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Catalysts in Carbon-Carbon Coupling Reactions

Guest Editor:

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Message from the Guest Editor

Catalysis is an important area of synthetic chemistry and can be used to perform classical reactions under milder conditions with dramatically enhanced yields in shorter reaction times. The carbon–carbon bond forms the basic skeleton of an organic compound, and the carbon–carbon bond formation reaction is considered to be the most important reaction in organic synthesis. Among the diverse range of transformations, transition-metal-catalyzed cross-coupling reactions for carbon–carbon bond construction remain indispensable tools.

The present Special Issue focuses on recent research in carbon–carbon coupling reactions. Research topics may include (but are not restricted to): transition-metal-catalyzed reactions; asymmetric reactions; metal-nanoparticle-catalyzed reactions; C-heteroatom functionalization; C–H functionalization; and reaction mechanisms.

We welcome both original research papers and review articles for possible publication in this Special Issue.