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Metal Oxides / Metal Catalysts

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Deadline for manuscript submissions:

closed (20 November 2023)

Message from the Guest Editors

Metals, oxides and their composite nanomaterials are the focus of nanocatalysts, which have garnered attention researchers widespread of With the development of nanosynthesis, a large number of zerodimensional (quantum dots, nanocrystals, etc.), onedimensional (nanowires. nanoribbons. nanorods. two-dimensional nanofibers etc.). (nanosheets. nanomembranes, etc.), and three-dimensional (aerogel, hydrogel, etc.) metal oxide nanomaterials have emerged. Moreover, fine surface structures and/or secondary structures have been constructed on nanomaterials. promoted application as nanocatalysts. However, the difficulty in continuous and massive production is still an important bottleneck restricting the lab-to-fab transition. The complexity and dynamics of the real reaction conditions bring great challenges-activity relationship of nanocatalysts. New research paradigms such as in situ imaging, theoretical computation and high-throughput screening may help facilitate customized development of nanomaterials. The present Special Issue on "Metal Oxides/Metal Catalysts" may become a status report summarizing the progress achieved in the last five years.











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Message from the Editor-in-Chief

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