Dipeptide-Based Phosphonium Salt Catalysis: Application to Enantioselective Synthesis of Fused Tri- and Tetrasubstituted Aziridines

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Iridium-Catalyzed Asymmetric C–H Borylation Enabled by Chiral Bidentate Boryl Ligands

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**Recent Advances in the Synthesis of Acridines and Phenazines**

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**Reprogramming Nonribosomal Peptide Synthesis by Surgical Mutation**

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**Base-Controlled One-Pot Chemoselective Suzuki–Miyaura Reactions for the Synthesis of Unsymmetrical Terphenyls**

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Copper Aluminate Spinel in Click Chemistry: An Efficient Heterogeneous Nanocatalyst for the Highly Regioselective Synthesis of Triazoles in Water

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Highly Chemoselective Solvent-Free Synthesis of 1,3,5-Triaryl-1,5-diketones: Crystallographic Investigation and Intramolecular Weak Bifurcated H Bonds Involving Aliphatic C–H Group

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Acetic Acid Catalysed One-Pot Synthesis of Pyrrolo[1,2-a]quinazoline Derivatives

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Direct Synthesis of \( \text{N} \)-Functionalized Dipropargylamine Linkers as Models for Use in Peptide Stapling

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Stereoselective Synthesis of the A,E-Ring Bicyclic Core of Calyciphylline B-Type Alkaloids

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Copper(II)-Catalyzed C–N Coupling of Aryl Halides and N-Nucleophiles Promoted by Quebrachitol or Diethylene Glycol

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Synthesis of Acetamides from Aryl Amines and Acetonitrile by Diazotization under Metal-Free Conditions

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Equation: \( \text{CH}_3\text{CN}, \text{H}_2\text{O} \rightarrow \text{TbO}, \text{t}-\text{BuONO}, 60^\circ\text{C} \)

- \( R = \text{OMe, CH}_3, \text{CO}_2\text{Et, CF}_3, \text{NO}_2, \text{Cl, Br, I} \)
- without metal catalyst
- selective to aromatic amines
- 22 examples up to 85% yield

α-D-Galacturonic Acid as Natural Ligand for Selective Copper-Catalyzed N-Arylation of N-Containing Heterocycles

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Equation: \( \text{CuBr (5 mol%), GalA (10 mol%) in aq DMSO under Ar, 80–120^\circ\text{C}} \)

- abundant source
- eco-friendly
- selective
- water soluble
- 41 examples
- (50–99% yields)

Copper(I)-Catalyzed Sulfenylation of 1,3-Dicarbonyl Substrates with Disulfides under Mild Conditions

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Z. Yu
X. Tang
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Equation: \( \text{HIGH ATOM ECONOMY}
\text{MILD CONDITIONS}
\text{SIMPLE PROCEDURE WITH UP TO 95% YIELD} \)

- 16 examples
- up to 95% yield
Preparation of α-L-Rhamnobiiosides by Open and Conventional Glycosylations for Studies of the rHPL Lectin

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T. Balogh
T.-K. Fu
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A Chemoenzymatic Formal Synthesis of Epoxyquinols A and B

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Catalytic Asymmetric Synthesis of Atropisomeric Quinolines through the Friedländer Reaction

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