

Special Issue

3D Microfabrication Unleashed: Emerging Applications and New Manufacturing Concepts

Message from the Guest Editor

The bloom of 3D microfabrication technologies has opened a new era for the prototyping of 3D micro- and nanostructured devices addressing a heterogeneous range of applications. Among these techniques, we find top-down approaches, involving extrusion-based systems and light-assisted ones as well as bottom-up strategies. By exploiting these protocols, it is possible to manufacture objects from the nm- to the cm-scale constituted by single or multiple materials. The use of 3D fabrication has therefore proven to be a valuable alternative to conventional 2D fabrication approaches in terms of fast-prototyping, cost effectiveness, and reduction of manufacturing steps. Accordingly, this Special Issue invites contributions (original research papers, review articles, and brief communications) on novel methodological developments in 3D microfabrication. We seek to provide a comprehensive collection with a focus on manufacturing processes, functional materials, and relevant applications, including but not limited to organ-on-chip, microfluidics, optoelectronic structures, energy harvesting devices, and microrobotics, revealing the unlimited potential of this fabrication paradigm.

Guest Editor

Dr. Angelo Accardo

Department of Precision and Microsystems Engineering (PME), Delft University of Technology, Mekelweg 2, 2628 CD Delft, The Netherlands

Deadline for manuscript submissions

closed (31 August 2020)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/36134

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

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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).