

Special Issue

Advances in Nanoporous Metallic Materials

Message from the Guest Editors

Nanoporous metallic materials (Au, Pd, Cu, Sn, Bi, etc.) have been successfully applied in many fields, due to their high specific surface area, unique bicontinuous structure, tunable ligament/pore size, good conductivity, etc. More and more techniques, including dealloying, templating and electrochemical synthesis, have been used to synthesize nanoporous metals. In addition, a growing number of technologies are combining (for instance, 3D printing combined with dealloying and templating combined with selective corrosion) to design and fabricate new porous structures that exhibit excellent physical and chemical properties. This Special Issue focuses on recent advances of nanoporous metallic materials by different methods from fundamental studies to various applications. Research areas may include, but are not limited to, structural design of nanoporous metals, novel preparation methods, characterization of nanoporous structures, calculation and simulation toward nanoporous metals and different reaction processes, and applications of nanoporous metallic materials in various fields. Original research and review papers are welcome. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Zhifeng Wang

School of Materials Science and Engineering, Hebei University of Technology, Tianjin 300401, China

Prof. Dr. Qibo Deng

School of Mechanical Engineering, Hebei University of Technology, Tianjin 300401, China

Deadline for manuscript submissions

closed (30 September 2023)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



mdpi.com/si/100052

Metals

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



About the Journal

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.

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).