

Special Issue

Advanced Technologies in 3D Nanofabrication

Message from the Guest Editor

Complex 3D micro-/nanoarchitectures are receiving widespread attention due to their potential applications in metamaterials, bio-medical devices, robotics and micro-/nanoelectromechanical systems. While 2D patterns are now generally achievable through commercialized lithographic tools, sculpturing functional materials into 3D shapes and placing them at the desired locations in 3D spaces with high fidelity to designed layouts remain challenging. Several efforts have been made in this direction. To name a few, some have exploited the misfit strain and introduced shape transformation to turn originally 2D patterns into 3D configurations, while others extended the scope of conventional optical lithography and developed intricate optical systems to write photo-resist or functional materials directly into 3D structures. This Special Issue aims to collect research papers, short communications and review articles to present examples of the recent advance in 3D micro-/nano fabrication, with the emphasis on either technology development or application demonstration. We look forward to receiving your submissions!

Guest Editor

Prof. Dr. Mingliang Zhang

Electronic Science and Engineering, Southeast University, Nanjing
210096, China

Deadline for manuscript submissions

closed (10 December 2023)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/174772

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).