



Rapid Prototyping Methods for Microfluidics and Lab-on-a-Chip

Guest Editor:

Prof. Dr. Michael G. Mauk

Department of Engineering
Technology, College of
Engineering, Drexel University,
Philadelphia, PA 19104, USA

Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

Researchers such as chemists, medical scientists, and biotechnologists, who traditionally did not have expertise and facilities for prototyping and microfabrication, are now using 3D printing as a research tool. Challenges in this area include materials selection, combination of diverse materials including flexible and rigid plastics, insertion of electrodes and other components such as membranes, interconnects and chip-to-world interfaces, integrated actuation (e.g., pumps) and flow control (valves), on-chip reagent storage, automated operation, and disposability. Further, 3D printers are a fast-evolving technology and range from hobbyist-type versions to very sophisticated commercial equipment, and they are also available through digital manufacturing and “mail-order” microfluidics.

This Special Issue on 3D printing for research, development, and production of microfluidic devices will feature articles expanding the scope of 3D printing for laboratory research, clinical trials, and personalized diagnostics, addressing and leveraging some of the issues above.





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

mdpi.com/journal/micromachines
micromachines@mdpi.com
[X@micromach_mdpi](https://x.com/micromach_mdpi)