



an Open Access Journal by MDPI

MEMS/NEMS for Biomedical Imaging and Sensing

Guest Editors:

Prof. Shih-Chi Chen

Mechanical and Automation
Engineering, Chinese University
of Hong Kong, Hong Kong, China

Prof. Wei-Chuan Shih

Department of Electrical and
Computer Engineering,
Biomedical Engineering, and
Chemistry, University of Houston,
Houston, TX 77204, USA

Deadline for manuscript
submissions:
closed (15 March 2017)

Message from the Guest Editors

In the past two decades, a variety of small-scale optical imaging and sensing devices have been developed based on MEMS/NEMS technologies, enabling effective miniaturization and performance improvement of basic optical elements, such as high-speed scanner, thereby realizing the development of complex optical systems, e.g., miniaturized nonlinear microscopes, endomicroscopes, silicon optical bench. In terms of sensing, MEMS/NEMS technologies have broadened the horizon of optical and biomolecular sensing, enabling various biological and medical applications through metamaterials, photonic crystals and plasmonics on various platforms, e.g., optofluidic resonators, optical coatings and nanostructures. To realize the full potential of MEMS/NEMS in biophotonics and address the practical applications of new emerging methods, this Special Issue calls for research papers, communications, and review articles that focus on new biomedical imaging and sensing methods enabled by MEMS/NEMS. This issue also welcomes submissions addressing new micro-optical elements and sensing techniques based on MEMS/NEMS technologies for the design, integration, and optimization of complex systems.





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)