

Special Issue

Future Trends in Ultra-Precision Machining

Message from the Guest Editors

Ultra-precision machining is a multi-disciplinary research area, which forms the backbone and support of today's innovative technology industries, including optoelectronics, aerospace, optics, and biomedical engineering. With the rapid development of these industries, surface quality requirements of manufacturing products become more and more stringent. In order to make the surface finishing adapt to this new situation, the exploration of new mechanisms and technologies has become a great interest of research. This Special Issue aims to publish original research and review articles in the field of "Future Trends in Ultra-Precision Machining". Papers on new theories, techniques, and applications in the fields of ultra-precision machining are welcome. Suitable topics include but are not limited to new mechanisms of processes involving material removal, the scientific development of new processes, surface topography measurement, and novel concepts in ultra-precision machining supported by modelling and experiments. We also welcome scholars in related fields to contribute their latest research results to this Special Issue.

Guest Editors

Dr. Changlin Liu

Prof. Dr. Yanbin Zhang

Dr. Xiaoliang Liang

Deadline for manuscript submissions

31 August 2025



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/214935

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

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