



Advances in Transition Metal Catalyzed Cross-Coupling

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Transition metal-catalyzed cross-coupling reactions have gained enormous power in the art of synthetic chemistry by providing a fundamental tool for the formation of a carbon-carbon and a carbon-heteroatom bond in countless relevant academic and industrial applications. Palladium is still a privileged metal that has paved the way for other precious and earth-abundant metals. The latter are promising more sustainable transformations; because of that, the synthesis of new catalysts based on earth-abundant metals and investigation of their catalytic activity are topics of broad interest. Moreover, as an alternative to the traditional single-site cross-coupling that employs one of the metals, i.e., organometallic nucleophile, in stoichiometric amount, an alternative paradigm in which both metals are employed in a catalytic amount, the so-called bimetallic catalysis or dual catalysis, is another step towards making cross-coupling even more ideal. This Special Issue will cover recent progress and trends in cross-coupling catalysis.

