

Special Issue

Study on Advanced Metal Matrix Composites

Message from the Guest Editors

In the past decade, attributed to the mature design theories, advanced fabrication methods and characterization techniques, the research and application of metal matrix composites have greatly advanced. The recent development in multi-scale hierarchical and bio-inspired design principles makes strong and tough metal matrix composites possible. The development of nano-materials and advanced ceramics provides more reinforcements with specific performance. The continuous progress in characterization techniques reveals the relationships among the microstructure, processing and properties of the metal matrix composites, especially on a nano-scale level, and the sophisticated preparation methods of metal matrix composites bridge the fundamental theory and industrial application. This Special Issue aims at covering recent progress and new developments in relationships between the microstructure and mechanical/thermo-physical properties of advanced metal matrix composites. It is our pleasure to invite you to submit your exceptional manuscripts for publication in this Special Issue.

Guest Editors

Prof. Dr. Wenshu Yang

School of Materials Science and Engineering, Harbin Institute of Technology, Harbin, China

Dr. Chang Zhou

State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, Beijing, China

Deadline for manuscript submissions

closed (10 April 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/89296

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)