Special Issue

Transition Metal-Catalyzed Reactions in Heterocyclic Synthesis

Message from the Guest Editors

Transition metal-catalyzed reactions are very powerful tools in organic synthesis. The advances made in carbon–carbon bond formation have led to the functionalization of various heterocyclic systems, with important applications in pharmaceuticals, agrochemicals, and optoelectronic materials. Thanks to two main strategies with very high scientific significance in organic chemistry—namely, the classical methods of the metal-catalyzed cross-coupling reactions such as Suzuki-Miyaura, Heck, Sonogashira, Negishi, Stille, Kumada, Hyama and the recent methods of C-H functionalization including the direct arylation and alkenykation as well as the oxidative arylation and alkenylation. Review papers summarizing the most important achievement in the functionalization of specific heterocyclic systems, using either classical cross-coupling or new C-H activation methods would be very useful for the chemist community. In addition, original papers that address important issues in heterocyclic functionalization, using one or more of the reactions cited above would also be appreciated.

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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