Transition-Metal-Catalyzed C–H Arylation Using Organoboron Reagents

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Recent Advances in the Use of Sodium Dispersion for Organic Synthesis

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Recent Advances on Benzofuranones: Synthesis and Transformation via C–H Functionalization

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Pyridine-Mediated B–B Bond Activation of (RO)2B–B(OR)2 for Generating Borylpyridine Anions and Pyridine-Stabilized Boryl Radicals as Useful Boryl Reagents in Organic Synthesis

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Recent Advances in Heterogeneous Ir Complex Catalysts for Aromatic C–H Borylation

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**Recent Strategies in Non-Heme-Type Metal Complex-Catalyzed Site-, Chemo-, and Enantioselective C–H Oxygenations**

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**Recent Advances in Transition-Metal-Catalyzed C–H Functionalization Reactions Involving Aza/Oxabicyclic Alkenes**

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**Recent Advances in Light-Driven Carbon–Carbon Bond Formation via Carbon Dioxide Activation**

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C–H Bond Functionalization Using Pd- and Au-Supported Catalysts with Mechanistic Insights of the Active Species

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Cobalt-Catalyzed Oxidative [4+2] Annulation of Benzamides with Dihydrofuran: A Facile Route to Tetrahydrofuro[2,3-c]isoquinolinones

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Synthesis of Unsymmetrically Substituted Tetraphenylenes through Palladium-Catalyzed C(sp²)–H Activation

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Pd(II)-Catalyzed Directing-Group-Aided C–H Arylation and Alkylation of Pyrene Core: Synthesis of C1,C2- and C1,C10-Disubstituted Pyrene Motifs

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Radical Carboxylsulfonylation of Propellane: Synthesis of Sulfonyl β-Keto-bicyclo[1,1,1]pentanes

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Iridium-Catalyzed Site-Selective Borylation of 8-Arylquinolines

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Chromium-Catalyzed Reductive Cleavage of Unactivated Aromatic and Benzylic C–O Bonds

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Catalytic Reductive Cleavage of Poly(phenylene sulfide) Using a Hydrosilane

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Strategic Synthesis of Asymmetrically Substituted C4N4 Fluorophores

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**Intermolecular C–H Amidation of Alkenes with Carbon Monoxide and Azides via Tandem Palladium Catalysis**

**Tandem Pd catalysis**  
**no ortho-directing group**  
**additive free**

**Rhodium(I)-Catalyzed CO-Gas-Free Arylative Dual-Carbonylation of Alkynes with Arylboronic Acids via the Formyl C–H Activation of Formaldehyde**

**Deuterium-Labeling Studies on the C–H/Olefin Coupling of Aromatic Ketones Catalyzed by Fe(PMe₃)₄**

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Electron-Accepting π-Conjugated Compound Containing Cyano-Substituted Naphthobisthiadiazole as Nonfullerene Acceptor in Organic Solar Cells

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Nickel-Catalyzed Homocoupling of Aryl Ethers with Magnesium Anthracene Reductant

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A New Protocol for Catalytic Reduction of Alkyl Chlorides Using an Iridium/Bis(benzimidazol-2′-yl)pyridine Catalyst and Triethylsilane

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