Synthesis

Reviews and Full Papers in Chemical Synthesis

2022
Vol. 54, No. 1
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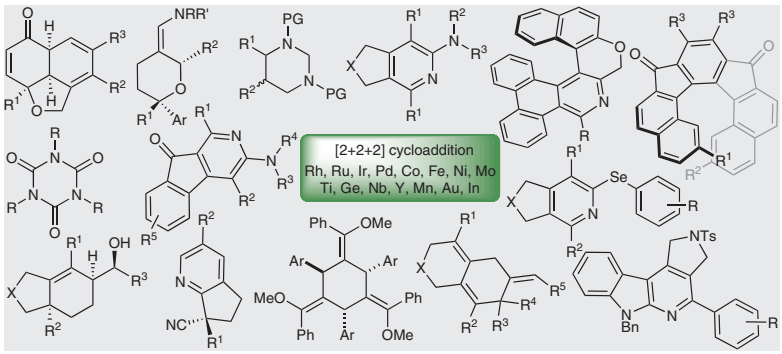

Synthesis

Synthesis **2022**, *54*, 33–48
DOI: 10.1055/s-0040-1719826

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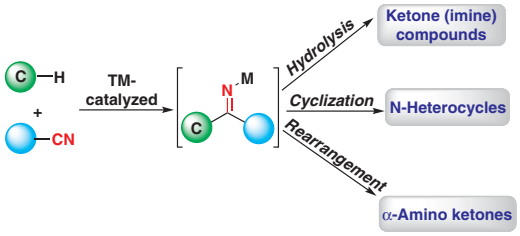
Recent Advances in Transition-Metal-Catalyzed C–H Addition to Nitriles

Short Review



Synthesis

Synthesis **2022**, *54*, 49–66
DOI: 10.1055/a-1605-9572

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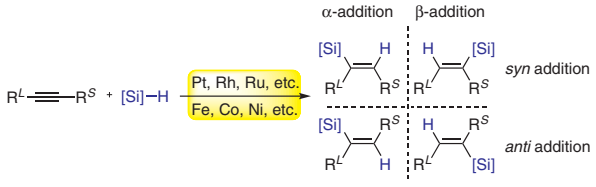
Transition-Metal-Catalyzed Stereo- and Regioselective Hydrosilylation of Unsymmetrical Alkynes

Short Review



Synthesis

Synthesis **2022**, *54*, 67–78
DOI: 10.1055/a-1578-2911

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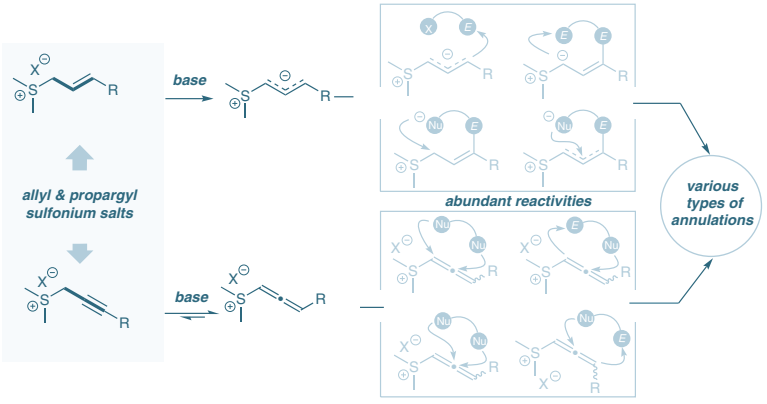
Recent Advances on Annulation Reactions with Allyl and Propargyl Sulfonium Salts

Short Review



Synthesis

Synthesis **2022**, *54*, 79–91
DOI: 10.1055/s-0040-1720179

Pathogen-Associated Molecular Patterns: The Synthesis of Heptose Phosphates and Derivatives

Short Review

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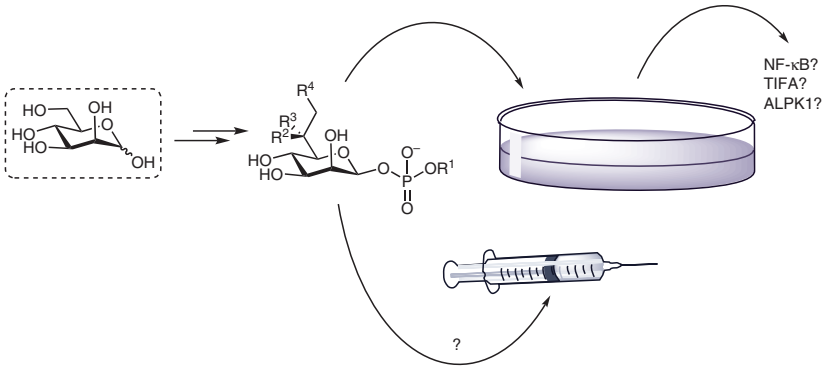

Synthesis

Synthesis **2022**, *54*, 92–110
DOI: 10.1055/a-1577-7638

Transition-Metal-Catalyzed Nucleophilic Dearomatization of Electron-Deficient Heteroarenes

Short Review

92

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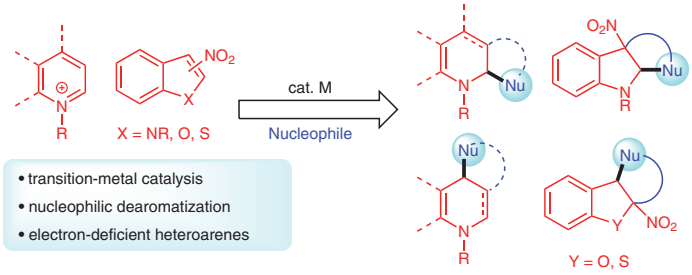

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Synthesis **2022**, *54*, 111–123
DOI: 10.1055/s-0040-1719825

Strain-Induced Transformations of Bicyclo[3.1.0]hex-1-enes

Short Review

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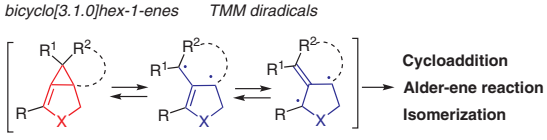

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Synthesis **2022**, *54*, 124–132
DOI: 10.1055/a-1561-8299

Rhodium-Catalyzed Aryl Migratory/Decarbonylation of Diaryl Ketones via the Activation of Unstrained C–C Bonds

Feature

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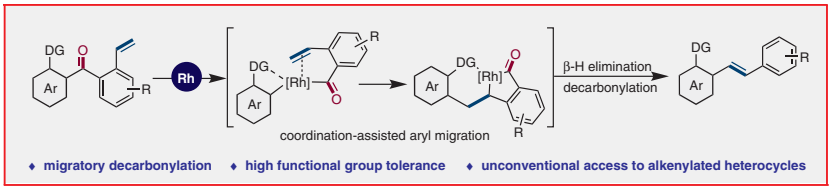

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Synthesis **2022**, *54*, 133–146
DOI: 10.1055/a-1579-2190

Nickel Boride Catalyzed Reductions of Nitro Compounds and Azides: Nanocellulose-Supported Catalysts in Tandem Reactions

Feature

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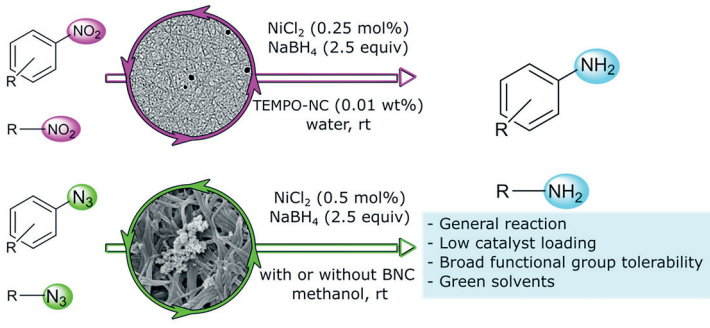

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Synthesis **2022**, *54*, 147–152
DOI: 10.1055/a-1577-7972

Scholl Reaction of *ortho*-Phenylene-Bridged Cyclic Pyrrole-Thiophene Hybrid Hexamer

Paper

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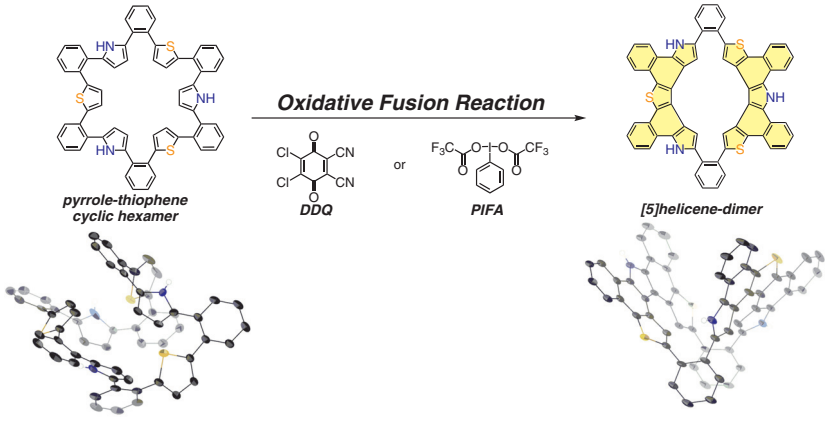

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Synthesis **2022**, *54*, 153–160
DOI: 10.1055/a-1581-2271

High Chemoselectivity in the Construction of Aryl Methyl Sulfones via an Unexpected C–S Bond Formation between Sulfonylhydrazides and Dimethyl Phosphite

Paper

153

T. Liu
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Synthesis

Synthesis **2022**, *54*, 161–170
DOI: 10.1055/a-1581-2408

p-Toluenesulfonic Acid-Catalyzed Reaction of Phthalaldehydic Acids with Difluoroenoxysilanes: Access to 3-Difluoroalkyl Phthalides

Paper

161

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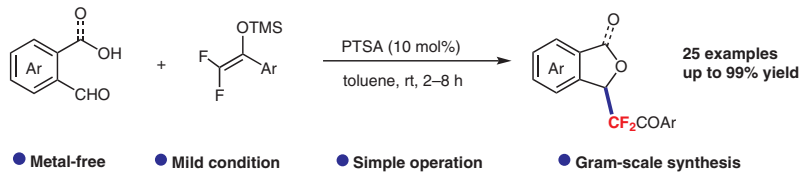

Synthesis

Synthesis **2022**, *54*, 171–183
DOI: 10.1055/a-1578-2848

Multigram Synthesis of Difluoromethylene Phosphonic and Phosphinic Amides and Phosphine Oxides via Formal [2,3]-Sigmatropic Allyl Phosphite–Allylphosphonate Rearrangement

Paper

171

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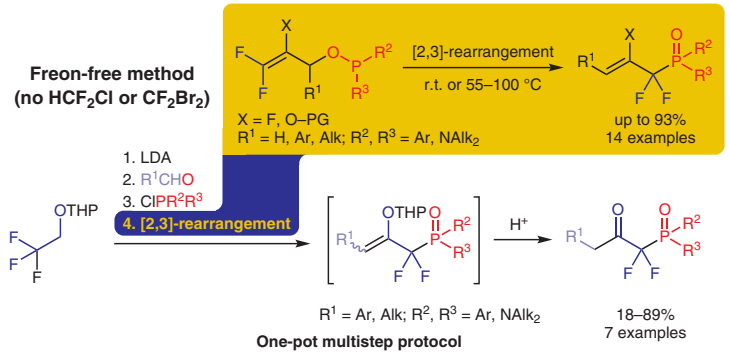

Synthesis
Synthesis **2022**, *54*, 184–198
DOI: 10.1055/a-1561-5508

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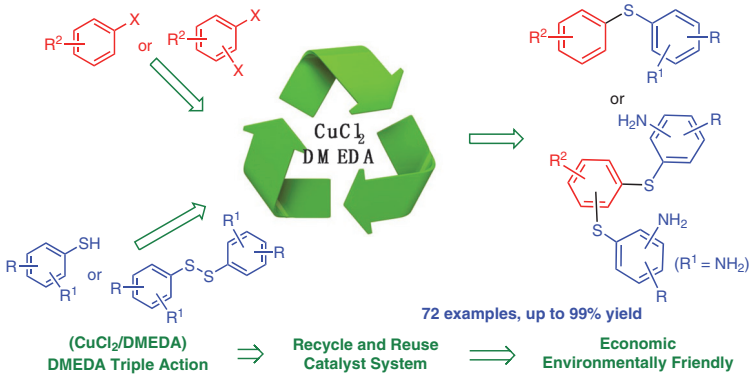
Environmentally Friendly and Recyclable $CuCl_2$-Mediated C–S Bond Coupling Strategy Using DMEDA as Ligand, Base, and Solvent

Paper



Synthesis
Synthesis **2022**, *54*, 199–209
DOI: 10.1055/a-1577-5999

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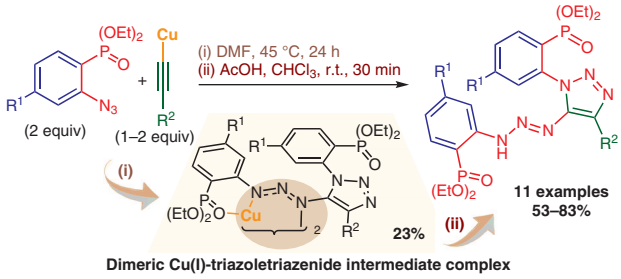
Synthesis of Diethoxy Arylphosphoryl Functionalized, Fully Substituted 5-Triazenyl-1,2,3-triazoles via Chelation-Assisted Interrupted Domino Reaction of *ortho*-Azidophosphonates with Copper(I) Alkynes

Paper



Synthesis
Synthesis **2022**, *54*, 210–216
DOI: 10.1055/a-1577-6344

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$Mn(OAc)_3$ Induced C-4 Arylations of Quinazoline 3-Oxides with Arylboronic Acids

Paper