



Structure, Properties and Applications of Metal Matrix Composites

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)

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.





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, Ei Compendex, CAPus / 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/X@Metals_MDPI)