

Special Issue

Precision Manufacturing of Advanced Alloys and Composites

Message from the Guest Editors

The use of advanced alloys and composites is steadily increasing as an alternative to traditional metallic materials in various industry sectors. Although there is knowledge and research already present in the literature on the manufacturing of alloys/composites, developing new precision and ultraprecision manufacturing strategies/techniques is still important to significantly improve component performance, productivity and machinability; hence, the motivation for organizing this Special Issue.

This special Issue aims to bring together leading academic scientists, researchers and research scholars to exchange and share their research experiences and experimental results on all aspects of "Precision Manufacturing of Advanced Alloys and Composites".

It is our pleasure to invite you to submit original research papers, short communications or reviews, which covers the topics/research areas mainly related to precision/ultraprecision manufacturing technologies and their use in advanced alloys and composites, precision machinery, surface integrity, microstructure evolution, and mechanics and modeling during precision forming and machining processes.

Guest Editors

Prof. Dr. Maojun Li

Prof. Dr. Pan Gong

Dr. Xin Wang

Prof. Dr. Guangchao Han

Deadline for manuscript submissions

closed (20 October 2024)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/151740

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 Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)