# **Special Issue**

# Soft Micromachines in Biomedicine

## Message from the Guest Editor

In recent years, advances in new technology have resulted in the development of soft micromachines for healthcare applications, including wearables in medicine and minimally invasive surgical and diagnostic equipment. Soft micromachines are made of flexible materials which can act very similar to living organisms. Compared to rigid equipment, soft micromachines allow safe human interaction and are adaptable to wearables technologies. However, there are several challenges yet to be addressed, including methods of sensing and robust control, high mobility, and long endurance. In this Special Issue, we will focus on the importance and the challenges of soft micromachines in biomedicine that deserve more research to maximize their commercialization success. Topics of interest include but are not limited to experimental, theoretical, and modeling studies towards soft micromachines for biomedicine: advantages, limitations, and future trends of soft micromachines for biomedicine; fabrication of bioinspired soft robots; development of wearables in medicine; manufacture of advanced flexible biomaterials; and development of novel manufacturing approaches of soft robots.

### **Guest Editor**

Dr. Azadeh Nilghaz

Institute for Frontier Materials, Deakin University, Waurn Ponds, VIC 3216, Australia

#### Deadline for manuscript submissions

closed (31 August 2022)



# **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/113580

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

mdpi.com/journal/ micromachines





an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



# **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

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

#### **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).

