

RECENT SENIOR THESIS AND ESSAY TITLES

Theses:

Boronic Acid-Appended bis-Viologens as a New Family of Viologen quenchers in a Two-Component Saccharide Sensing System

Indium-Mediated Barbier-Type Allylations of Aldehydes as a Convenience Method for the Highly Enantioselective Synthesis of Homoallylic Alcohols

A quantitative study of the environmental factors controlling abiotic-photo-demethylation of MMHg in wetland surface waters

Synthesis, Characterization and Investigation with Yeast of Silica and PEG functionalized CdTe quantum Dots

Synthesis of Photoactive Manganese Nitrosyls and their Polymer Conjugates for Controlled Release of Nitric Oxide

Synthetic Analogues of Iron-Containing Nitrile Hydratase

Essays:

Carbon Monoxide Dehydrogenase/Acetyl-CoA Synthase—The Controversy Over the Metal Center in a Unique Three-Metal Enzyme

Coherent and Optimal Control: Laser Controlled Chemistry

Energy Transfer Involving Phosphorescent Molecules with an Application to Guest-Host Inclusion Phenomena

Modern Elastomers

Polyhydroxyalkanoates: Plastics Made and Degraded by Microorganisms

Artemisinin: A Chinese Antimalarial for the Treatment of *Plasmodium falciparum* Malarial Infections Resistant to the Classical Drugs

Bonding Pictures—Localized and Delocalized