



## 3D Microfabrication Unleashed: Emerging Applications and New Manufacturing Concepts

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)**

### 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.





## Editor-in-Chief

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

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

**Journal Rank:** JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

## Contact Us

Micromachines Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/micromachines](http://mdpi.com/journal/micromachines)  
[micromachines@mdpi.com](mailto:micromachines@mdpi.com)  
[X@micromach\\_mdpi](https://x.com/micromach_mdpi)