



New Strategies for Metal Catalysis in Heterogeneous System

Guest Editor:

Dr. Meng Zhang

Green Catalytic Center, and
College of Chemistry, Zhengzhou
University, Zhengzhou 450001,
China

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Message from the Guest Editor

Dear Colleagues,

Active metal is a key component of the heterogeneous catalyst. The particle size and chemical state of the active sites play the remarkable role in reaction performance, including conversion, selectivity and stability. Recently, a series of strategies have been developed to regulate the metal catalysts, and a series of the novel catalysts have been emerged, such as single atom, cluster and nanoparticle catalysts. Simultaneously, it is crucial to discuss the metal-support interaction and support effects on active metal size distribution and chemical state. Additionally, in-situ characterization techniques are needed to unravel the influences of the catalyst structure and surface properties on reaction performance, as well as the reaction mechanism. This Special Issue will highlight the deep insights into the new strategies to design the efficient and robust metal catalysts in heterogeneous system and the topics on the advanced techniques to decipher the structure-activity relationship are also included.

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Guest Editor





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

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Molecules Editorial Office
MDPI, Grosspeteranlage 5
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