



## Advances in Transition-Metal-Catalyzed Synthesis

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### Message from the Guest Editor

Dear Colleagues,

Transition-metal catalysis has revolutionized organic synthesis: dramatically improved rates, yields and selectivities of known reactions and enabled new reactivities previously deemed inconceivable. It became indispensable for the synthesis of a broad range of valuable organic molecules spanning from simple synthetic building blocks to natural products, pharmaceuticals, organic electronics and polymers. The application of transition metal catalysis led to milder reaction conditions, fewer reaction steps and side products. As a result, the synthesis became cleaner, safer as well as less energy and time intensive.

Despite the tremendous progress made recently, a lot of challenges remain on the way to designing new and improving existing synthetically useful catalytic transformations, developing more active and stable catalysts, as well as applying catalytic methods to the synthesis of complex organic molecules. This Special Issue focuses on some recent advances towards addressing these challenges.

Dr. Alexey G. Sergeev

*Guest Editor*





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## Message from the Editor-in-Chief

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