

## Special Issue

# Flexible Sensors and Actuators for Biomedicine

### Message from the Guest Editor

Sensors and actuators have powerful capabilities in acquiring information and performing tasks, but their rigid, planar configurations are insufficient in interacting and communicating with biological systems that are soft and three-dimensional. Recent developments in manufacturing approaches have enabled a diverse set of flexible sensors and actuators that can mitigate the mechanical mismatch between rigid electronics and soft biological tissues. These flexible devices establish the basis for biomedical tools that are relevant to early diagnosis, automated surgical processes, smart intervention, advanced rehabilitation, etc. One common goal of the flexible sensors and actuators is in improving human health. Representative examples include, but are not limited to, wireless wearable sensors for continuous monitoring, flexible implants for multimodal modulation, and soft robotic systems for advanced surgery. Accordingly, this Special Issue seeks to showcase research papers, communications, and review articles that focus on the latest results and findings in flexible sensors/actuators and their applications in biomedical engineering.

---

### Guest Editor

Dr. Mengdi Han

Department of Biomedical Engineering, College of Future Technology, Peking University, Beijing 100871, China

---

### Deadline for manuscript submissions

closed (30 September 2022)



## Micromachines

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/80480](https://mdpi.com/si/80480)

*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.

---

### 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

---

### 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).