

Special Issue

Advanced Magnetic Materials

Message from the Guest Editor

The research area of magnetic materials is still increasing. Ferromagnets have recently played important roles in magnetic refrigeration, thermoelectricity, and so on. Antiferromagnets are expected to be the next-generation spintronics materials due to the lack of a stray magnetic field. One of the hot topics is the relation between magnetic property and microstructure, especially in the research field of permanent magnets. Magnetic materials are also well investigated in fundamental works, with some examples of the latest topics including the multichannel Kondo effect, multipolar effect, and quantum spin liquid. The goal of this Special Issue is to collect articles mainly concerning the frontiers of research in magnetic materials. Both experimental and theoretical approaches are encouraged, and review articles are also welcome. Topics of interest include but are not limited to:

- Ferromagnetic and antiferromagnetic materials;
- Relation between magnetic property and microstructure;
- Control of magnetic state;
- High-entropy alloy;
- Spintronics;
- Nanostructure;
- Physics, chemistry, and metallurgy;
- Measurement;
- Analysis method.

Guest Editor

Prof. Dr. Jiro Kitagawa

Department of Electrical Engineering, Faculty of Engineering, Fukuoka Institute of Technology, 3-30-1 Wajiro-higashi, Higashi-ku, Fukuoka 811-0295, Japan

Deadline for manuscript submissions

closed (30 November 2020)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/28968

Metals
Editorial Office
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 2.5
CiteScore 5.3



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



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.

Editor-in-Chief

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, Ei
Compendex, CAPus / 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 18.7 days after
submission; acceptance to publication is undertaken in 2.7
days (median values for papers published in this journal in
the second half of 2025).