

Special Issue

Advanced Research of Metal Matrix Composites

Message from the Guest Editor

Metal matrix composites are materials based on metals, alloys, and intermetallics, reinforced by particles or fibers. Due to their designability, metal matrix composites have good ductility and toughness, a high modulus, and strength. Hence, metal matrix composites have developed into a new type of material, which has been widely applied in military, aerospace, and automotive fields, etc. Thus, publications about the fabrication, characterization and testing of metal (e.g., Al, Ti, Fe, NiTi and TiAl et al.) matrix composites reinforced with different phases (e.g., fibers, particles, whiskers) are encouraged to be submitted for publication in this Special Issue. Furthermore, the composite manufacturing process (e.g., powder metallurgy, hot-pressed sintering, infiltration, stir casting) and strengthening mechanism analysis (e.g., fine-grain strengthening, second-phase strengthening) will also be fully considered. It is expected that, through this Special Issue, some guidance will be offered on the fabrication, investigation and application of the metal matrix composites.

Guest Editor

Dr. Shili Shu

School of Mechanical and Aerospace Engineering, Jilin University,
Renmin Street NO. 5988, Changchun 130025, China

Deadline for manuscript submissions

closed (31 December 2022)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



mdpi.com/si/107930

Metals

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 2.6
CiteScore 4.9



[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, CAPIus / 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 16.5 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 2024).