

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 alkenylation 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.

Guest Editors

Prof. Dr. Gerald Guillaumet

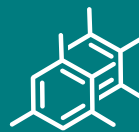
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Deadline for manuscript submissions

closed (31 December 2020)



Molecules

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