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TITOLO

Quantum Chemical Modeling of Hydrogen Bonding in Ionic Liquids
 Helical Polyacetylenes Induced via Noncovalent Chiral Interactions and Their Applications as Chiral Materials
 Ionic Liquids in Lithium-Ion Batteries
 Recent New Methodologies for Acetylenic Polymers with Advanced Functionalities
 Construction of Polyarylenes with Various Structural Features via Bergman Cyclization Polymerization
 Recent Developments in the Synthesis of Cyclic Carbonates from Epoxides and CO
 Molecular States
 Synthesis of Ureas from CO₂
 Synthesis of Carbonates from Alcohols and CO₂
 Decorated and Modified Graphenes as Electrodes in Na and Li-Ion Batteries
 Perovskite Luminescent Materials
 Phosphorescent Neutral Iridium (III) Complexes for Organic Light-Emitting Diodes
 Luminescent Metal-Containing Polymers for White Light Emission
 Organic Light-Emitting Devices with Tandem Structure
 Radiation Engineering of Multifunctional Nanogels
 Applications of Accelerators and Radiation Sources in the Field of Space Research and Industry
 Synthesis of Photoactive Materials by Sonication: Application in Photocatalysis and Solar Cells
 Nanostructured Materials Synthesis Using Ultrasound
 Solar Energy Conversion in Photoelectrochemical Systems
 Light-Emitting Electrochemical Cells
 Solar Filters: A Strategy of Photoprotection
 Luminescent Chemosensors: From Molecules to Nanostructures
 Phototherapeutic Release of Nitric Oxide with Engineered Nanoconstructs
 Gold-Based Nanomaterials for Applications in Nanomedicine

Inorganic Nanoparticles for Photodynamic Therapy
 Asymmetric Iridium-Catalyzed C–C Coupling of Chiral Diols via Site-Selective Redox-Triggered Carbonyl Addition
 Advanced and In Situ Analytical Methods for Solar Fuel Materials

Theoretical Approaches for Understanding the Interplay Between Stress and Chemical Reactivity
 Assessment of Simple Models for Molecular Simulation of Ethylene Carbonate and Propylene Carbonate as Solvents for Electrolyte Solutions:
 Chiral Derivatizing Agents, Macrocycles, Metal Complexes, and Liquid Crystals for Enantiomer Differentiation in NMR Spectroscopy
 Rhodium-Catalyzed Hydroformylation in Fused Azapolycycles Synthesis
 Hydroformylation in Natural Product Synthesis
 The Role of Metals and Ligands in Organic Hydroformylation
 Hydroformylation in Aqueous Biphasic Media Assisted by Molecular Receptors
 Non-catalytic Regulation of Gene Expression by Aminoacyl-tRNA Synthetases
 Role of Aminoacyl-tRNA Synthetases in Infectious Diseases and Targets for Therapeutic Development
 Why Is N-Glycylneuraminic Acid Rare in the Vertebrate Brain?
 Protein Conformational Disorder and Enzyme Catalysis
 Allosteric Activation Transitions in Enzymes and Biomolecular Motors: Insights from Atomistic and Coarse-Grained Simulations
 Relationship of Femtosecond–Picosecond Dynamics to Enzyme-Catalyzed H-Transfe
 Surface-Active Organics in Atmospheric Aerosols
 Emerging Areas in Atmospheric Photochemistry
 Improving NMR and MRI Sensitivity with Parahydrogen
 New Insights into the Tropospheric Oxidation of Isoprene: Combining Field Measurements, Laboratory Studies, Chemical Modelling and Quantum Theory
 The Solid-State Photo-CIDNP Effect and Its Analytical Application
 Mass Spectrometry in High-Throughput Clinical Biomarker Assays: Multiple Reaction Monitoring

Application of Mass Spectrometry in Newborn Screening: About Both Small Molecular Diseases and Lysosomal Storage Diseases
 Elucidating Organic Reaction Mechanisms Using Photo-CIDNP Spectroscopy
 Competitive Solvation and Chemisorption in Silver Colloidal Suspensions
 Next Generation Sequencing: Chemistry, Technology and Applications
 Structured Crowding and Its Effects on Enzyme Catalysis
 Analysis and Observation of Polymer Crystal Structures at the IndividualStem Level
 The Effect of Self-Poisoning on Crystal Morphology and Growth Rates
 Effect of Molecular Weight and Melt Time and Temperature on the Morphologyof Poly(tetrafluoroethylene)
 Functions and Biosynthesis of O-Acetylated Sialic Acids
 Small angle scattering study of poly(methylmethacrylate)-blockpoly(ethylene oxide) block co-polymer in aqueous solution
 Electronic Stress as a Guiding Force for Chemical Bonding
 Controlling Supramolecular Assembly Using Electronic Effects
 Uronic Acids in Oligosaccharide and Glycoconjugate Synthesis
 Active–Latent Thioglycosyl Donors and Acceptors in Oligosaccharide Syntheses
 Influence of Protecting Groups on the Reactivity and Selectivity of Glycosylation: Chemistry of the 4,6-O-Benzylidene Protected Mannopyranosyl Donors and F
 Relation between the IR spectrum of water and decarboxylation kinetics in microemulsions
 Structure and dynamics of polymer-like reverse micelles
 Adsorption of n-alkyl polyoxyethylene glycol ethers at liquid-vapour and liquid-liquid interfaces
 Thermal fluctuations of small vesicles: observation by dynamic light scattering
 NMR studies of food emulsions: the dispersed-phase self-diffusion coefficient calculated by the least variance method

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