

Special Issue

Palladium-Catalyzed Reactions: Chapter II

Message from the Guest Editor

Palladium is probably the most versatile and exploited transition metal in catalysis due to its capability to boost a wide variety of organic reactions (alkylation, arylation, cyclization, hydrogenation, oxidation, isomerization, cross-coupling, cascade, radical reactions, etc.) both on laboratory and industrial scales. Both homogeneous and heterogeneous palladium-catalyzed reactions continue to play an essential role in organic synthesis. Natural alkaloids, bioactive compounds, pharmaceutical agents, agrochemicals, specialty polymers, etc. can be efficiently accessed through the action of palladium catalysts. Particular attention is devoted to the use of palladium catalysts in C-H bond activation, carbonylation and asymmetric reactions often in combination with other metals. High chemo-, regio-, and diastereoselectivities as well as high levels of molecular sophistication can be achieved employing tailored palladium-based catalytic systems under mild reaction conditions. Original research papers and topical reviews on recent advancements in the field of palladium chemistry are welcome in this Special Issue of *Catalysts*.

Guest Editor

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Deadline for manuscript submissions

closed (10 October 2021)



Catalysts

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Impact Factor 4.0
CiteScore 7.6



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