Special Issue

Advanced Micro- and Nano-Manufacturing Technologies

Message from the Guest Editor

One of the major issues of HEAM in recent decades is the development of advanced materials manufacturing using its advantages to expand their scientific technologies and industrial applications. It needs tremendous dedicated works on applied AM processes, deposition methodologies, post-processing technologies, assisted numerical simulation and analyses, which significantly affects the HEAM part quality. The HEAM of advanced materials will push the materials wheels of the high performance and functionality for the worldwide technologies. This special Issue would focus on recent works related to high energy additive manufacturing technologies on advanced materials. Topics can include but are not limited to:

- High energy additive manufacturing processes using advanced materials;
- Post-processing technology of HEAM parts (including heat treatment, surface and shape modification, etc.);
- Functional/graded materials using HEAM methodologies;
- Modeling and numerical analyses in additive manufacturing processes;
- High-throughput materials design and intelligent control for additive manufacturing;
- Microstructure, phase transformation and mechanical properties of the AM parts.

Guest Editor

Prof. Dr. Kun Li

1. State Key Laboratory of Mechanical Transmission for Advanced Equipment, Chongqing University, Chongqing 400044, China
2. Chongqing Key Laboratory of Metal Additive Manufacturing (3D Printing), Chongqing University, Chongqing 400044, China
3. College of Mechanical and Vehicle Engineering, Chongqing University, Chongqing 400044, China

Deadline for manuscript submissions

closed (31 December 2023)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/91233

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

mdpi.com/journal/micromachines

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/journal/micromachines

About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

MDPI