Magnesium Iodide and Ethylmagnesium Bromide in Diethyl Ether. (Miller)

561. WOOD, John Thomas. The Decarboxylation of Cuprous Carboxylates in Quinoline and Pyridine. (Cohen)

562. YUE, Hong-Jun. Microwave-Optical Double Resonance (MODR) Spectroscopy of the Lowest Triplet States of Halogenated Benzenes. (Pratt)

1975

563. BOXLER, Dena Loncoske. The Total Synthesis of Diumycinol and Moenocinol: The Synthesis of Allylic Sulfones and Their Conversion to Dienoic Acids. (Grieco)

564. CAIN, Paul Alfred. The Pyridine Route to Optically Active 19-Norsteroids. (Danishefsky)

565. CRAGEL, John. Some Cobalt Complexes Containing Quadridentate Macrocyclic Amine Ligands. (Douglas)

566. DEBIES, Thomas Paul. Investigations in Electron Spectroscopy. (Rabalais)

567. DELZER, Gary Albert. A Redetermination of Activity and Osmotic Coefficients of KCl in D₂O Solutions. (Frank)

568. DYNAK, John Newton. New Synthetic Methods: Intramolecular Homoconjugate Addition to Nucleophiles to Activated Cyclopropanes. (Danishefsky)

569. ELBERT, William Fennsler. Studies in Infrared and Raman Spectroscopy: A) Perchlorobutatriene. B) 1,1,4,4-Tetrachlorobutatriene. C) Potassium Tetraisulfatocobaltate(II). D) Tetrazido Germanium. E) 1,6-Dicarba-CLOSO-Hexaborane (6). (Miller)

570. GARBER, Robert William. A Polarographic Method for the Determination of Atmospheric Sulfur Dioxide and a Study of the Electrochemical System. (Wilson)

571. HSU, Eva Chiwen. Ligand Substitution Kinetics of Nickel(II) in Dimethylsulfoxide as Solvent. (Coetzee)

572. INOUE, Toshiharu. Low Temperature Heat Capacities of Some 1:2 and 2:17 Rare Earth Intermetallic Compounds. (Craig)

573. KELSEY, G. Steven. Some Aspects of the Electrochemistry of Chromium and Molybdenum in Water and Methanol. (Safford)

574. MAZZA, Samuel Mitchell. Studies Directed Towards the Total Synthesis of Vernolepin. (Danishfesky)
575. POGANOWSKI, Chester S. Dianion Studies of δ -Keto Phosphonates and δ -Keto Sulfoxides. The Total Synthesis of 12-Methyl Prostaglandin A₂. (Greico)
576. REAP, James John. Part A: A Model Studies Directed Towards the Total Synthesis of Vernolepin and Vernomenin. Part B: Prostanoid Synthesis. (Greico)
577. RUSS, Muchere Cosetta. The Reduction of Third- and Fourth-Rank Tensors and Their Expansion in Terms of Generalized Spherical Functions. (Hollingsworth)
578. WALTER, Henry Franklin. An Electron Paramagnetic Resonance Study of Conformational Effects in Alkyl-Substituted 2-Cyclohexanonyl Radicals in an Adamantane Matrix. (Pratt)

1976

579. BOGOVICH, Katryna. The Isolation and Purification of Protein Fractions Involved in *E. coli* DNA Replication. (Ryan)
580. CHOW, Mudan Lee. Trimethylenemethane Ring Closure and Temperature Dependence of the Electron Spin Resonance Spectra -- Approach to a Novel Conjugated Radical. (Dowd)
581. COLTON, Richard J. Studies in Ultraviolet and X-Ray Electron Spectroscopy. (Rabalais)
582. DIETZ, Albert George. The *o*-N,N-Dimethylcarboxamido Group as an Intramolecular Probe for Phenyl Radicals. (Cohen)
583. GLENN, Ronald LeNard. A Theoretical Study of the Magnetic Heat Capacity of Praseodymium Metal. (Hollingsworth)
584. GOUDY, James Andrew. Hydrogen Solubility in Rare Earth Intermetallic Compounds. (Wallace)
585. HERMER, Robert Edward. The Synthesis and Characterization of Sexadentate Hexamine Transition Metal Complexes and Their Utility as Templates for Macrocyclic Synthesis and Ion Pairing Models. (Douglas)
586. JORDAN, Jimmy Eugene. Electron Paramagnetic Resonance and Optical Spectroscopic Studies of Neutral Free Radicals in an Adamantane Matrix. (Pratt)
587. KUHN, David George. (Cohen)
588. LUECK, Dale Everett. The Coulometric Dissolution and Electrochemical Behavior of Titanium Anodes in Methanol. (Safford)
589. MARGITAN, James John. Gas Phase Reactions of OH Radicals Studied by Molecular Resonance Fluorescence. (Kaufman)

590. McCALL, William Martin. Magnetic and Structural Studies of RCo_2Ge_2 and $RRCO_5-xCux$ Compounds (R-Rare Earth or Yttrium, $RR=Y, Gd, HO$). (Butera)
591. MURA, Albert Joseph, Jr. New Synthetic Methods Utilizing Organo-Sulfur Compounds. (Cohen)
592. PRITTS, Irvin Milton. The Effect of Stabilizing Agents on the Hydration Rate of $\$$ -Dicalcium Series. (Daugherty)
593. SHAFFER, Carl David. Synthesis, Characterization, and Mossbauer Spectra of Some Novel Hemins. (Straub)
594. VITUS, David Michael. An Investigation of the Rotational Conformer Equilibrium in 1,2-Difluoroethane. (Bothnerby)

1977

595. BAUSE, Daniel Eagle, III. A Carbon-13 and Proton Magnetic Resonance Investigation of Inorganic Stereochemistry: Studies of Cobalt(III) Complexes of Sarcosine-N-Monopropionate and Ethylenediamine-N,NN,NN-Triacetate Ions and Analogues. (Douglas)
596. CHANG, Jeng-Sian. I. Kinetics of the Reactions of Hydroxyl Radicals with HO_2 , N_2O , $ClNO_3$ and Several Halocarbons. II. Interferometric Study of the Chemiluminescent Excitation of Sodium by Active Oxygen. (Kaufman)
597. COON, Victoria Tan. Rare-Earth Intermetallic Compounds as Catalysts for the Hydrogenation of Carbon Monoxide. (Wallace)
598. DePALMA, Vincent Michael. A Systematic Investigation of the Ion Pairing Tendencies of Alkali-1 Ketoenolates and Their Relationship to the Ambient Nucleophilicity of These Anions. (Arnett)
599. DONNELLY, Vincent Michael. Laser Induced Fluorescence Lifetime and Quenching Studies of Gaseous Nitrogen Dioxide. (Kaufman)
600. DUFFER, Paul Francis. The Effects of Magnetic Impurities and Hydrogen Absorption on the Superconductivity of $Hf_{1-x}Zr_xV_2$ Compounds. (Rao)
601. FAUST, Robert Jeffrey. Investigation of the Hydration Reactions of The Calcium Aluminates with Calcium Sulfate with Calcium Sulfate (Daugherty).
602. GRANCHI, Michael P. Circular Dichroism Studies of Triethylenetetraamine-N₂,N₃-Diacetic Acid Type Cobalt(III) and Bicyclic 1,3-Diketone Iron(III) and Copper(II) Complexes. (Douglas)
603. HARTMAN, Christopher Phillip. The Isolation and Characterization of Protein Fractions Utilized in *E. coli* DNA Synthesis. (Ryan)

604. HAWN, Gary Gerald. Circular Dichroism Studies of Some Cobalt(III) Complexes Containing Phenyl Substituted Ethylenediamine-N,NN-Diacetate and Ethylenediamine-N,N,N,NN,NN- Tetraacetate Analogs. (Douglas)
605. LIEN, Cheng-Li. A Study of the Use of Foam to Control Methane Emissions in Mines. (Taber)
606. PETRO, Stephen Craig. Heats of Formation of Simple Alkyl and Cycloalkyl Carbocations in Superacid Solvent Systems at Low Temperatures. (Arnett)
607. RAWLINS, Wilson Terry. Application of OI and NI Resonance Absorption in the Vacuum Ultraviolet to Studies of Electronic Energy Transfer in Active Nitrogen, Line Broadening in Low Pressure He Discharge Lamps, and Thermospheric O(3P) and N(4S) Densities. (Kaufman)
608. SCHUDA, Paul Francis. Studies Directed Towards the Total Synthesis of d1-Vernolepin and d1-Vernomenin; The Total Synthesis of d1-Vernolepin and d1-Vernomenin; Studies Directed Towards d1-Pentalenolactone. (Danishefsky)
609. SITO, Karen Roxanne. The Characterization of Deoxynucleotide - Incorporating Enzyme Fractions of *E. coli*. (Ryan)
610. SUBAK, Edward Joseph, Jr. Solvent Effects in Ligand Substitution at Labile Metal Ions. (Coetsee)
611. TSAI, Mei-Yuan. Part I. Electrophilic Properties of Activated Cyclopropanes. Part II. Reactions of Epoxides with Organometallic Acetic Acid Carbanion Equivalents. (Danishefsky)
612. WALKAUSKAS, Lloyd Peter. Gas Phase Hydrogen Atom Recombination. (Kaufman).
613. WANG, Chia-Lin Jeffrey. Reagents for the Synthesis of α -Methylene Lactones; The Total Synthesis of (α)-12-Fluoroprostaglandin F₂ Methyl Ester, (α)-12-Fluoro-13,14-Dihydro Prostaglandin F₂ Methyl Ester and (α)-12-Fluoro Prostaglandin F₂ Methyl Ester; Stereochemistry and Total Synthesis of (α)-Ivangulin (Greico).
614. YESSO, John David. Effects of Atomic Structure on the Equilibrium Charge State Distributions of Heavy Ions. (Wolke).
615. ZAHNISER, Mark Stuart. Kinetic Studies of Gas Phase Reactions of C1 Atoms and C10 Atoms and OH Radicals of Importance in the Stratosphere. (Kaufman).
616. ZIMMER, Alyce Lorraine. A Study of Base-Catalyzed Aldol Cyclizations of 1,5 Diketones; The Total Synthesis of Camptothecin Analogs. (Danishefsky).

1978

617. BERGNER, Robert Leonard. Studies of the Superconducting Properties of A-15 Type Intermetallic Compounds. (Rao).

618. BIBER, Joseph. The Preparation of Second Class Electrodes for the Coulometric Generation and Potentiometric Sensing of Such Neutral Species as 1,10 Phenanthroline and Its Derivatives (Safford).
619. BURKE, Steven Douglas. Part A: Synthetic Investigations Directed at (-)-Vernolepin and (-)-Vernamenin. Part B: Synthetic Investigations Directed at (-)-Saussurea Lactone and (-)-Dihydrocostunolide. Part C: Stereochemical Reversals in the Lithium-Ammonia Reduction of Ketones. (Grieco).
620. CHANG, Cheng Allen. Stereochemical Studies of Cobalt(III) Complexes of Quinquedentate and Sexidentate Amino Polyacids Using Carbon-13 Shifts. (Douglas)
621. DOEHNER, Robert Frances, Jr. Studies Directed Toward the Synthesis of a Mitomycin. (Danishefsky)
622. DRESSER, Richard Daniel. Characterization of Blood by Trace Metal Analysis Using Continuum Source Atomic Fluorescence Spectroscopy. (Plankey)
623. HEITHMAR, Edward M. Continuum Source Atomic Fluorescence of Elements with Resonance Line in the Far Ultraviolet. (Plankey)
624. IRR, Lawrence G. The Coulometric Generation of Certain Manganese Species; Voltammetric Studies of Lithium Salt-Acetonitrile Solutions Containing Traces of Water. (Safford)
625. KARAKATSANIS, Costas G. Solvent Effects of Kinetics and Thermodynamics of Complexation of Nickel(II) and Iron(III). (Coetzee)
626. MARINOVIC, Nebojsa M. Studies Directed Toward the Total Synthesis of (-)-Vernolepin; Novel Rhodium Catalysts in Organic Synthesis. (Grieco).
627. McKEE, Robert Stewart. The Total Synthesis of Several Pyrrolizidine Alkaloids. (Danishefsky)
628. MERCHES, Mircea Orest. Permanent Magnet Properties of Some 1:5 and 2:17 Substituted Lanthanoid-Cobalt Intermetallics. (Wallace)
629. MOLDOVAN, Anton G. Plasmon and Quantitative Auger Spectroscopy Studies of Solids. (Wallace)
630. MOSKAITIS, Robert J. An Investigations as to the Nature of the Spin-Flop-Paramagnetic Transition in $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$. (Butera).
631. PERZAK, Frank John Paul. Effect of Dimer Dissociation of Depolarized Scattered Light in Dilute Gases. (Hollingsworth)
632. RUTTER, Deborah Rae. A Magnetothermodynamic Study of the Spin Flop Boundary and Bicritical Region which Occur in Antiferromagnetic $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$. (Butera).
633. SMITH, Frederick P. Detection of Drugs in Bloodstains Using Radioimmunoassay. (Plankey)

634. YAN, Cheng-Feng. Part I. Studies of the Diehls-Alder Reaction; Part II. Studies Related to Prephenic Acid. (Danishefsky)

1979

635. BERQUIST, Bruce Mitchell. I. Relaxation Studies of Vibrationally Excited HCl; II. Rate Constant Calculations for the Reaction Cl + CH₄ from 200 to 500EK. (Kaufman).

636. BLASI, Raymond J. Polarized Single-Crystal Electronic Absorption Spectra of A: Potassium 12-Tungstocobaltate(II) and Potassium 12-Tungstocobaltate(III); B. Imidazole and Substituted Imidazole Complexes of Copper(II) Nitrate (Straub).

637. CARVALHO, Manual B. Trace Arsenic Analysis; Characterization of Wilkinson's Catalyst. (Hercules).

638. FEENEY, Joseph J. Reactions of Tris (1-Pyrrolidinecarbodithiolate) Iron(III), Fe(Pyrdtc)₃ (Straub).

639. GAPINSKI, Richard E. The Synthesis and Reactions of Phenylthio Derivatives of Carbonyl Compounds (Cohen).

640. GILMAN, Sydney A. Part A. Selenium-Based Reagents in Organic Chemistry; Part B: Total Synthesis of (")-Eriolanin (Grieco).

641. GOMBATZ, Kerry Joseph. The Total Synthesis of d1-Pentalenolactone (Danishefsky).

642. ISTONE, William K. The Relative Reactivity of Copper Ion in Different Solvents (Coetzee).

643. JORDAN, William J. The Fusion of ¹²C and ¹⁶O with ^{28,29,30}Si (Wolke).

644. KARLICEK, Robert F. A Pulsed Nuclear Magnetic Resonance Study of Hydrogen Motion in δ -LaNi₅ Hydride. (Wallace)

645. LIPARI, Frank. Several Applications of Nondispersive Continuum Source Atomic Fluorescence Spectrometry. (Plankey)

646. MAJETICH, George Franklin. The Stereospecific Total Synthesis of Pseudoguainolides: A General Route to Helananolides and Ambrosanolides. (Grieco)

647. REICH, Ronald Alfred. The Complete Kinetic and Thermodynamic dissection of a Series of S₂ Reactions: The Quaternization of Meta-and Part-Substituted Pyridines. (Arnett)

648. WEISENFELD, Robert B. Part I. New Synthetic Methods Involving Sulfur-Stabilized Anions. Part II. Generation of Car-2-ene Via a Copper-Carbenoid Intermediate (Cohen).

649. ZINGG, Derrick S. A. X-Ray Photoelectron Spectroscopic Study of Lead Sulfate. B. Surface Investigation of MbO₃/(Al₂O₃ Catalysts (Hercules).

1980

650. BRODE, Philip Frederick, III. Optically-Detected Radiofrequency Studies of Triplet Benzophenones in High Fields. (Pratt)
651. CHIN, Roland Lee. Characterization of Cobalt-Alumina and Related Catalysts and ESCA Studies of Methanation Catalysts Derived from Intermetallic Compounds and Structural Analysis of Co/Mo/Al₂O₃ Hydrodesulfurization Catalysts (Hercules).
652. FROLLINI, Dominick, Jr. Relative Donor Strengths of Solvents Toward Nickel(II) Ion and Their Effect on the Kinetics of Ligand Substitution Reactions at Nickel(II) Ion. (Coetzee)
653. GERMANO, Don J. Heat Capacity Studies of Crystal Field Effects in Rare Earth-Iron Intermetallic Compounds. (Butera)
654. JEONG, Kyu-Man. Kinetic Studies of Reactions of Hydroxyl Radicals with Halocarbons in the Gas Phase. (Kaufman)
655. JORDAN, Roberta Marie Etzel. Semiclassical Exchange Scattering Theory: Analysis of He*(21s,23s)+He Differential Cross Sections (Siska).
656. KRISTINE, Frank Joseph, Jr. Electron Transfer Mechanisms and Structures of Bridged Binculear Transition Metal Complexes. (Shepherd)
657. MAROLDO, Stephen G. Ion Pairing and Reactivity of δ -Keto Enolates. (Arnett)
658. MARTIN, Michael W. Application of the Fluoride Ion-Selective Electrode to Studies in Organic Solvents. (Coetzee)
659. MARTIS, Ronald J. Studies on Temperature Compensated Rare-Earth Cobalt Magnetic Materials. (Rao)
660. McCREADY, Russell James. New Reagents for Olefin Epoxidation. (Rebek)
661. REGAN, John Robinson. Studies Directed Towards the Synthesis of the Mitomycins. (Danishefsky/Rebek)
662. THOMPSON, Orlean I. Chiral Aggregation Phenomena in Monolayers at the Air-Water Interface. (Arnett)
663. TRIVEDI, Bharat K. Introduction: Synthesis of New Model Systems for the Mechanism of Action of Vitamin B12: Synthesis and Resolution of δ -Methylitaconate Acid: The Substrate for δ -Methylitaconate Mutase (Dowd).
664. WATTLEY, Ruth Veal. Allosteric Effects and Site-Specific Binding in Model Systems for Enzyme Catalysis. (Rebek)

665. WILLIAMS, Eric L. Part A. Studies Directed Toward the Total Synthesis of (")A-23187; Part B: Formal Total Synthesis of (")A-23187 (Greico).

1981

666. AMES, Anthony. 1.0 Methylation of 5-Aryl Substituted Oxazoles: Total Synthesis of the Benzyloquinoline Alkaloids Papaverine and Escholamine Methiodide. 2.0 Dimethylaluminum Methaneselenolate: A New Reagent for the Preparation of Active Acyl Transfer Agents. 3.0 Total Synthesis of the C-Nucleoside d,1-Showdomycin (Kozikowski).

667. CLINTON, Thomas, Jr. Heat Capacity Studies of Rare-Earth 1:2 Iron Intermetallic Compounds 1.5-20 K. (Butera)

668. GARDELLA, Joseph A., Jr. Novel Application of Multitechnique Surface Analysis: A. Surface Analysis of Polymer Systems B. Laser Microprobe Mass Analysis of Polymer Systems. C. Multitechnique Surface Analysis of Source Specific Environmental Particles. (Hercules)

669. GARNER, Philip Paul. Studies Directed Towards the Synthesis of 4.5-Dimethylenebicyclo [1.1.1] pentan-2-one (Dowd).

670. GRAHAM, Susan Wilson. Surface Spectroscopic Studies of Biomaterials and Steel. (Hercules)

671. GREGOR, Richard William. Differential Elastic Scattering of Ne*(3s3p2,0 by Ar, Kr, and Xe (Siska).

672. JONES, Gerald L. Studies in Infrared and Raman Spectroscopy: A. Cubane B. Phosphabenzene and Arsabenzene. (Miller)

673. KOSARYCH, Zenyk Bohdan. The Preparation of 1-Sulfur Substituted 1,3 Dienes and Their Utilization in 4+2 Cycloaddition Reactions (Cohen).

674. MATZ, James Russell. Synthetic Applications of Organolithium Reagents Derived from Organosulfur Compounds with an Emphasis on Ring Expansion Processes. (Cohen)

675. OKUNICWICZ, Francis J. The Total Synthesis of (")-12-Substituted Prostaglandin F₂" Analogs (Greico/Dowd).

676. RONDAN, Nelson G. Theoretical Studies of (a) Transition States and Selectivities of Singlet Carbene Cycloadditions, and (b) Structures, Stabilities, and Reactions of Synthetically Useful Carbanions (Houk).

677. SALVATI, Lawrence, Jr. Surface Studies of Supported Heterogeneous Catalysts (a) Phenium-Alumina and Platinum-Rhenium-Alumina and (b) Tungsten-Alumina. (Hercules)

678. SCHMEISING, Richard J. Part A. Synthesis of the "Supposed" Cannivonine; Part B. Synthesis of Pseudomonic Acid C and Formal Synthesis of Pseudomonic Acid A. (Kozikowski)

679. SHAMSI, Abolghasem. Catalyst and Semiconductor Studies Involving Oxidized Rare Earth Intermetallic Compounds (Wallace).

680. SINGHAM, Shermila Brito. Localized and Delocalized Triplet Excitations in Benzophenones. (Pratt)

681. WIESERMAN, Larry Forrest. A Study of Rhodium Carbonyl Supported on (-Alumina, Silica, and Titania. (Hercules)

1982

682. CHEN, Jeng-Chyh. The Theoretical and Experimental Determination of Band Broadening in Liquid Chromatography (Weber).

683. CHEN, Yon-Yih. Total Synthesis of (+)-Paliclavine and Formal Total Synthesis of (+)- Paspaclovine (Kozikowski).

684. FRANCE, John Earl. A Study of Some Intermetallic Compounds in Connection with the Catalytic Hydrogenation of Carbon Monoxide. (Wallace)

685. HUSSAM, Abul. Potentiometric Stripping Analysis of Electropositive Elements by Solvent Optimization. Speciation of Water at Low Concentrations in Hydrogen Bond Acceptor Solvents. (Coetzee)

686. IANNUZZI, Michael Phillip. Kinetic Studies of Electronically Atomic and Molecular Nitrogen (Kaufman).

687. KENNEDY, Paul E. Methodology for the Resolution of α -Methyl- β -Carboxy- γ -Butyrolactone. Synthesis of Carbon-13-Labelled Substrates for the Study of the B12 Nonenzymatic β - Methylitaconate Rearrangement (Dowd).

688. KLEIN, Joseph Charles. Surface Characterization of Unsupported Nickel Catalytic Systems, A) Raney Nickel, B) Urushibara Nickel and ESCA of Copper Compounds (Hercules).

689. MUNNALARI, Satyanarayana. Synthesis and Characterization of Rare Earth Intermetallic Compounds of Significance for Permanent Magnet Fabrication. (Wallace)

690. NOLAN, Steven Michael. Synthetic Compounds Involving Organosulfur Reagents. (Cohen)

691. SCHAPPERT, Raymond Francis. 4,5-Dimethylenebicyclo [1.1.1] Pentan-2-one, Precursor to 1,3 Dimethylenecyclobutadiene (Dowd).

692. SHUE, Youe-Kong. Part I. Studies Directed Toward the Synthesis of Mitosenes. Part II. Total Synthesis of Ergot Alkaloids from Tryptophan, Total Synthesis of Rugulovasine A, Total Synthesis of Lysergine (Rebek).

693. VENKATSHUBARAMIAN, Kolumam G. A Thermochemical Comparison of the Ionization of Weak Acids in Three Superbase Media. (Arnett/Rebek)

694. ZINGG, Sarah Patricia Burns. Chiral Discrimination in the Structure and Energetics of Ion Pairing. (Arnett)

1983

695. BALAMUTA, John. Spectroscopic Studies of Energy Transfer from Metastable Noble Gas Atoms (Golde).
696. BOLTICH, Edwin B., Jr. Effects of Hydrogen Absorption of the Magnetic and Structural Characteristics of Selected Rare Earth-Transition Metal Intermetallics. (Wallace)
697. COSTELLO, Timothy D. The Use of Binding Forces to Promote Reaction Rates (Rebek).
698. DANG, Tuan Anh. Spectroscopic Characterization of Intermetallic Catalysts and Correlations with Methanation Activity and Laser Mass spectrometry of Organic Compounds (Hercules).
699. DZELKALNS, Laila S. Vibrational Relaxation Study of Hydrogen Fluoride by Infrared Chemiluminescence (Kaufman).
700. JOHNSON, Craig Robert. An Investigation of the Ligand Properties of Imidazole (Shepherd).
701. KAUFMAN, Christopher. Preparation of Functionalized Cyclopropanones: Synthesis of "Cyclomevaldic Acid." Synthesis of β -Methyleneaspartic Acid: The Development of a Model for the Vitamin B Dependent Glutamate Mutase Rearrangement. (Dowd)
702. KHAN, Arshad M. Study of Velocity and Angular Distribution of Penning Ions from He*/H,D and Ne*/H,D Reactions (Siska).
703. RHODES, Michael L. Cathodic Potentiometric Stripping Analysis in Flow Systems (Coetzee).
704. SHABER, Steven Howard. Studies Directed Toward the Synthesis of Mitosenes: Total Synthesis of Trans-2-Acetamido-7-Amino-1-Methoxymitosene (Rebek).
705. SHYU, Zousheng L. Surface Spectroscopic Characterization of Supported Ni Catalysts and an ESCA Study of Alkali Promotion of Ru/SiO₂ Catalysts and an Investigation of Zeolite Support Effects on Ru-Zeolite Catalysts by ESCA. (Hercules)
706. SORGI, Kirk Leonard. The Total Synthesis of Pseudomonic Acids A and C. Part II. A Carbohydrate Approach to Pseudomonic Acid B. (Kozikowski)
707. SMITH, H. Kevin. Thermodynamic and Kinetic Studies of the Reaction of H₂O and for H₂ with Selected Rare Earth and Rare Earth Intermetallic Compounds. (Wallace)

1984

708. EATON, Thomas A. Structural Studies of Phenylalkylammonium Perchlorate-Crown Ether Complexes and Phencyclidine (PCP) and PCP Analogues (Houk).
709. GARDNER, Charles William, Jr. Applications of the Lead(II) Ion-Selective Electrode in Flow Systems Using Optimized Solvents (Coetzee).

710. GRECO, Michael N. The Total Synthesis of Two Structurally Unique Indole Alkaloids: Part A: The Total Synthesis of Clavicipitic Acid. Part B: The Total Synthesis of α -Cyclopiazonic Acid (Kozikowski).
711. KASHMAR, Richard Joseph. Optically-Detected Magnetic Resonance Studies of Excited States of 17O-Benzophenone, 1,5-Diiodonaphthalene, and a Ruthenium Complex (Pratt).
712. LI, Chung. Surface Spectroscopic Characterization of Hydrodesulfurization Catalysts Molybdenum-Alumina Catalysts and Ni-W/Al₂O₃ Catalysts and Molybdenum-Titania Catalysts (Hercules).
713. LIN, Ming-Teh. Preparation and Synthetic Applications of Unstabilized α -lithio Cyclic Ethers Derived from Organosulfur Compounds. (Cohen)
714. MARSHALL, Luann Rue. The Design Molecular Cavities: Allosteric Effects and Reaction Selectivity. (Rebek)
715. MOSES, Susan Renee. 1,2-Asymmetric Induction in Nitrile Oxide Cycloadditions and Peracid Epoxidations of Chiral Alkenes. (Houk)
716. STEIN, Philip David. Formal Syntheses of Sarkomycin and Prostaglandin F(2- α) and Approaches to Lysergic Acid and the Clavine Alkaloids. Applications of Carbocycle Construction Using the Intramolecular Nitrile Oxide Cycloaddition Reaction. (Kozikowski)
717. STROHMEIER, Brian R. Surface Spectroscopic Studies of Supported Metal Catalysts. (Hercules)
718. WEBER, William Dorsey. Synthesis of a New Model System for the Mechanism of Action of Vitamin B12: Studies Directed Toward the Total Synthesis of d1-Compacin. (Dowd)
- 1985**
719. BALASANMUGAM, Kesagapillai. Characterization of Organic Compounds by Negative Ion Laser Mass Spectrometry. (Hercules)
720. BHUPATHY, M. 2-vinylcyclobutanols: Their Syntheses via α -Lithioethers and Their Anion Accelerated rearrangements. Synthesis of δ -Selinene Brevicomins and *Mus musculus* Pheromone. (Cohen)
721. BROWN, Frank Kenneth. Ab Initio Studies and Force-Field Modeling of Diels-Alder and Nitriloxide Cycloadditions. (Houk)
722. DOA, Maria J. Intermolecular and Intramolecular Cycloadditions of Ortho-xylenes and Fulvenes. (Houk)
723. GHOSH, Arun K. Stereoselection in Nitrile Oxide Cycloaddition, Metalation-Alkylation of Isoxaylines and Their Application to the Synthesis of 2-deoxy-D-ribose, (+)-Blastmycinone, and (+)-Prelog-Djerassi Lactone. Part II. Pyranoannulation and an Enantioselective Approach to the Dactomelynes. (Kozikowski)

724. HO, Yueh-Se. Chemiionization Reactions of Metastable Noble Gas Atoms. (Golde)
725. KUO, Shen-Chun. An Efficient Approach to Angular Condensed Cyclopentanoids via Tandem Radical Cyclizations: Total Synthesis of (+)-Silphiperfol-6-ene and (+)-9-Episilphiperfol-6-ene. Studies Directed Toward the Synthesis of Gelsemine and a Novel Quinoline Synthesis. (Curran)
726. LI, Chun-Sing. Total Synthesis of Compactin Application of a NOC Route to a Molecule of Nature. (Kozikowski)
727. LIN, Yi-Tsong. The Diels-Alder Reaction of Butadiene with Ethylene and Intramolecular [6+4] and [4+2] Cycloadditions. (Houk)
728. LIU, Ching-Yang. Intramolecular [8+2] Cycloadditions of Al-kenylheptafulvenes and an Intramolecular [8+6] Cycloaddition of Heptafulvene-Fulvene. (Houk)
729. LYNCH, William Bryan. Shared Electronic Excitations in Clusters of Cyclopentanone: Solvent and Mixed Isotope Studies Using ODMR. (Pratt)
730. MOORE, Jeffry Eugene. Thermodynamic Characterization of Some Manganese Halide Hydrates and Deuterates and the Computer Implementation of Mean Field Theory Thermodynamic Expressions for Two-Sublattice Magnetic Systems. (Butera)
731. NG, Lily Mong-Sai. Electron Impact Spectroscopic Studies of the Temporary Anion States of Triply-bonded Molecules and Chromium Tricarbonyls. (Jordan)
732. NIEDUZAK, Thaddeus R. Studies Directed Towards the Total Synthesis of the Antibiotics (+)-actinobolin and (-) Bactobolin. Intermolecular Diels-Alder Route to the Total Synthesis of (+)- 5,6,10-epi-actinobolin. (Kozikowski)
733. PARK, Pyeong-uk. Total Synthesis of Streptazolin and Oxidation of Isoxazolines by Peracids. (Kozikowski)
734. PIYASENA, Hewawasan. Investigations of (I) Intramolecular [6+4] and [6+2] Cycloadditions of Fulvenes, (II) Intramolecular Diels-Alder Cycloadditions of Acyclopentadienes, and (III) Asymmetric Induction in Nitrile Oxide Cycloadditions to Chiral Acrylates. (Houk)
735. ROHLY, Kenneth E. Laser Desorption Mass Spectrometry of Some Transition Metal Complexes of Two Schiff Base Ligands and Structural Characterization of Some edta-type Cobalt(III) Complexes. (Douglas)
736. SHERBINE, Jay (James Phelen). α -Lithiosilanes: Their Generation by Reductive Lithiation and Their Use in the Peterson Olefination with Emphasis on the Preparation of Alkylidenecyclopropanes. (Cohen)
737. SIDDIQUI, Humayun Reza. Chemiionization of the Chloromethanes by Rare Gas Metastables in Crossed Molecular Beams. (Siska)
738. SPANGLER, Lee Herring. Triplet States in Supersonic Jets. (Pratt)

739. TAI, Dar-Fu. Total Synthesis of Ergot Alkaloids from Tryptophan. (Rebek)
740. TRAMPOSCH, Walter George. Non-Hydrophobic Effects in Reversed-Phase Liquid Chromatography. (Weber)
741. WU, Tse-Chong. Intramolecular, [6+4], [6+2], and Diels-Alder Reactions. (Houk)
- 1986**
742. ELBICKI, Janean Marie. The Selectivity of Photoelectrochemical Detection. (Weber)
743. GUNARATNA, Prema Chandrani. A Potentiometric Gas Sensor for the Determination of Free Chlorine. (Coetzee)
744. HENDERSON, Wayne Whitney. Studies of the Coordination of B-Donor and B-Acceptor Ligands to Block Metal Centers. (Shepherd)
745. HERSHLINE, Roger Kenneth. Cyclopropylacarbonylcobalamin Intermediates and Carbon-13 Labelling in Model Studies of the Coenzyme B12 Dependent Rearrangement of Methylitaconic Acid and α -Methyleneglutaric Acid. (Dowd)
746. HSU, Kuang-Jung. High Pressure Flow Tube Studies of the Reaction of H + O₂ + M at 298- 639K. (Golde)
747. JACOBS, Patricia Broun. Combination Claisen-Nitrile Oxide Annulation: Model Studies and the Synthesis of the Iridoid Aglucone Ethyl Catalpol with Studies Directed Toward the Synthesis of Specionin. (Curran)
748. LIAO, Chao-Chuan. Complexation Reactions of Cadmium Ion in Acetonitrile. (Coetzee)
749. MYSER, Terry Kim. Oxidation-Reduction Reactions of Transition Metal Complexes of Polyaminocarboxylate Ligands. (Shepherd)
750. OSWALD, Eric Stephen. Studies of Rare Earth-Transition Metal Permanent Magnet Materials. (Wallace)
751. PARKER, Cass Darrell. Laser Mass Spectrometry of Nonvolatile Compounds. (Hercules)
752. RAMA KRISHNA, Mushti V. Theoretical and Experimental Studies in Chemical Physics. (Pratt)
753. SPERLEIN, Robert F. Molecular Beam Studies of the Chemiionization of Small Molecules by Metastable Helium. (Siska)
754. THOMAS, Joseph Michael. Gas Phase Kinetic Studies of Metastable Molecular Nitrogen A State. (Golde)
755. URAM, Kevin J. Interactional Effects Between Coabsorbed Species on Single Crystal Transition Metal Surfaces. (Yates)

756. VEERARAGHAVAN, Balaji. Electron Transmission Spectroscopy of Unsaturated Hydrocarbons: A Study of Orbital Interactions. (Jordan)

757. WU, Yun-Dong. Theoretical Studies of Organic Reactions: I. Stereoselectivities of Nucleophilic Additions to Chiral Carbonyl Compounds. II. Stereoselectivities of Hydroborations of Unsymmetrical Ketones. III. Transition Structures for Hydride Transfers. (Houk)

1987

758. ALVEY, Mark Douglas. The Determination of Surface Bond Geometries Using Electron Stimulated Desorption Ion Angular Distributions (ESDIAD). (Yates)

759. BALTRUS, John P. Spectroscopic Characterization of Hydrotreating Catalysts Containing Cobalt, Nickel, and Molybdenum. (Hercules)

760. BEEBE, Thomas P. Spectroscopic and Kinetic Investigations of the Structure and Reactivity of Species Absorbed at Surfaces (pt. 1 + pt. 2). (Yates)

761. CHEN, Meng-Hsin. Part I. Total Synthesis of α -9(12)-capnellene: Part II. Iodine Atom Transfer Cyclization and Cycloaddition. (Curran)

762. CHENG, Xue-Min. Part I. A New 4-Substituted Indole Synthesis Promoted by Metal Triflates Applications to Other Heterocyclic Systems Synthesis of C-aryl and C-heteroaryl Glycosides: Part II. Studies Directed Toward the Synthesis of the Tumor Promoting Agent Lyngbyatoxin A. (Kozikowski)

763. CHOI, Soo-Chang. Exploration and Development of Models for the Vitamin B12-dependent Glutamate Mutase Rearrangement. Part Two: On the Mechanism of Action of Vitamin B12 Model Studies Directed Toward the Hydrogen Abstraction Refraction. (Dowd)

764. ECOFF, Martin J. Potentiometric Stripping Analysis. (Coetzee)

765. FENK, Christopher J. A Generalized Approach for the Preparation of β -hydroxy Acid Derivatives Through Intermolecular Cycloaddition of 2-(Trimethylsilyloxy)-2-methylpropanenitrile Oxide. Synthesis of Crispatic Acid. (Curran)

766. GUO, Bao-Shan. Allylmetals: Production by Reductive Metallation and the Use of Titanium(IV) and Cerium(III) for Control of Their Regiochemistry and Stereochemistry. (Cohen)

767. KIM, Byeang Hyeon. Part 1. Nitrile Oxide Cycloadditions in Synthesis. A New Method for the Generation of Nitrile Oxides, a Cycloadditive Approach to α,β -Unsaturated Ketones, and the Study of Relative and Absolute Stereochemical Control in Alkene Additions: Part 2. The Total Synthesis of (-)-Specionin. (Curran)

768. MALONEYHUSS, Keith Edward. Studies Directed Toward the Synthesis of the Hexahydrobenzofuran Subunit of the Milbemycins and the Avermectins: The Design and Synthesis of a Phencyclidine Based (\pm) Allosteric Modulator of the NMDA Receptor. (Kozikowski)

769. McCAULLEY, James Allen. Flow Reactor Studies of Methoxy Reactions. (Golde)
770. MORGAN, Donald Mark. Tris (2,2N-bipyridine)ruthenium(II) and Derivatives in a Photoelectrochemical Detection Scheme. (Weber)
771. MUGRAGE, Benjamin B. Part I. Synthesis and Utility of Optically Active Sulfur Containing Compounds. Part II. The Intramolecular Nitrile Oxide Cycloaddition (INOC) Reaction as a Route to Medium Rings. (Kozikowski)
772. MURTAUGH, James L., III. Resonance and Preresonance Raman Studies of Metalloporphyrins, Imidazole, Imidazolium, and Water. (Asher)
773. MYERS, Michael R. One-Flask Cyclopropanation and Vinylcyclopropanation Using Sulfur- stabilized Anionic Nucleophiles Bearing Masked Leaving Groups: Some Synthetic and Mechanistic Aspects of Conjugate Additions. (Cohen)
774. NEMETH, David John. Studies of Molecular Recognition. (Rebek)
775. PAIK, Yi Hyon. Part I. Non-Kekule Molecules; Synthesis of Dimethylenecyclobutadiene and 3-Methylenecyclobutanone Diradicals: Part II. Preparation and Reaction of Functionalized Cyclopropanone; the All-Carbon 1,3-dipole Cycloaddition: Part III. δ ,(-unsaturated Amino Acids; Synthesis of δ -methyleneglutamic Acid and δ -methyleneglutamine. (Dowd)
776. RUSSELL, John Nelson. Reaction Kinetics on Single Crystal Transition Metal Surfaces. (Yates)
777. SIDDIQUI, Shirin. Copper(II) Polyamine and Imidazole Complexes and Binuclear Ruthenium Complexes Bridged by Cyanogen, Cyanide and 4,4N-bipyridine. (Shepherd)
778. SUH, Young Ger. Part 1. Substituent Effects on the Claisen Rearrangement. The Synthetic Application of a Selective Mono-Claisen Rearrangement of Carbohydrate Glycals to the Synthesis of Pseudomonic Acids: Part 2. Studies Directed Towards the Asymmetric Synthesis of the Pyranonaphthoquinone Antibiotics. (Curran)
779. WILK, Zbigniew Adam. Laser Mass Spectrometry: The Study of Quantitative, Two- Dimensional Ion Mapping and Characterization Capabilities in Organic Analysis. (Hercules)
780. YUEN, Po-Wai. Part I. The Intramolecular Nitrile Oxide Cycloaddition Route to Spirocyclic Alkaloids. A Total Synthesis of Isonitramine and Sibirine: Part II. Studies Directed Towards the Total Synthesis of Magnamycin B Aglycone. (Kozikowski)
781. ZHANG, Lianying. Thermodynamics and Magnetism of Selected Complex Intermetallic Compounds and Their Hydrides. (Wallace)

1988

782. ASKEW, Benny Charles, Jr. Selective Recognition and Transformations in Controlled Microenvironments. (Rebek)

783. BASU, Pam. Structure and Reactivity of Species Adsorbed on Metal and Metal-Oxide Surfaces. (Yates)
784. BEER, Kenneth Dale. Surface-Enhanced Raman Spectroscopy of Pyridine Derivatives and Polymers. (Garrell)
785. CHAO, Jeng Shiow-Yau. Theoretical Investigation of Temporary Anion Resonances of Polyatomic Molecules. (Jordan)
786. CHAO, Jyh-Chyang. The Generation and Reactions of Exo Anions of α -Isoxazolines. (Curran)
787. CHEN, Jingguang. Surface Vibrational Spectroscopic Studies of Adsorbates, Oxides and Metal Clusters. (Yates)
788. ELLIOTT, Michael Gerard. Coordination of Block VIII Metals to Olefins and Substituted Imidazoles. (Shepherd)
789. JONES, Colleen Marie. Resonance Raman Excitation Profile Studies of Pentacyanoferrateimidazole and Pyrene. (Asher)
790. KIM, Dooseop. Part I. Iodine Atom Transfer Cyclization. Part II. Iodine Atom Transfer Additions to Alkynes. (Curran)
791. LUDWIG, Michael. Ultraviolet Resonance Raman Studies of Aromatic Amino Acids and Proteins. (Asher)
792. MANDEL, Jeffrey B. Synthesis, Spectroscopic Characterization, Crystal Structure Determination, and Strain Analysis of Some Cobalt(III) and Copper(II) Complexes of Hexadentate and Tetradentate Ligands Containing π -pyridyl Arms. (Douglas)
793. McCULLOUGH, Dennis Wayne. Preparation of Alkylidene and Allylidenecyclopropanes and Their Oxidative Rearrangements to Cyclobutanones: Synthesis of Natural Products via Allylcerium and Allyltitanium Intermediates. (Cohen)
794. MORELLI, John J. Analytical Applications of Laser Mass Spectrometry. (Hercules)
795. PARRIS, Kevin Delos. Structure and Bonding in Synthetic Receptors. (Rebek)
796. RAMIG, Keith Marriott. Enolate Carbenoids in Organic Chemistry. Generation and Trapping of Bicyclo[1.1.0]butan-2-olate Intermediates as Part of a New Cyclopropanation Procedure. Progress Toward the Total Synthesis of (-)-Hirsutene. (Cohen)
797. SALEK, Jeffrey S. (Jeffrey Scott). Amphipathic Cyclodextrin Hosts. (Petter)
798. STRANICK, Michael. The Influence of Boron and Titania on Co/AIO and Mo/AIO Catalysts. (Hercules)

799. WARNER, Ann Marie. Covalent Modification of Electrodes with Poly(L-glutamate) and Electrochemical Detection of Peptides. (Weber)

1989

800. AHERN, Angela M. Surface-Enhanced Raman Spectroscopy. Applications in Analytical and Macromolecular Chemistry. (Garrell)

801. CHANG, Chi-Tai. Atom Transfer Cyclization and Addition. (Curran)

802. CHANG, Tzuen-Hsuan. Determination of Reactive Impurities in Propylene Carbonate and Acetonitrile as Solvents. (Coetzee)

803. CHANG, Wonghil. Preparation and ESR Studies of Triplet Tetramethyleneethanes (Dowd).

804. GOTHE, Scott Alan. Directed Nitrile Oxide Cycloadditions: The Effects of Steric Electronic, and Through-Space Interactions of Regio- and Diastereoselectivity in Dipolar Cycloadditions to Chiral Olefins. (Curran)

805. HOFFMAN, Douglas Paul. Quantitative Analysis of the Distribution of Species on Supported Catalysts Using X-Ray Spectroscopies and Fourier-Based Data Analysis. (Hercules)

806. HUANG, Chen-Shi. Structure and Catalytic Activity of Ru(Rh)/ThO Co Hydrogenation and NiW/AlO Hydrodesulfurization Catalysts. (Hercules)

807. HUANG, Shan-Jen Chen. Electronic Structure of Small Be Clusters and Their Ions. (Jordan)

808. JUNG, Sun Ho. Studies Directed Towards the Total Synthesis of Forskolin. (Kozikowski)

809. LEDFORD, Jeffrey Scott. Surface Characterization and Catalytic Activity of Rare Earth and Actinide Promoted Cobalt and Nickel Catalysts. (Hercules)

810. LONG, John Thomas. Signal to Noise Enhancement in Voltammetric Detection. (Weber)

811. MULCAHY, Francis M. Adsorption of Metal Oxyanions on Alumina (Hercules).

812. QUINCY, Roger Bradshaw, III. Characterization and Activity of Titania Supported Molybdenum and Tungsten Catalysts. (Hercules)

813. RITTER, Robert Harold. Novel Carbenoid Behavior of Thioacetal Anions Induced by a Second Anionic Site: New Principles of Carbene Generation and Intramolecular Capture. (Cohen)

814. ROMBERGER, Matthew. Allylidene cyclopropane: Their Synthesis via σ -Lithiosilanes and Their Synthetic Application: Synthesis of σ -Bulnesol and Studies Directed Towards the Synthesis of (\pm) -Ledene. (Cohen)

815. SCRIPKO, James George. Biologically Active Spiroketal: Total Synthesis of Talanomycins A and E and of the Spiroketal Portion of Several Members of the Milbemycin Family. (Kozikowski)

816. XIA, Yan. Total Synthesis of (I)-Hyperzine A: Synthesis of (I)-Id-3-Deoxy-3-Fluoro-Myo- Inositol, and Model Studies Toward the Total Synthesis of the Rubradirins. (Kozikowski)

1990

817. ABRAHAM, William Donald. A One Carbon Ring Expansion via a Carbenoid [sic]. Crucial Role of Ion-Pairing in the Kinetic Addition of Sulfur Stabilized Carbanions to Carbonyl Compounds. Synthesis of Dictyopteris Gamete Attractants (Cohen).

818. AKAI, Yoshio. Characterization and Catalytic Activities of Co-Mn/Al₂O₃ Catalysts. (Hercules)

819. ALAVI, David Sadri. Molecular Reorientation in Polar Liquids (Waldeck).

820. BLETSOS, Ioannis V. Time-of-Flight Secondary Ion Mass Spectrometry of Polymers (Hercules).

821. CHOI, Guiyong. On the Mechanisms of Action of Vitamin B12: New Models for Methylmalonyl-CoA Mutase and Amino Mutase Rearrangements. (Dowd)

822. CHOI, Yeong. Spectroscopic and Theoretical Study of the Effect of Perfluorination on Temporary Anion States. (Jordan)

823. FAY, Martin John. Structural Characterization of Supported Metal Catalysts Using Extended X-ray Adsorption Fine Structure (EXAFS) Spectroscopy and Improved Principal Component Analysis of Noisy Data (Hercules).

824. GUO, Xingcai. Thermal and Nonthermal Processes on Single Crystal Transition Metal Surfaces. (Yates)

825. HARMON, Paul A. Ultraviolet Resonance Raman Measurements of Population and Pure Dephasing Relaxation Processes of Aromatics in the Gas Phase and in Proteins. (Asher)

826. HO, Grace Hsiuying. Study of Energy Transfer In Reactions of N(N/F-3)(+)(u) and CO(a/B-3). (Golde)

827. HO, Sui-wen. Effect of Thorium of the Structure and Catalytic Activity of Supported Cobalt and Nickel Catalysts. (Hercules)

828. JOHNSON, Jeffrey Robert. High Resolution Laser Spectroscopy in the Visible and Ultraviolet. (Pratt)

829. KUHN, Lance Scott. Selectivity in Electrochemical Detection: Phase-inversion Membrane Electrode Modifications and Photoelectrochemical Sensing with Microelectrodes. (Weber)

830. LEE, Jaemoon. Studies Directed Towards the Total Synthesis of Dactomelynes. (Kozikowski)

831. LEE, Young-Seek. Nonlinear Dynamics in Biological Oscillators. (Chay)

832. PANG, Yuan-Ping. Development of Noncompetitive N-methyl-D-aspartate Antagonists as Neuroprotectives: Design, Synthesis, and Bioevaluation of a Novel Class of Rigid Pheoxydine Analogues. (Kozikowski)
833. PARTIAN, Syrus J. Preparation and ESR Studies of Triplet Tetramethyleneethane-d₈, 2,3-dimethylenecyclohexane-1, 4-diyl and methylcyclohept-3-ene-1, 5-diyl. (Dowd)
834. RIBAR, David Paul. The Stereoselective Synthesis of Cis-anti-cis and Cis-syn-cis Tricyclo [6.3.0.0^{2,6}]undecane: Studies Toward the Stereoselective Synthesis of (1)-precaprelladiere. (Curran)
835. SEONG, Churl Min. Part 1. Atom Transfer Addition Annulation and Macrocyclization of Iodomalonitriles, and Reductive Decyanation of Germinal Dihitriles: Part 2. Syntheses and Evaluation of 2,8-Dioxabicyclo [3.3.1] Nonane-5-Carboxylic Acid and 5-(Hydroxycarbonyl)-1-Azoniabicyclo [3.3.1] nonanes as Inhibitors of the Enzyme Chorismate Mutase. (Curran)
836. SONG, Sunho. UV Resonance Raman Studies of Peptides, Proteins and Biologically Useful Internal Standards. (Asher)
837. TADAYONI, B. Mitra. Stereoelectronic Effects at Carbonyl Oxygen. (Rebek)
838. TANNER, Weslene. Ab initio Calculations and Surface-enhanced Raman Spectroscopy of Aromatic Molecules. (Garrell)
839. TAO, Wen. Energy Transfer from N to Small Molecules. (Golde)
840. TAYLOR, Patrick Alan. The Chemistry of Silicon Surfaces (Yates).
841. TJIVIKUA, Philemon Tjama. The Design and Flexible Model Systems with Molecular Clefs and an Artificial Self-replicating Molecular System. (Rebek)
842. TURBERG, Michael Phillip. Reversed Micelle Formation in Perfluorinated Liquids. (Weber)
843. WILLIAMS, Kevin W. Dynamics of Molecular Recognition in Synthetic Microenvironments. (Rebek)
844. WU, Jiangping. Part I. Synthesis of a Proposed Intermediate Along the Biosynthetic Pathway to the Ergot Alkaloids: Part II. Studies Directed Towards the Total Synthesis of Pseudopterosin A. (Kozikowski)
845. ZHANG, Jiancun. Part I. A Stereochemically Controlled Approach to *b,g*-dihydroxy Carbonyls: Part II. Synthesis of Exo-brevicomine and Pestalotin: Part III. Asymmetric Radical Cyclizations and Annulations. (Curran)

1991

846. BANERJEE, Satyajit. Synthesis of Cycloprophyl-substituted Substrate Analogs Designed to be Mechanism-based Inactivators of the Enzyme Gamma-Butyrobetaine Hydroxylase and Prolyl 4-hydroxylase. (Petter)

847. DeVITO, Valentino L. Resonance Raman Studies of Vinyl-heme Interactions in Ferric Protoporphyrinix. (Asher)
848. DOUBLEDAY, Wendel W. Allylmetallics Generated by Aromatic Radical Anion Induced Reductive Metallation of Phenyl Thioesters. (Cohen)
849. DOUBLEDAY, Mary Dosch. Cycloalkenyllithiums via Reductive Lithiation of Erol Phenyl Thioesters: Mechanistic Aspects of Reductive Lithiation. (Cohen)
850. FALCETTA, Michael F. Experimental and Theoretical Investigations of Temporary Negative Ions. (Jordan)
851. JUNKER, Diane Elizabeth. Synthesis, Characterization and Structural Determination of some Cobalt(III) Complexes with Unsymmetrical-N,N-ethylenediaminediacetate Ion and Its Pyridyl Derivatives. (Douglas)
852. KUZEMKO, Michael Anthony. Total Synthesis of (a)-Hirsutene and Vinylations of Anions Via A[3.3]-Sigmetropic Rearrangement of Xanthate Esters. (Cohen)
853. LARKIN, Peter J. Resonance Raman, FTIR and Vibrational Circular Dichroism Studies of Heme Proteins. (Asher)
854. LEE, Samkeun. Highly Reduced Carbene Complexes (Cooper).
855. LIU, Hongtao. Part I. The Generation of A-oxy Radicals by 1,5 Hydrogen Transfer and Their Subsequent Cyclizations: Part II. The Generation of A-amidoyl Radicals by 1,5-hydrogen Transfer and Their Subsequent Cyclizations; and Part III. The Generation of Radicals Adjacent to Carbonyls by 1,5-hydrogen Transfer and Their Subsequent Cyclizations. (Curran)
856. OUYANG, Hsiu. The Studies of Oil Effect on the Phase Domain, Phase Bicontinuity, and Dynamic Behavior of Ionic Microemulsions. (Brady)
857. PAZUN, James Lynn. Studies of Penning Ionization Reactions of Metastable Neon with Selected Molecular Targets in Supersonic Beams. (Siska)
858. POWERS, David Gardner. Synthesis of Cyclopropyl-Substituted Sugar Designed to be Mechanism-based, Irreversible Inactivators of the Glycosidase Enzymes. (Petter)
859. RUNDQUIST, Paul A. Optical Diffraction from Colloidal Crystals (Asher).
860. SHEN, Wang. Part I. Intramolecular 1,5-hydrogen Atom Transfers and Subsequent Radical Cyclizations. Part II. Asymmetric Radical Addition Reactions. Part III. Total Synthesis of Medhephene via Novel Tandem Radical Cyclization. (Curran)
861. SINNIHAH, Shanthi Kumar. Laser Induced Thermal Desorption of Molecules from Surfaces. A Study of Propylene and Hydrogen on Si(100), and CO Isotope Mixing on a Potassium Promoted Ni(111). (Janda)

862. SZABO, Andras. Dynamics of Small Molecules Absorbed on Platinum Single Crystal Surfaces (Yates).
863. TAN, Xue (Pratt)
864. TOMER, Jeffrey Lee. Electronic Spectroscopy of Large Molecules in the Ultraviolet. (Pratt)
865. VAUGHN, James L. Development of a Hydrogen Sensor Based on Iridium Oxide. (Coetzee)
866. VERNER, Erik Joel. 1,2- and 2,3-Wittig Rearrangements of Unstabilized Lithiocyclic Ethers Derived from Organosulfur Compounds. (Cohen)
867. XU, Zhi. Study of Interactions Between Coabsorbed Species on Ni(III) Using Infrared Reflection Absorption Spectroscopy. (Yates)
868. ZHANG, Shongsheng. The Oxidation-Reduction and Coordination of Ruthenium Complexes. (Shepherd)

1992

869. ADRIAN, James Cletus, Jr. A New Class of Functional Group Dyad Cleft Type Receptors and a Determination of the Effects of Added Water on Hydrogen Bond Based Molecular Recognition Systems in Neutral Organic Solvents (Wilcox).
870. BANDIK, George C. The Chemical Synthesis of Oligodeoxyribonucleotides (Chapman).
871. BIELER, Craig Richard. Structural and Dynamical Studies of Rare Gas-Chlorine van der Waals Molecules. (Janda)
872. BURNETT, Joseph W. Fundamental Studies of Ion-surface Interactions. (Yates)
873. CHEN, Chinpiao. Synthesis and Biological Activity fo the PC Panalogues, Decahydro-8a-phenylquinolines; Synthesis of an INS(1,4,5)P3 Bioisostere, 1,2,4-cyclohexane tris[(methylene)phosphonic acid]; Synthesis and Feeding Test of a Porposed Intermediate Along the Biosynthetic Pathway to the Ergot Alkaloid, Elymo clavine. (Kozikowski)
874. CHOI, Sung-Mo. Part I. Hydrogen-bond Directing Nitrile Oxide Cycloadditions. Part 2. 1,2-Asymmetric Induction by Radical and Ionic Reductions. (Curran)
875. COLAIANNI, Mario Luigi Benito. Vibrational Studies of Interfaces Using High-Resolution Electron Energy Loss Spectroscopy. (Yates)
876. CORELLA, Joseph A. Reductive Activation of Coordinated Arenes by a Chromium (-II) Center and Unrelated Observations. (Cooper)
877. HAM, Seung Wook. Part I. On the Mechanism of Action of Vitamin K; Part II. Preparation of ESR Studies of Triplet 4-methylenecyclopentane-1,3-diyl. (Dowd)

878. JAGANNATHAN, Suryaprabha. High Resolution Optical Spectroscopy of 1-Napthoic Acid in a Molecular Beam. (Pratt)
879. LEE, Sijoon. Highly Reduced Complexes of Manganese with Arene, Cyclopentadienyl, and Indenyl Ligands. (Cooper)
880. LI, Xiang. Part I. Synthesis and Pharmacological Studies of Cocaine Analogues. Part II. Studies Directed Towards the Enantio-selective Total Synthesis of Sterine. (Kozikowski)
881. LOVELACE, Sherri R. Electrochemical Studies of Reduced Manganese Complexes with Arene, Cyclopentadienyl and Indenyl Ligands (Cooper).
882. MESSINA, Michael. Dynamics of State to State Transitions in Large Quantum Systems. (Coalson)
883. MOYLE, Alfred M., Jr. Studies of Elementary Gas Phase Reactions (Golde).
884. NYSTROM, Nicholas A. Through-bond and Through-space Interactions in a Novel Class of Nonconjugated Polyenes. (Jordan)
885. PERERA Deepamali V. The Chemical Synthesis of Deosyriboligonucleotides. (Chapman)
886. PLUSQUELLIC, David Francis. Aquisition and Analysis of Complex Spectra in the Ultraviolet. Large Amplitude Notion as a Probe of Acid-base Chemistry in the Gas Phase (Pratt).
887. RAMAMOORTHY, P. S. Part I. 1,2-Asymmetric Induction in Radical Reactions. Part II. Studies on Substituent-accelerated Claisen Rearrangements. (Curran)
888. SIKORSKI, Christopher Thomas. Molecular Recognition by Bix-cyclodextrins in the Presence of Phospholipid. (Petter)
889. SWEENEY, Joyce Ann. Ultraviolet Resonance Raman And Two-dimensional Absorption Studies of Protein Structure and Dynamics. (Asher)
890. TOTLEBEN, Michael J. Part I. An Investigation into the Mechanism of the Samarium(II) Promoted Barbier Reaction. Sequential Radical Cyclization Porganometallic Addition. Part II. Conjugate Addition Reactions of Organosamarium Reagents by in site Transmetalation to Cuprates. Part III. Approximate Absorbate Rate Constants for the Reaction of Tributyltin Radicals with Oryl and Vinyl Halides. Part IV. An Investigation into the Synthetic Utility of tri-n-butylgernanium Hydride. (Curran)
891. TSAI, Chung Jung. Theoretical Characterization of Small Argon and Water Clusters. (Jordan)
892. WILT, Truman F. Synthetic Approaches to Concave Functional Groups with Chiral Encasements. (Wilcox)
893. YOO, Byungwoo. Part I. Vinyl Radicals Cyclizations via Free Radical Allylation Reactions. Part II. Asymmetric Radical Allylation Reactions. (Curran)

1993

894. ABRAHAM, Ann Catherine. Part I. 1,2-Asymmetric Induction in Radical Reactions. Deuteration and Allylation Reactions of *o*-oxy-*o*-iodo Anilides. Part II. A Study of Iodine Atom Transfer Isomerizations. (Curran)
895. AHN, Yoonmo. Nucleophilic Addition of Organocerium(III) and Organomanganese(II) Reagents to Carbon-oxygen Bonds Stereoselective Preparation of Spiroacetals. (Cohen)
896. BALLINGER, Todd Howard. The Role of alumina Sites on Surface Chemical Reactions. (Yates)
897. CHENG, Chia-Cheng. Surface Chemistry on Silicon (100). (Yates)
898. CHERKAUSKAS, John P. Carbonyl-protected Beta-lithio Aldehydes and Ketones via Reductive Lithiation: A General Preparative Method for Remarkably Versatile Homoenolate Equivalents. (Cohen)
899. COHEN, Claudia Beth. Progress Towards Sensors Based on Enzyme Immunoassay. Designing Reagentless Devices for the in situ Generation and Detection of Enzyme Substrate. (Weber)
900. DIXON, Robert P. Molecular Recognition and Cleavage of Phosphodiesterases by a Simple Family of Guanidinium and 2-Aminoimidazolium Receptors. (Hamilton)
901. DOLLARD, William Joseph. Electrical and Optical Studies of Interfaces Between Electrolyte Solutions and Semiconductors or Metals. (Waldeck)
902. FAN, Erkang. Molecular Recognition by Directed Hydrogen Bonding. (Hamilton)
903. HARTMAN, Roberta Smouse. Rotational Diffusion as a Probe of Solute/Solvent Interactions. (Waldeck)
904. HELD, Andrew. Rotationally Resolved Optical Spectroscopy. A Probe of the Properties of Hydrogen Bonds. (Pratt)
905. KIM, Yeonhee L. Characterization of Solid Surfaces Using Mass Spectrometry and X-ray Photoelectron Spectroscopy. (Hercules)
906. MILLER, Christopher Paul. Synthetic, Structural and Mechanistic Aspects of Oxazolines, Thiazolines, Oxazoles and Thiazoles. (Wipf)
907. PARK, Namsun. Photoisomerization Dynamics of Stilbenes in Polar and Nonpolar Solvents. (Waldeck)
908. SANDS, William Douglas. Spectroscopy and Dynamics of the He₂Cl₂ van der Waals Complex. (Janda)
909. SHUMAKER, Monique L. Electrochemical and Spectroscopic Studies of Carrier Dynamics in Cadmium Selenide Electrodes. (Waldeck)

910. SMITH, Paul J. The Intramolecular Salt Effect. Rate Enhancement by Local Ion Pairs in Chloroform Solution. (Wilcox)

911. STONER, Timothy C. Conjugated Systems Containing Metal-Metal Multiple Bonds. (Hopkins)

912. THOMPSON, Robert L. Reductive Activation of Aromatic Hydrocarbons Ligated to Manganese Tricarbonyl Fragments and Optical Memory Materials Based on Photochromic Metal Dimers Containing Linear Oxo Bridges. (Cooper)

913. TSAI, Hweiyan. The Electrochemical Detection of Peptides as Their Cu(II) Complexes. (Weber)

914. ZAWACKI, Frank Jeffrey. Synthesis and Characterization of Water Soluble Troger's Base Hosts. (Wilcox)

1994

915. ALBERT, Jeffrey. Approaches Toward the Recognition of Biological Macromolecules Using Synthetic Substrates as Models for Specific Binding Interactions (Hamilton).

916. CHAMPAGNE, Blaise Briggs. High Resolution Studies of Conjugated Polyatomic Molecules and Their van der Waals Complexes. Probing the Effects of Large Amplitude Motions. (Pratt)

917. FIEDOR, Joseph N. Determination of the Distribution of Mo and W oxidation States in Reduced Mo W/TiO₂ Catalysts by X-ray Photoelectron Spectroscopy with Factor Analysis and Curve Fitting. (Hercules)

918. HITTLE, Lucinda. Characterization of Polymers by Time-of-Flight Secondary Ion Mass Spectrometry (Hercules).

919. KUHAR, Katherine A. The Synthesis and Characterization of Amphiphilic Block Copolymers for Interfacial Studies. (Chapman)

920. LEE, Inkyung. Synthesis and Reactivity of Highly Reduced Carbenoid Complexes of Chromium (Cooper).

921. LIN, Chien-Hsing. Asymmetric Radical Cyclizations. (Curran)

922. LIU, Hui. Part I. 4+1 Radical Annulations: Synthesis of Cyclopentaquinolines with Isonitriles via Sequential Radical Cyclizations. Part II. Formal Total Synthesis of (±)-Camptothecin and its Derivatives via 4+1 Radical Annulation (Curran).

923. PFANSTIEL, James. High Resolution Optical Spectroscopy of Conjugated Molecules. Polyenes and Pseudo Polyenes (Pratt).

924. PREIGH, Michael J. Electrochemistry and Analytical Applications of Photochromic Spirooxazines and Spiropyrans. (Weber)

925. SMENTKOWSKI, Vincent. Surface Science Investigation of Tribologically Important Systems. Iron and Diamond. (Yates)

926. SUN, Shunneng. Part I. 1,2-Asymmetric Induction of Acyclic α -oxy Radicals. Part II. (1,2-Asymmetric Induction of Acyclic α -NMR Radicals. Part III. Synthesis of tricyclo [6.3.0.02.6]undecanes. (Curran)

927. VALENTA, Jane. The Development of Enhanced Extraction Media for Phenobarbital Based on Hydrogen Bond-Directed Molecular Recognition (Weber).

928. YU, Hosung. Part I. New Applications of Intramolecular 1,5-hydrogen Transfer Reactions. Part II. The Approach to the Steroid Ring System by Tandem Radical Cyclization. (Curran)

929. ZHANG, Wei. Cyclobutanone-based free Radical Ring Expansions and Annulations. (Dowd)

930. ZIMMERMAN, Paul. Practical Applications of Time-of-Flight Secondary Ion Mass Spectrometry (Hercules).

1995

931. CHO, Namjun. UV Resonance Raman Studies of DNA-Carcinogen Interactions and Peptide & Protein Conformation (Asher).

932. CHEN, Jian-Ge. Development and Applications of Chromatographic and Detection Methods for Potential Neuroactive Carbamates and Peptides (Weber)

933. EVANS, Deborah. Relaxation Theory Approaches to Quantum Dynamics of Condensed Phase Systems (Coalson)

934. KIM, Hong Yong. Part 1. Synthesis of Cyclotheonamide A. Part 2. Synthesis of Ortho Esters From α -amino Acids. Part 3. Synthesis of 7-oxabicyclo[2.2.1]hepta-5-enyl Derivatives (Wipf).

935. KIM, Yuntae. Synthetic and Mechanistic Studies of Epoxyketone Natural Products (Wipf)

936. KUO, Lung Huang. Acceleration of Organic Reactions by Hydrogen Bonding. Synthesis of and Study of A New Class of Arylureas (Curran)

937. LONGLEY, Elizabeth. Product Ion Angle-Energy Distributions in Metastable Helium Penning Ionization (Siska)

938. MANNA, Joseph. Chemistry of Tungsten Methylidyne Complexes (Hopkins).

939. MUDDIMAN, David. Characterization of Immunosuppressants by Time-of-Flight Secondary- Ion and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry (Hercules).

940. NACHTIGALL, Petr. Application of Quantum Chemistry (Jordan).

941. NACHTIGALL, Dana. Theoretical Studies of Electronically Excited States (Jordan).

942. POLLAGI, Timothy. Multiply Bonded Transition Metal Complexes and Polymers. (Hopkins)
943. QI, Hongyan. Asymmetric Radical Additions and Cyclizations (Curran).
944. SMENTKOWSKI, Amy. The Chemical Reactivity of Metal and Metal Oxide Surface (Yates)
945. WEBB, Thomas. Molecular Recognition of Neutral Acyclic Compounds in Aqueous Media (Wilcox).
946. WISE, Elizabeth. Quantitative Evaluation of a Smart Gel: The PVA/Borate System and Its Response to Cis-Diols (Weber)
947. XU, Jiazhan. Infrared Reflection Absorption Spectroscopy Studies of Absorbates on Transition Metal Surfaces (Yates)

1996

948. BALOG, Aaron. Studies of Novel Sequential Radical and Anionic Annulations (Curran)
949. BEVSEK, Holly. Electron Spectroscopic and Theoretical Studies of the Chemical Reaction Dynamics of Molecular Penning Ionization (Siska)
950. BORMETT, Richard. Development of Novel Spectroscopic Instrumentation and Methodologies: Vibrational Circular Dichroism Measurements of Azide Bound to Metalloenzymes and UV Raman Spectroscopy of Chemical Vapor Deposited Diamond (Asher)
951. CHEN, Xingguo. Ultraviolet Resonance Raman Studies of N-Methylacetamide and Related Model Peptides (Asher).
952. DE MELLO, Nicholas. La Chimie Dans L'Espace-Temps: Stereoselection with Time Dependent Methods (Curran)
953. FRITCH, Paul. Synthetic Applications of Peptidyl Thiazolines and Aziridines: The Total Synthesis of Lissoclinum Peptides and the Development of New Methodology for the Preparation of (E)-Alkene Dipeptide Isosteres (Wipf)
954. GARGUILO, Michael. Amperometric Enzyme Sensors for Real-Time Measurements of Peroxide, Choline, and Acetylcholine in the Extracellular Fluid of Brain Tissue in Living Animals (Michael)
955. HAMURO, Yoshitomo. Protein Structure Mimetics: Intramolecular Hydrogen Bonding of Secondary Structure Control and synthetic Antibody Mimetics (Hamilton)
956. HUMPHREY, Susan. Electronic Spectroscopy of Aromatic Alcohols and Their Complexes with Ammonia. Probing Acid-Base Reactions in the Gas Phase (Pratt)
957. KIM, Eun-il. A Study of Electrostatic and Substituent Effects in Binding Catalysis and Intermolecular Interactions (Wilcox)

958. KO, Sung-Bo. Enantioselective Synthesis of Camptothecin Using [4+1] Radical Annulation Reaction (Curran)
959. LIM, Sungtaek. Total Synthesis and Structural Studies of Bisoxazole Marine Natural Products (Wipf)
960. LOVE, Daniel. A Study of Electronic Excitation and Temporary Anion Formation in Molecules by Electron Impact (Jordan)
961. MARRA, Kacey. Synthesis, Characterization, and Applications of Novel, Low Surface Energy Poly(amide urethanes) (Chapman).
962. PALIWAL, Sunil. Design Synthesis and Evaluation of a Molecular Torsion Balance and a Chiral Concave Acid (Wilcox)
963. PALOVICH, Michael. Acygermanes and Acylsilanes as Acceptors in Radical Cyclizations (Curran)
964. QIAN, Yimin. Design, Synthesis and Biological Evaluation of Protein Isoprenyltransferase Inhibitors as Novel Anti-Tumor Agents (Hamilton)
965. RONDON, Sonia. Surface Characterization of Supported Molybdenum Catalysts (Hercules/Treado)
966. VENKATRAMAN, Srikanth. "Azoles and Azole Natural Products"(Wipf)
967. YANG, Ji. Hydrogen-Bonding Controlled Self-Assembly. (Hamilton)
968. ZHANG, Jianxiang. Spectroscopic Probing of Aerosols using Morphology Dependent Simulated Raman Scattering(Aker)
- 1997**
969. BRETSCHER, Lynn. New Insights into the Mechanisms of Action of Aspirin and Saxitoxin, (Dowd).
970. CHEN, Ya. [Ru₂(hedta)]- Complexes of Pyrimidine, Pyridazine, and Pyrazinium Ligands: Studies of 2 and Fluxional Behavior, (Shepherd).
971. DOHNALEK, Zdenek. Chlorine Chemistry of Silicon(100) Surfaces, (Yates).
972. DRESSMAN, Shawn. Voltammetry in Supercritical CO₂ and in the Rat Striatum Using Microelectrode Devices (Michael)
973. DUNLAVY, Deanna. The Collision Energy Dependence of the Penning Ionization of Nitrogen Molecules by Metastable Helium as Determined by Electron Spectroscopy (Siska)
974. FREDERICKS, Sharon. Part I - Theoretical Studies of Hydrogen-Bonded Systems", Part II - Electron Spectroscopy of Organo-metallic Systems, (Jordan)
975. GLAGOVICH, Neil. Design, Synthesis and Evaluation of Water Soluble Macrocyclic Synthetic Receptors, (Wilcox).

976. GU, Xin. Radical and Related Reactions: The Kinetics, Mechanism and Synthetic Applications, (Curran).
977. HOLTZ, John. Development of Responsive Polymerized Crystalline Colloidal Arrays for Sensing Applications (Asher)
978. LINTON, Brian. Recognition of Molecular Anions by Design and Combinatorial Synthesis, (Hamilton).
979. LIU, Hong. "Sulfur Based Synthetic Methodology", (Cohen).
980. PARK, Sang-Hee Ko. Activation of Monoarenes and Polyarenes in Hydrocarbons by Carbonylmetallates, (Cooper).
981. SCIERKA, Stephanie. Determination of the Surface Coverage and Distribution of Cr Oxidation States in Cr/Al₂O₃ Catalysts (Hercules)
982. UTZ, Tracy. Synthesis, Structural Analysis, and Reactivity of Manganese(-1) and Iron(0) and Cobalt(+1) Homoleptic Isonitrile Complexes (Cooper)
983. WEINER, Warren. Carboxylate and N-Acyldipeptide Complexation Through the Use of Directed Hydrogen Bonds by Neutral Abiotic Molecules, (Hamilton).
984. XU, JinYou. Intramolecular Hydrogen Transfer Reactions (Curran)
985. XU, Keyang. Characterization of Polymer Surfaces Using Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS) and Atomic Force Microscopy (AFM) (Hercules).
986. XU, Wenjing. Mechanistic and Synthetic Studies in Organozirconium Chemistry (Wipf).
987. ZAFAR, Abdullah. Self-Assembling Structures Based on Hydrogen Bonding Subunits, (Hamilton)
988. ZHENG, Zhizhen. On the Mechanism of the Anticlotting Action of Vitamin E Quinone (Dowd)
989. ZHAO, Jiang. Gas Phase Approach to Organic Reactive Intermediates, (Dowd).

1998

990. ALWARD, Melinda. The Synthesis, Analysis and Applications of Photoreversible Metal-Ion Chelators, (Weber).
991. ARFORD, Debra. C-C Bond Formation Between Arenes by Reductive Activation of [Mn(arene)(Co)₃]⁺ Complexes, (Cooper).
992. CARR, Jane Johnson. Electronic and Vibrational Spectroscopy of Transition Metal-Main Group Multiple Bonds, (Hopkins).

993. CHEN, Heidi. Design and Synthesis of Receptors as Models for Recognition in Biological Processes, (Hamilton).
994. CHI, Zhenhuan. Ultraviolet Raman Studies of Protein Structure and Folding, (Asher).
995. GU, Yeupeng. Preparation and Characterization of Self-assembled Monolayer on InP Surface and Studies of Electron Transfer at the Semiconductor/Liquid Interface, (Waldeck).
996. HOLTZ, Janet Wang. UV Resonance Raman Examination of Environmental Effects in Protein Secondary Structure, (Asher).
997. JOHN, Kevin. Electronic Materials Based on Metal-Acetylide Complexes, (Hopkins).
998. KERNS, Jeff. Vitamin K Analogs and Their Action Against Hepatocellular Carcinoma: A Case for Tyrosine Phosphatase Inhibitions, (Wilcox).
999. KURNIKOVA, Maria. Dynamics of Polar Molecules and Ions in Solutions and Membrane Channels. (Coalson)
1000. WOVCHEKO, Edward. Bond Activation in Molecules Using Photochemically Generated Catalyst Sites – Rh1(CO)2Al2O3 Chemistry, (Yates). *(All are in alphabetical order except this one because he was our 1000th PhD.)*
1001. LIU, Lei. Crystalline Colloidal Array Hydrogel Materials from Synthesis to Applications, (Asher).
1002. MAHAN, Eric. Hydraamphiphiles: Synthesis of Studies of Novel Linear-Dendritic Block Copolymers, (Chapman).
1003. MAYHUGH, James. Electronic Spectroscopy of Clusters that Exhibit Large Amplitude Internal Motions, (Janda (Siska)).
1004. MORRIS, Hanna. Fluorescence and Raman Chemical Imaging Studies of Thin Film Coated Thermoplastic Olefins, (Treado).
1005. NAGASHIMA, Tadamichi. Samarium Diodide Mediated Tandem Radical-Ionic Reactions: Studies Toward a Penitrem Model, (Curran).
1006. NICOLA, Anthony. A Fundamental Study of the Correlation of Surface Coverage with Secondary Ion Yield in Static Secondary Ion Mass Spectrometry, (Hercules).
1007. ORBAN, Janine. Synthesis, Characterization and Applications of Poly(ether) Grafted Poly(urethane)s, (Chapman).
1008. PAN, Guisheng. Optically Nonlinear Bragg Diffracting Nanosecond Optical Switches, (Asher).
1009. PANT, Dhruv. Optical Waveguides: Modeling and Design Optimization, (Coalson).

1010. PEDULLA, Marc. Theoretical Characterization of Small Water Clusters: Many-body ab initio Interaction Energies and Monte Carlo Simulations Using Polarizable Models, (Jordan).
1011. SCHAEBERLE, Michael. Raman Chemical Imaging. Development and Applications, (Treado).
1012. STAUFFER, Mark. Photochemistry, Electrochemistry and Metal-Ion Binding Properties of Photochromic Chromenes, (Weber).
1013. TURNER, John. Chemical Imaging and Spectroscopy Using Tunable Filters: Instrumentation, Methodology, and Multivariate Analysis, (Treado).
1014. VAIDYANATHAN, Nithya. An AFM Investigation of the Effect of Surface Roughness on the Wetting Properties of Modified Polyurethane Polymers. (Hercules)

1999

1015. BALABAI, Natalya. Rotational Relaxation of Organic Molecules and Their Molecular Complexes in Polar Solvents and Electrolyte Solutions, (Waldeck).
1016. CANTRELL, Gidget. Metal Mediated C=N Bond Forming Reactions with Molybdenum(VI) Complexes, (Meyer).
1017. CARR, Andrew. Gelation of Fluorinated Solvents and Supercritical CO₂ by Hydrogen Bonding Molecules. (Hamilton)
1018. CHRISTEN, Daniel. "Applications of Tandem Ring-Expansion Cyclization Reactions in the Synthesis of Medium-size Ring Compounds", (Curran).
1019. DONG, Xia. Characterization of Polymers and Proteins by Time of Flight Mass Spectrometry. (Michael).
1020. HALE, Gregory. Rotational Features of Carbon-nitrogen Bonds in Axially Chiral *o*-*tert*-butyl Anilides and Related Molecules. Potential Substrates for the "Prochiral Auxiliary" Approach to Asymmetric Synthesis. (Curran).
1021. JUNG, Jae-Kyu. Total Syntheses of Diepoxin and Related Natural Products. (Wipf)
1022. KONDRU, Rama. Assignment of Absolute Stereochemistry by Computation of Optical Rotation Angles. (Beratan)
1023. KURNIKOV, Igor. Theoretical Studies of Long-range Electron Transfer Reactions: Development of New Methods and Applications. (Beratan).
1024. LI, Shu. Capillary Electrophoresis: From Sample Preparation to Separation. (Weber)
1025. MOHNEY, Brian. Protein Conformation and Dynamics of Nitric Oxide Binding to Proteins Investigated by Circular Dichroism and Time-Resolved Absorption Spectroscopy. (Walker)

1026. NKAMBULE, Comfort. The Design and Synthesis of Molecular Armatures for Use in the Synthesis of Functionalized Nanotubes, (Wilcox).
1027. NORTON, Stephen. Theoretical Studies of Reactive Intermediates in Organic Synthesis, (Cohen).
1028. PAJCINI, Vasil. Ultraviolet Raman Single Crystal Studies of Dipeptide Excited States and Electronic Transition Moment Orientations and Development of an Ultraviolet Raman Microspectrometer. (Asher)
1029. RIBBLETT, Jason. Electronic Transition Moment Orientations in Some Substituted Benzenes. (Pratt)
1030. STEVENSON, Margaret. The Synthesis and Characterization of Tungsten Alkylidynes as Building Blocks to Metal-containing Polymers. (Hopkins)
1031. SUKHAREVSKY, Alex. Time-Resolved Studies of the Dynamics of Intermolecular Interactions in Polar Solvents and Restricted Environments, (Waldeck).
1032. XIA, Wanlin. Analytical Studies on Bioactive Amino Acids and Peptides – Sample Preparation, Detection System Development and Applications. (Weber)

2000

1033. AKHREMITCHEV, Boris. Resolving Chemical Dynamics in Time and space: Ultrafast Spectroscopy of Chemical Reactions and Scanning Probe Microscopy of Polymer Interfaces. (Walker)
1034. BOM, David. Implementation of a Radical Cascade Cyclization in Drug Discovery: Total Synthesis of the Silatecans and Homosilaecans. (Curran)
1035. CARDENAS, Alfredo. Theoretical Studies in Multidimensional Quantum Systems and Ionic Permeation Through Biological Channels. (Coalson)
1036. FISHMAN, Vyacheslav. Mass Spectrometry for Fundamental Studies. (Grabowski)
1037. GUALTIERI, Giovanna. Synthesis of Chiral Group 14 Hydrides Containing A C₂-Symmetric binaphthyl Substituent and Their Application in Stereoselective Free Radical Organic Reactions. (Curran)
1038. HANEY, Brian. Studies of Tandem Radical Cyclizations: Synthesis of a Nitrile-based Model System for Crinipellin A and the Total Synthesis of ()-Gymonomitrene and ()-Iso-Gymonomitrene. (Curran)
1039. ISERLOH, Ulrich. Free Radical Chemistry: New Synthetic Methods and Studies Towards Penitrem D. (Curran)
1040. KIM, Sun Young. Detailed Studies on Fluorous Tin Compounds and Combinatorial Approach to the Synthesis of Discodermaolide Analogs. (Curran)
1041. KLINE MUNRO, Nicole. Microfabricated Devices for Clinical Applications. (Landers/Walker)

1042. LI, Wenjie. Studies Towards the Total Synthesis of Tuberostemonone: Formation of Nine-membered Keto-lactams Via an Oxidative Ring Expansion of 4-Hydroxyhydroindoles. (Wipf)
1043. LIU, Weidong. Tandem Radical Reactions and Chirality Transfer in the Radical Cyclization of Axially Chiral Amide. (Curran)
1044. LUO, Zhiyong. Solution Phase synthesis of Small Molecules Using Fluorous Reagents, Catalysts and Protecting Groups. (Curran)
1045. RUSU, Camelia. Photochemistry on TiO₂. (Yates)
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)
1048. VEAUTHIER, Jacqueline. Dienyl Manganese Carbonyl Complexes Prepared from Reduced Hapticity Polyaromatic Hydrocarbon Complexes of Manganese: The Fused Dienyl Effect. (Cooper)
1049. VILA, Fernando. Electron Molecule Interactions. (Jordan)
1050. WANG, Chengfei. Intra- and Inter-molecular Electron Transfer and Vibrational Coupling Studied by Ultrafast Spectroscopy. (Walker)
1051. YANG, Jaemoon. Design and Synthesis of Conformational Isomers for Bioorganic and Combinatorial Chemistry Studies. (Wilcox)
- 2001**
1052. BAO, Jian. Highly Reduced Group VI Metal Carbonyl Complexes and Their Reactions with Electrophiles. (Cooper)
1053. BELL, Stephen. Main-group and Transition-metal Mediated Processes for the Formation of C=N and C-O bonds. (Meyer)
1054. BORST, David. Ultra High Resolution Spectroscopy of Large Polyatomic Molecules. (Pratt)
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)
1060. KUZNETSOVA, Anna. Surface Chemistry Studies: A. Surface Phenomena on Single Walled Carbon Nanotubes. B. Novel Corrosion Passivation of Aluminum. (Yates)
1061. MAWHINNEY, Douglas. Infrared Studies of Adsorption and Reaction Processes on High Surface Area Materials. (Yates)
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)
1068. WAN, Zhonghui. Catalyzed Asymmetric Acyl Halide-Aldehyde Cyclocondensation: A New Strategy for catalyzed Asymmetric Aldol Bond Construction. (Nelson)
1069. WARD, Matthew. Transition Metal Complexes as Agents to Bind and Release Nitric Oxide. (Shepherd)

2002

1070. BEMIS, Jason. Molecular Level Polymer Dynamics at Surfaces Investigated by Single Molecule Force Spectroscopy. (Walker)
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)

1073. DU, Wu. Cascade Radical Cyclization: Application in the Development of New Anticancer Drug of Camptothecin Family and the Development of New Synthetic Method. (Curran)
1074. HOPKINS, Corey. Studies Toward the Total Synthesis of Naphthyridinomycin/Bioxalomycin Antitumor Antibiotics. (Wipf)
1075. KULAGINA, Nadezhda. Microsensors for Monitoring Chemical Communications between Brian Pathways. (Michael)
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)
1078. OZDEMIR, Abdil. Structural Studies of Peptides by UV Resonance Raman and Mass Spectrometry. (Grabowski)
1079. PEELEN, Timothy. Catalytic, Asymmetric Aldol Reaction Equivalents: Development and Mechanistic Studies of Lewis Acid Catalyzed Halide-Aldehyde Cyclocondensations. (Nelson)
1080. POPOVA, Irene. On the Mechanism of Al Oxidation. (Yates)
1081. RECTOR, Stacy. The Total Synthesis of the Stemonia Alkaloid (-)-Tuberostemonine. (Wipf)
1082. REEVES, Jonathan. Total Synthesis and Structure-Activity Studies of Marine Natural Products". (Wipf)
1083. STRINGFIELD, Thomas. Tungsten(0), Palladium(II), and Ruthenium(II) Complexes with Bio-Compatible Ligands for Potential Antitumor or Antiviral Applications. (Shepherd)
1084. WANG, Xiaodong. Development of New Methodologies in Organometallic Chemistry and Combinatorial Synthesis. (Wipf)
1085. WARD, Rachel. Synthesis and Characterization Of Polyaniline Derivatives. (Meyer)
1086. WILLIAMS, John. Matrix Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry of Synthetic Polymers. (Chapman)
1087. YANG, Hua. Quantitative Investigation of Extracellular Dopamine Concentration in Rat Striatum by Simultaneous Voltammetry and Microdialysis. (Michael)
1088. YAMAMOTO, Hiromichi. Experimental Studies of Fundamental Issues in Electron Transfer through Nanometer Scale Devices. (Waldeck)

2003

1089. AL-MAAWALI, Sabah. Polydispersity of Polymer Surfaces Using Single Molecule Atomic Force Microscopy. (Walker)
1090. BEISLER, Amy. Development of Capillary Separation Systems for the Determination of Proteins and Peptides. (Weber)
1091. BOSANAC, Todd. Applications of Precipitons in Organic Synthesis. (Wilcox)
1092. FOMENKO, Vasiliy. Nonlinear Optical Spectroscopy and Dynamics of Hot Carriers at Semiconductor Interfaces. (Borguet)
1093. GEARY, Caroline. Electrochemical Investigation of Metal Ion Complexations for Use in Analytical Applications. (Weber)
1094. KHAN, Amina. Voltammetry as a Tool for Monitoring Dopamine Regulation in the Straitum. (Michael)
1095. KREETHANDUMRONGDAT, Thanapong. Mechanistic and Synthetic Studies of Organolithiums. (Cohen)
1096. MENZ, Terri. Poly(amino acids) for Drug and Gene Delivery. (Chapman)
1097. MEZHENNY, Serge. Nanostructuring and Imaging by STM. (Yates)
1098. REESE, Chad. Development of a Biophysical Reactor for Pharmacodynamic Studies of Taxol Using Field Flow Fractionation. (Asher)
1099. STAN, Magadalena. Efficient Asymmetric Construction of Building Blocks for Natural Products Synthesis. (Nelson)
1100. WANG, Feng. A Drude Model Approach to Dispersion Interactions in Dipole-bound Anions. (Jordan)
1101. ZHANG, Qisheng. Fluorous Mixture Synthesis Approach to Natural Product Stereoisomers: Synthesis of Both Enantiomers of Pyridovericin and Mappicine and Eight Isomers of Murisolin. (Curran)
1102. ZHANG, Xu. Study of Selective Extraction of Barbiturates in Plasticized poly(vinyl chloride) Membrane. (Weber)

2004

1103. AUBELE, Danielle. Mechanistic and Stereochemical Studies of Photoinduced Electron Transfer Initiated Cyclization Reactions: The Role of Nitrogen. The Aqueous Prins Reaction and Efforts Towards the Total Synthesis of (+)-Dactylolide. (Floreancig)

1104. BADGER, Paul. Novel Ligands for Sensitization and Protection of Near-Infrared Luminescent Lanthanides. (Petoud)
1105. BRENNAN, Carrie. Surface Plasmon Resonance Investigations of Prussian Blue Films for a Sensor Application and Characterization of Single Cell Electroporation. (Weber)
1106. CHRISTIE, Richard. Theoretical Studies of Hydrogen-Bonded Clusters. (Jordan)
1107. DANDIPANI, Sivaraman. Fluorous Mitsunobu Reactions and Total Synthesis of Sixteen Stereoisomers of Pine Sawfly Sex Pheromone by Fluorous Mixture Synthesis. (Curran)
1008. DENG, Kai. Sulfur Based Cyclizations by Intramolecular Carbonylation and Applications to Natural Product Synthesis. (Cohen)
1009. JOO, Beomjun. Synthetic Studies toward Biologically Active Quinones and Alkaloids. (Wipf)
1110. KASSICK, Andrew. Catalytic, Asymmetric Acyl Halide-Aldehyde Cyclocondensations in Complex Molecular Synthesis and Application to the Installation of Stereocenters. (Nelson)
1111. KENDALL, Christopher. Hydrozirconation/Zr-Zn Transmetalation/Aldimine Additions: One-pot Synthesis of Allylic, C-Cyclopropylalkyl, and Homoallylic Amines from Alkynes. (Wipf)
1112. KNAPTON, Daniel. Transition Metal Mediated Carbon-Heteroatom and Carbon-Carbon Bond Formation: Studies in Multi-component Coupling Reactions and Ring-closing Metathesis. (Meyer)
1113. LEE, Christopher. Synthesis and Studies Directed Toward Multidrug Resistance Modulating Natural Products. (Flores)
1114. LEE, Jae-Gook. Studies of Molecular-assembly on Metal Surfaces Using Surface Science Techniques. (Yates)
1115. LEE, Keri. Synthesis and Characterization of Dendritic Poly(L-lysine)Based Polymers for Use in Tissue Engineering. (Chapman)
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)
1118. MAUER, Marta. Photochemical Control of Photonic Crystal Diffraction. (Asher)
1119. RIBE, Seth. Synthetic and Mechanistic Studies in Asymmetric Organozirconium Chemistry. (Wipf)
1120. SECREST, Patricia. Photochromism of d1-d1 Oxo Bridged Dinuclear Complexes. (Cooper)
1121. SKILLMAN, Charles. Hydraamphiphiles: Poly(ethylene glycol)-Supported Polylysine Dendrimers as Biocompatible Surfactants. (Chapman)

1122. WEI, Jianjun. Heterogeneous Electron Transfer of Supramolecular Assemblies. (Waldeck)
1123. YE, Tao. Structure, Dynamics, and Reactivity of Molecular Assemblies at Interfaces. (Borguet)
1124. ZUBKOV, Tykhon. Bonding and Chemistry of Small Molecules Chemisorbed on Atomically-Stepped Metal Surfaces. (Yates)

2005

1125. BAYDEN, Alexander. Modeling Organorhodium Catalysis. (Jordan)
1126. BORLAND, Laura. Studies into the Accuracy of Chemical Measurements in the Brain: New Insights into Dopaminergic Mechanisms by Fast-Scan Cyclic Voltammetry and Microdialysis. (Michael)
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)
1130. HOPKINS, Tamara D. Studies in Natural Product Chemistry: Synthesis of Palmarumycin CP1 Analogs and Total Synthesis and Structure Validation of (+) – Bistramide C. (Wipf)
1131. KANG, Cheolhwa. Structures, Charge Distributions, and Dynamical Properties of Weakly Bound Complexes of Aromatic Molecules in their Ground and Electronically Excited States. (Pratt)
1132. LAPIERRE, Andre. Chirality Transfer in 5-exo cyclizations of Axially Chiral o- iodoanilides. (Curran)
1133. LIU, Hanbin. Improved Sampling in Monte Carlo Simulations of Small Clusters. (Jordan)
1134. LIU, Min. Electron Transfer Through u-shaped Donor-bridge-acceptor Molecules and Fluorescence Quenching of Conjugated Polyelectrolyte. (Waldeck)
1135. MA, Gil. Design and Synthesis of Organic Molecules with New Physical and Biological Properties. (Wipf)
1136. MEADOWS, Pamela. The Mechanical Unfolding of Fibronectin using Atomic Force Microscopy and It's Relevance to Biocompatibility Studies. (Walker)
1137. NGUYEN, Tri. Spectroscopy of Biomolecules in the Gas Phase. (Pratt)
1138. RECH, Jason. The Development of an Electron Transfer Initiated Cyclization Approach Toward the Total Synthesis of Mycalamide B. The Synthesis of the N7-C25 Fragment of Psyberin. (Floreancig)
1139. ROMANOV, Vyacheslav. Unified Microscopy and Spectroscopy for Nanoscale Chemical Imaging. (Walker)

1140. SCOTT, Colleen Gilles. Synthetic Developments in Organic and Supramolecular Chemistry. (Wilcox)
1141. SEIDERS II, John R. The Development of Novel Electron Transfer Initiated Cyclization (ETIC) Reaction: The Discovery of the Diastereoselective ETIC and Its Application Toward the Total Synthesis of Leucascandrolide A. (Floreancig)
1142. SHIN, Youseung. Total Synthesis of the Macrolactone Anticancer Agent Dictystatin and Analogs. (Curran)
1143. STEBOUNOVA, Larissa. Scanning Near-Field Optical Microscopy for Measuring Materials Properties at the Nanscale. (Walker)
1144. STEPHENSON, Corey. Novel Cascade Reactions of Alkylzirconocenes and their Application to the Synthesis of Cyclopropyl Peptide Mimetics. (Wipf)
1145. SUN, Yujie. Mechanics of Particle and Polymer Assemblies. (Walker)
1146. TANGIRALA, Raghuram. Cascade Radical Cyclization: Application to the Development of Novel Camptothecin Analogs and a Short Synthesis of Luotonin A and its Analogs. (Curran)
1147. TIVANSKI, Alexei. Spatially and Temporally Resolved Studies of Electron Transfer Reactions in Solutions and Thin Organic Surfaces. (Walker)
1148. TRIPP, Jonathan. Stereochemistry of Hexenyl Radical Cyclizations with tert-Butyl and Related Large Groups: Substituent and Temperature Effects. (Curran)
1149. TSAI, Ming-Kang. Theoretical study of solvation of ions by argon atoms. (Jordan)
1150. WANG, Lijun. Carbon-Carbon Bond Construction Using Electron Transfer Initiated Cyclization Reactions. Ruthenium-Catalyzed Hydroesterification and its Application Towards the Synthesis of Integramycin. (Floreancig)
1151. YI, John T. High Resolution Electronic Spectroscopy of Large Polyatomic Molecules: Structures, Interactions and Electronic Distributions. (Pratt)
1152. YOU, Lingfeng. I. Synthetic efforts towards ingenol. II. Cross-conjugated Trienes and Their Application to Rapid Increase in Molecular Complexity. (Bummond)
1153. ZHAO, Hong. Molecular Selectivity in Fluorous Media and Determination of Barbiturates with Capillary Electrophoresis (CZE and MEKC). (Weber)

2006

1154. BIRD, Gregory. Applications of Bis-amino Acid Oligomers. (Schafmeister)

1155. COPENHAFER, James. Synthesis and Characterization of Poly (9,9-dihexylfluorene-mb-methylene)s. (Meyer)
1156. GOPALARATHNAM, Apsara. Efforts towards the Total Synthesis of Amphidinolide B. (Nelson)
1157. GRAHAM, Thomas H. Synthesis of Oxazole-containing Natural Products. (Wipf)
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)
1161. MENG, Rong. Studies of Cu(II) Complexes of Bioactive Peptides. (Weber)
1162. THOMPSON, Tracy L. Photocatalysis on Titanium Dioxide Surfaces. (Yates)
1163. TIKHONOV, Alexander. I. Theory of Laser Driven Molecular Wires. II. Light Diffraction by Colloidal Crystals – Numerical Simulations for Realistic Finite Systems Using Single Scattering Theory. (Coalson)
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)
1167. YANG, Fanglong. Total Synthesis of Puralin and its Analogs; Synthesis of Lagunapyrone B and its Isomers with Fluorous Mixture Synthesis. (Curran)

2007

1168. ALBERT, Brian. Chemical and Biological Studies of Antitumor Natural Product FR901464 and the Development of the Silver/Zirconium-Promoted Alkynylation Reaction. (Koide)
1169. ALVAREZ, Leonardo. Molecular Excited State Dynamics via High Resolution Electronic Spectroscopy in the Gas Phase. (Pratt)
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)
1177. JAYASURIYA, Nilukshi. Asymmetric Alkenyl Zirconocene/Zinc Additions to Aldehydes and Synthetic Efforts Toward Pseudotrienic Acid A. (Wipf)
1178. KAUR, Pawlinder. Aggregation of Conjugated Polyelectrolytes in Dilute Solutions and Transmission Spectroscopy Based on Metal Nanoslit Arrays. (Waldeck)
1179. KELLER, Adam. Homolytic Aromatic Substitution, Conformational Dynamics of Dihydrophenanthridines, and Amide Synthesis with Fluorous Technology: Methodologies in Reaction, Analysis, and Separation. (Curran)
1180. KIM, Sunhee. Molecular Diffusion, Adsorption and Reaction on Oxide Surfaces as Studied by FT-IR. (Yates)
1981. KIMBLE, Kyle. Advanced Hydrogels for Photonic Crystal Materials. (Asher)
1182. KONDRATYUK, Petro. Physical Adsorption of Single Wall Carbon Nanotubes. (Yates)
1183. MAKSYMOWYCH, Petro. Novel Surface Chemistry of Single Molecules and Self- assembled Structures by Scanning Tunneling Microscopy. (Yates)
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)
1186. MITASEV, Branko. Transition Metal-catalyzed Reactions of Allenes in Diversity-oriented Synthesis. (Brummond)
1187. MORGAN, Gregg. Adsorption of N₂ on Ru(109) and Ru(001) as Studied by TPD and IRAS. (Yates)
1188. MORGAN, Paul. Synthesis of Bis-Amino Acid Oligomers and Determination of Their Structure by NMR. (Schafmeister)

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)
1193. STEVENS, Benjamin. Applications of Iridium Catalyzed Isomerization Claisen Rearrangements to Complex Molecule Synthesis. (Nelson)
1194. TAORMINA, Christopher. Mass Spectrometric Analysis of Biological Molecules. (Grabowski)
1195. TURKYILMAZ, Serhan. Oligomeric Ethylene Glycols as Sorting Tags for Combinatorial Synthesis. (Wilcox)
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)
1200. YUE, Hongjun. Interfacial Electron Transfer of Cytochrome c on Self-assembled Monolayer and Conjugated Polyelectrolyte/Surfactant complexes Studied by Fluorescence Correlation Spectroscopy. (Waldeck)
1201. ZHU, Guangyu. Cell-based and Biochemical Screens for Small-molecule Inhibitors of Dynein and of HSP70. (Day)
- 2008**
1202. AHMED, Zeeshan. UV-Resonance Raman Studies of Small Peptides. (Asher)
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)
1208. GREEN, Michael. An Investigation of the Pederin Family: Total Synthesis of Theopederin D; Synthesis and Determination of the Relative and Absolute Configuration of Psymberic Acid. (Floreancig)
1209. GUDIPATI, Venugopal. Mixture Synthesis of a 16-Member Murisolin Stereoisomer Library & Synthesis of C1-C20 and C21-C40 Fragments of Tetrafibricin. (Curran)
1210. GUTHRIE, David. Mechanism and Chirality Transfer in Cyclizations of Amides and Related Compounds. (Curran)
1211. IVANOV, Roman. Generalization of Highly γ -Selective Alkylation of Allyl Halides and Phosphoric Esters (γ -SAL Allylic Substitutions) by Alkylzinc Halides and its Application in Metallo-ene Cyclizations. The Superiority of Properly Prepared Lithium 1-N,N-Dimethylaminonaphthalenide over other Aromatic Radical-anions for the Generation of Organolithiums. (Cohen)
1212. JUNG, Won-Hyuk. Total Synthesis of Dictyostatin Analogs for Anticancer Agents. (Curran)
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)

2009

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)

2010

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)

2011

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)

2012

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)

2013

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)

2014

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)

2015

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)

2016

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)

2017

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)

2018