



Advanced Biomaterials and Biofabrication

Guest Editors:

Dr. Yongcong Fang

Department of Mechanical
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Zhongwei Guo

School of Mechanics and Safety
Engineering, Zhengzhou
University, Zhengzhou 450001,
China

Dr. Kai Zheng

Engineering Research Center of
Stomatological Translational
Medicine, Nanjing Medical
University, Nanjing 210029, China

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

A variety of biomaterials, including hydrogels, bioceramics, and polypeptides, have been widely used in biomedical applications, such as bioadhesives, bioelectronics, medical implants, organ-on-chips, and drug delivery systems. The design and fabrication of predictive structures and functions are essential for the development of advanced biomaterials. It is most effective to realize the targeted composition–structure–function relationship using advanced biofabrication technologies, such as micropatterning, electrospinning, and 3D bioprinting. In light of this, there is a high demand for versatile biomaterials as well as novel biofabrication technologies, which in turn leads to new opportunities in bio-design, biomimetics, and regenerative applications.

In this perspective, this Special Issue focuses on innovative biomaterials and biofabrication technologies for biomedical applications. Some relevant topics include, but are not limited to:

- The development of novel biomaterials for biomedical applications;
- Innovation in 3D bioprinting and other biofabrication technologies;
- Applications of biomaterials and biofabrication.





an Open Access Journal by MDPI

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

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 (*Physics, Applied*) / CiteScore - Q2 (*Mechanical Engineering*)

Contact Us

Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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