Radical-Mediated Difunctionalization of Styrenes

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Advances in C(sp^3)–H Bond Functionalization via Radical Processes

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Recent Progress on the Synthesis of CF₂H-Containing Derivatives

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Stereoselective Synthesis of syn-γ-Hydroxynorvaline and Related α-Amino Acids

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Sumanene Hexaester: An Electron-Deficient Buckybowl

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Easy Access to 2-Fluoro- and 2-Iodo-2H-azirines via the Halex Reaction

Methyl-α-D-glucopyranoside as Green Ligand for Selective Copper-Catalyzed N-Arylation

Total Synthesis of Enisorine D and its Analogues
Efficient Synthesis of Pyrido[3,2-c]coumarins via Silver Nitrate Catalyzed Cycloisomerization and Application to the First Synthesis of Polyneomarine C

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Regioselective Diboron-Mediated Semireduction of Terminal Allenes

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Transition-Metal-Promoted Oxidative Cyclization To Give 1,2,4-Trisubstituted Carbazole Scaffolds

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Divergent Synthesis of Various 2-Aryl Iminocyclitols from (R)-p-Hydroxyphenylglycine

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Key Features
1. OsO₄-catalyzed dihydroxylation
2. Base-promoted intramolecular cyclization
3. Pyrrolidine and piperidine alkaloids

Copper-Catalyzed Nitrogenation of Aromatic and Aliphatic Aldehydes: A Direct Route to Carbamoyl Azides

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Copper catalysis
Aliphatic aldehydes and aryl aldehydes
TBPB as the oxidant and initiator
Yield up to 93%

Synthesis of 5-Substituted 2-Pyrrolidinones by Coupling of Organozinc Reagents with Cyclic N-Acyliminium Ions

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11 examples
25–75% yield
R¹ = allyl, benzyl, propargyl
R² = benzyl, butyl, Boc, allyl, homoallyl, p-methylbenzyl, piperonyl