

## Special Issue

# Laser-Based Fabrication of Glassy and Hybrid Micro/Nano Devices for Biomedical Applications

### Message from the Guest Editors

This Special Issue aims to gather cutting-edge research on the use of photonics-based technologies for the fabrication of micro- and nano-scale devices from glassy and hybrid glass/polymeric materials, with a particular focus on biomedical applications. Laser processes such as direct laser writing, femtosecond laser micromachining, laser-assisted bonding, and surface structuring offer unprecedented precision, design flexibility, and material selectivity—key for creating complex biomedical platforms. Topics of interest include microfluidic devices for diagnostics and therapeutics, biosensing platforms, optical components for biophotonics, and implantable or wearable systems. Contributions that explore novel laser–material interactions, fabrication strategies, and device integration in biological contexts are particularly encouraged. Additionally, submissions involving other photonics-based fabrication techniques, such as 3D photonic printing or related additive manufacturing approaches, are also welcome.

### Guest Editors

Dr. Ana I. Gómez-Varela

Optics Area, Department of Applied Physics, Institute of Materials, University of Santiago de Compostela, 15782 Santiago de Compostela, Spain

Prof. Dr. Carmen Bao-Varela

Optics Area, Department of Applied Physics, Institute of Materials, University of Santiago de Compostela, 15782 Santiago de Compostela, Spain

### Deadline for manuscript submissions

30 October 2026



## Micromachines

an Open Access Journal  
by MDPI

Impact Factor 3.0  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/248503](https://mdpi.com/si/248503)

*Micromachines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[micromachines@mdpi.com](mailto: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.

---

### 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).