Diversity-Oriented Synthesis of Highly Functionalized Alicycles across Dipolar Cycloaddition/Metathesis Reaction

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Imide-Functionalized Helical PAHs: A Step towards New Chiral Functional Materials

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Transition-Metal-Catalyzed Hydroxylation Reaction of Aryl Halide for the Synthesis of Phenols

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**Designed Synthesis of Diversely Substituted Hydantoinos and Hydantoin-Based Hybrid Molecules: A Personal Account**

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**Diversity-Oriented Synthesis of Highly Functionalized Alicycles across Dipolar Cycloaddition/Metathesis Reaction**

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**Electrochemical Synthesis of 2-Bromoethyl and 2-Iodoethyl Ketones from Cyclopropanols**

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[Diagram and images related to the synthesis of hydantoinos and electrochemical synthesis.]
Flexible Resistance-Type Strain Sensors toward Monitoring Finger Movements

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Multiple Activation Catalyst for Asymmetric [4+2] Cycloaddition of Aldehydes with Dienes

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A New Synthetic Route to (Trifluoromethyl)quinolines: Nickel-Catalyzed Insertion of an Alkyne into an Aromatic C–S Bond by Formation of a Thianickelacycle and Thermal Desulfidation

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The Silicon–Hydrogen Exchange Reaction: Catalytic Kinetic Resolution of 2-Substituted Cyclic Ketones

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The exchange reaction of a 2-substituted cyclic ketone with a silane proceeds under catalysis by IDPi (1 mol%). The reaction yields the ketone in up to 65:1 r.r., up to 211 s up to 211.

A Rh(II)- or Ag(I)-Catalyzed Formal C–O Bond Insertion of Cyclic Hemiaminal with Aryl Diazooacetate

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X. Liu
X. Xie
L. Deng
X. Xu
A. S. Chan
W. Hu*
Sun Yat-Sen University, P. R. of China

A Rh(II)- or Ag(I)-catalyzed reaction of a cyclic hemiaminal with aryl diazoacetate yields the corresponding product in 50%–93% yield and up to 88:12 dr.

Ru(II)-Catalyzed C–H Activation Reaction between 2-Phenylquinazolinone and Vinylene Carbonate

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A Ru(II)-catalyzed reaction between 2-phenylquinazolinone and vinylene carbonate yields the corresponding product in 118 °C, 24 h. The reaction is notable for its mild conditions, broad substrate tolerance, and excellent chemoselectivity.

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Pyrroloimidazoliones Derived from Aminomalonates and Benzaldehydes

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1,3-Dipolar [3+3] Cycloaddition of 1,4-Benzodiazepinone-Based Nitrones with α-Halohydroxamates for Diastereoselective Synthesis of Novel δ-Edge Heterocycle-Fused 1,4-Benzodiazepinones

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