Synthesis of Secondary Amines with Long Chains Containing Ether Bonds

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Palladium-Catalyzed Site-Selective Arylation of α,β-Unsaturated Carbonyl Compounds through a Ligand-Controlled Strategy

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Assembling Chiral Center of Heterocycles by Palladium-Catalyzed Asymmetric Hydrocarbonylation

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Development of Heterocyclic Multicomponent Reactions through Guided Exploration: Direct, Reasonable and Unpredictable Processes

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Biomimetic Diels–Alder Reactions in Natural Product Synthesis: A Personal Retrospect

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The Contributions of Model Studies for Fundamental Understanding of Polymer Mechanochemistry

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Heterocyclic Mechanophores in Polymer Mechanochemistry

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Mechanochemical Reactions
- Ring-opening reaction
- Cycloaddition
- Isomerization
- Inter(π-π) or (π-π) cycloaddition

Applications
- Cross-linking
- Polymer degradation
- Mechanochromism

Types of Heterocyclic Mechanophores
- 3-Membered rings
- 4-Membered rings
- 6-Membered rings
- Bicyclic compounds

Synthetic Methodology
- SET-LRP
- ED-ROMP
- Curing
- Post-modification

Triazole-Extended Anthracenes as Optical Force Probes

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Mechanochemiluminescent Hydrogels for Real-Time Visualization of Chemical Bond Scission

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Pulling Outward but Reacting Inward: Mechanically Induced Symmetry-Allowed Reactions of cis- and trans-Diester-Substituted Dichlorocyclopropanes

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Stereoelectronic Effects in Force-Accelerated Retro-Diels–Alder Reactions

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Mechanochemical Synthesis of Diarylethynes from Aryl Iodides and CaC₂

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Insight into the Reactivity Profile of Solid-State Aryl Bromides in Suzuki–Miyaura Cross-Coupling Reactions Using Ball Milling

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**solid-state cross-coupling**

![Diagram showing solid-state cross-coupling reaction involving aryl bromides, Pd/SPhos, CsF, H2O, and 1,5-cod ball milling to produce coupling products.]

**correlation between reactivity and mp**

[Graph showing correlation between yield (%) and melting point of aryl bromides (°C).]