



Current Advanced Technologies in Catalysts/Catalyzed Reactions

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Message from the Guest Editors

Dear Colleagues,

The market for clean energy and industrial catalysts can be categorized into three major sectors: chemicals, fuels, and environmental protection. The same classification can be used in the sections that follow to discuss new opportunities in catalytic technology. New catalytic discoveries have the significant advance of bringing conceptual advances or molecular insights to catalytic processes wherever appropriate and, thereby, demonstrating the relationship between synthesis, structure, and performance of the catalytic systems. In this, the kinetics and mechanisms are considered to be the central part of catalysis science and their role in the understanding of developed technologies cannot be ignored.

This Special Issue aims to cover the most recent progress and the advances in the field of heterogeneous, homogeneous, organocatalysis, catalyst discoveries; catalytic processes; catalyst mechanism; and biocatalysis communities, containing a balanced mix of fundamental, technology-oriented, liquid fuels; industrial emissions; clean environment; experimental, and computational catalysis.

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