

Special Issue

Metal-Based Microwave Absorbing Materials

Message from the Guest Editors

It is well known that the key factors determining the microwave dissipation performance of absorbing materials are their dielectric or magnetic loss capability. Over the years, many microwave-absorbing materials with various compositions have been prepared. Among them, metal-based materials, including magnetic metals, alloys, metal oxide/sulfide/phosphate, etc., are the most widely studied due to their excellent synergistic effect of dielectric/magnetic loss. This Special Issue, titled “Metal-Based Microwave-Absorbing Materials”, will present advanced and innovative metal-based absorbers, covering the diversity and development trends of modern absorbing materials. The submitted papers should propose the attenuation mechanisms, merits and potential applications of metal-based materials. We look forward to publishing relevant and original high-quality research papers, and potential topical areas include, but are not limited to:

- Carbon/metal composites;
- Polymer/metal composites;
- Ceramic/metal composites;
- Metal-organic frameworks;
- Alloy compounds;
- Metal oxide/sulfide/phosphate composites;
- Metal-based materials with distinct microstructures.

Guest Editors

Dr. Limin Zhang

School of Physical Science and Technology, Northwestern Polytechnical University, Xi'an 710072, China

Dr. Hao Shen

School of Science, Chang'an University, Xi'an 710064, China

Dr. Hongjing Wu

School of Physical Science and Technology, Northwestern Polytechnical University, Xi'an 710072, China

Deadline for manuscript submissions

closed (31 December 2022)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/102697

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 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, Ei Compendex, CAPlus / 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 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 2025).