Special Issue

Advances in Transition Metal Catalysis, 2nd Edition

Message from the Guest Editors

Transition metal catalysis has been established as one of the most useful and effective tools for the preparation of synthetically valuable targets of interest in various research fields. Indeed, many key bond-forming processes have been enabled by the capacity of transition-metal-catalyzed reactions in controlling crucial parameters such as selectivity, reactivity, and stability. Today, due to increasing interest in sustainable, green, clean, and more efficient organic synthesis, a great deal of attention has been devoted to the economic and environmental impact of such reactions, leading to the development of dynamic research to maximize the chemical usefulness and efficiency of catalyst-driven reactions while minimizing waste. This Special Issue will focus on the remarkable goals achieved in this exciting research area and will cover recent progress and trends in organometallic chemistry.

- homogeneous catalysis
- heterogeneous catalysis
- copper, palladium, gold
- green chemistry
- transition metal nanoparticles
- organometallic chemistry
- metal-mediated synthesis
- catalytic approaches for heterocycles
- transition metal catalysts

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