metals

an Open Access Journal by MDPI

IMPACT FACTOR 2.6

CITESCORE 4.9

Metal Composite Materials and Their Interface Behavior

Guest Editors:

Dr. Pengfei Li

Dr. Yao Sun

Dr. Shuoshuo Qu

Prof. Dr. Diqing Wan

Deadline for manuscript submissions:
30 October 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue, entitled "Metal Composite Materials and Their Interface Behavior," focuses on multiple composite materials that have attracted the attention of various industries that produce lightweight and high-performance components.

The interface behavior of composite materials is one of the key factors affecting their mechanical properties. The characterization of interface micro-mechanical properties, elemental distribution, bonding strength, and microstructure can provide guidance for investigating the deformation and failure processes of the interfaces in metal composite materials and improving their mechanical properties.

The present Special Issue aims to collect contributions on advanced metal composite materials, as well as review the state of the art on these materials. Manuscripts will focus on the most significant and promising manufacturing technologies, machining and joining processes, modeling, simulation, material characterization, and failure mechanisms. A comprehensive overview of the most recent results and findings in the field of advanced composite materials will be provided.

metals

IMPACT FACTOR 2.6

CITESCORE 4.9

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, CAPlus / 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