



Application and Properties of Metal and Metal Oxides in Catalysts

Guest Editors:

Prof. Dr. Dingke Zhang

Department of Physics and
Electronic Engineering,
Chongqing Normal University,
Chongqing, China

Dr. Mingyu Pi

Department of Physics and
Electronic Engineering,
Chongqing Normal University,
Chongqing, China

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

In recent years, with the aggravation of environmental pollution and energy shortages, the use of catalytic technology to solve the related problems has attracted more and more attention. For example, with the help of metal or metal oxide catalysts, CO₂ reduction is carried out in the way of photocatalysis, thermocatalysis or electrocatalysis to achieve the goal of carbon neutrality, and the splitting of water to produce hydrogen is carried out in the way of electrocatalysis or photocatalysis to promote the development of hydrogen economy. However, at present, the catalytic mechanism still needs to be further explored and revealed, the catalytic activity of the materials needs to be further improved and optimized, and the development and application of new catalytic materials need a lot of exploration work. In this Special Issue, we welcome articles focused on the applications and properties of metals and metal oxides in catalysts.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/Metals_MDPI)