

## Special Issue

# The Usage of Transition Metal Catalysts

### Message from the Guest Editors

Metal catalysts are successfully used in organic synthesis, biomass conversion, fuel cells, and other applications, due to their unique properties. With the continuous development of advanced technologies, nanoscale metal catalysts emerge continuously. This Special Issue is focused on the latest evolution in metals, alloys, metal catalysts and their applications, with the scope of state-of-the-art techniques, synthetic methods, and unique catalytic applications of metal catalysts. The continuous development of the subject mainly depends on the precisely controlled synthesis and structural characterization, as well as the mechanism exploration. In addition to traditional processes like hydrothermal synthesis, template method, or vapor deposition, new processes such as 3D printing and radiation synthesis are also of interest. In terms of exploring the catalytic mechanism, various in situ technology platforms and high-end equipment, combined with simulation technology, have been used to investigate the catalytic mechanisms. Articles are welcome which apply new technologies to characterize the metallic material structure and analyze catalytic behavior.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 September 2023)



## Metals

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## About the Journal

### Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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### Editor-in-Chief

Prof. Dr. Yong Zhang

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