

Special Issue

Structure, Properties and Applications of Metal Matrix Composites

Message from the Guest Editors

Metal matrix composites (MMCs) have become the focus of intensive scientific investigation and applied research for their application as structural and functional materials in advanced technological fields. Most important and widely studied MMC systems are aluminum-based matrix reinforced with particulates, continuous and discontinuous fibers and whiskers, copper-based matrix reinforced with wires, particulates and continuous fibers, titanium-based matrices reinforced with particulates and continuous fibers, magnesium-based matrices reinforced with particulates, whiskers, and continuous fibers, and superalloy-based matrices reinforced with wires. Current advances in the development of metal matrix nanocomposites and the emergence of new alloys provide new perspectives for advanced research and applications of MMCs. This Special Issue aims to provide a worldwide platform for publishing theoretical and experimental articles, reviews, short communications related to the development and synthesis, modeling, wettability phenomena, applications, and the mechanical and tribological characterization of emerging metal-based composites and nanocomposites.

Guest Editors

Prof. Dr. Ludmil Drenchev

Institute of Metal Science, Equipment and Technologies with Hydroaerodynamics Centre, Bulgarian Academy of Sciences—67 “Shipchenski prohod” Str., Sofia 1574, Bulgaria

Dr. Mihail Kolev

Institute of Metal Science, Equipment and Technologies With Hydroaerodynamics Centre, Bulgarian Academy of Sciences—67 “Shipchenski prohod” Str., Sofia 1574, Bulgaria

Deadline for manuscript submissions

closed (31 May 2023)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/92724

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, 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 18.7 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).