Cluster
Perspectives on Organoheteroatom and Organometallic Chemistry

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Perspectives for Uranyl Photoredox Catalysis

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Enantioselective Functionalization of Prochiral Cyclobutanones and Cyclobutenones

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readily available substrates
enol metal intermediates
enamine intermediates
versatile cyclobutane derivatives
highly enantioenriched products

Cluster Preface: Perspectives on Organoheteroatom and Organometallic Chemistry

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Modern Organoselenium Catalysis: Opportunities and Challenges

Organo selenium catalysis

Various Substrates

\[ \text{electrophilic selenium} \]

\[ \text{selenium salt} \]

\[ \text{EWG-} \text{Se-} \text{R} \]

\[ \text{chalcogen bond} \]

\[ \text{Lewis basic selenides} \]

Functionalized Products

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Titanium: A Unique Metal for Radical Dehydroxylative Functionalization of Alcohols

\[ \text{Ti(III)} \text{ homolysis} \]

\[ \text{R}^1 \text{R}^2 \text{R}^3 \text{OH} \]

\[ \text{R}^1 \text{R}^2 \text{R}^3 \text{R}^4 \text{Ti(III)} \]

\[ \text{R} = \text{H} \text{ or C} \]

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Sulfur-Mediated Reactions through Sulfonium Salts and Ylides

\[ \text{sulfonium salt} \]

\[ \text{sulfonium ylide} \]

\[ \text{one-pot reactions} \]

\[ \text{simple alkenes or alkynes} \]

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A Glimpse and Perspective of Current Organosilicon Chemistry from the View of Hydrosilylation and Synthesis of Silicon-Stereogenic Silanes

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Recent Advances and the Prospect of Hypervalent Iodine Chemistry

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Recent Advances of Chlorination in Organic Solar Cells

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Synlett 2021, 32, 1303–1308
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Recent Progress in the Gold-Catalyzed Annulations of Ynamides with Isoxazole Derivatives via α-imino Gold Carbenes

 isoazoles  isoazole derivatives
benzisoazoles α-imino gold carbenes

Strategies of In Situ Generated Magnesium Catalysis in Asymmetric Reactions

Perspective on Organoboron Chemistry

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Manganese-Catalyzed C(sp²)–H Addition to Polar Unsaturated Bonds

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Perspectives for Uranyl Photoredox Catalysis

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Chromium-Catalyzed Cross-Coupling Reactions by Selective Activation of Chemically Inert Aromatic C–O, C–N, and C–H Bonds

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Recent Advances in C–Br Bond Formation

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Iridium(III)-Catalyzed C–H Functionalization of Triarylphosphine Oxides with Diazo Dicarbonyl Compounds: Synthesis of α-Aryl 1,3-Dicarbonyl Derivatives

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