



Advanced Microelectronic Systems for Diagnosis and Therapies

Guest Editor:

Dr. Wubin Bai

Department of Applied Physical
Sciences, University of North
Caroline at Chapel Hill, Chapel
Hill, NC 27514, USA

Deadline for manuscript
submissions:

closed (15 November 2022)

Message from the Guest Editor

Dear Colleagues,

Bio-integrated microelectronic systems that can serve as chronically stable, high-performance sensing and stimulation interfaces with the heart, brain, and other living systems (with cellular-level resolution across macroscopic areas) are of broad interest in the fields of cardiology, neuroscience, and biomedicine. Recently, advancements in materials design and integration have created new opportunities for the production of dynamic interfaces and communications with living cells and organoids. Such multi-modality communications between cells are essential in identifying and controlling the mechanism used by cells in coordinating across multi-scale systems to interpret and act upon key events in metabolism and disease pathology.

This Special Issue aims to collect articles regarding recent advancements in microelectronic systems as diagnostic and therapeutic interfaces for advanced healthcare, ranging from medical robotics, implantable electronics, and skin-interfaced microelectronics to point-of-care devices and electronic neurotechnology.

- microelectronic
- diagnostic
- healthcare
- point-of-care devices





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)