Special Issue

Advances in Hybrid Micromanufacturing Technology

Message from the Guest Editors

The demand for miniaturized products and devices is increasing in our “smaller, lighter, faster, and cheaper” world. Micromanufacturing, as the bridge between macromanufacturing and nanomanufacturing, enables the manufacture of these devices in a volume production scale. Hybrid processes based on the simultaneous and controlled interaction of process mechanisms and/or energy sources/tools have been proven to positively affect micromanufacturing characteristics such as manufacturability, accuracy, surface integrity, and complexity. Hybrid micromanufacturing processes, including assisted hybrid processes, combined hybrid processes, and the controlled application of process mechanisms, can either shorten the existing process chains or realize extraordinary process performance, and hence become increasingly popular to achieve the “1+1=3” effect. Recent years have seen the rapid application of hybrid manufacturing in aerospace, electronics, medical devices, and energy sectors. The development of hybrid micromanufacturing is still driven by industrial needs, along with the developments of new materials, energy sources, and digital approaches.

Guest Editors

Dr. Nan Yu

Dr. Ni Chen

Prof. Dr. Ning He

Prof. Dr. Xichun Luo

Deadline for manuscript submissions

closed (30 June 2022)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/90969

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. Nam-Trung Nguyen
Queensland Quantum and Advanced Technologies Research Institute, Griffith University, West Creek Road, Nathan, QLD 4111, Australia

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 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).

MDPI