



micromachines



an Open Access Journal by MDPI

Micro/Optofluidic Devices for Bio and Energy Applications

Guest Editor:

Dr. Sung-Yong Park

Department of Mechanical
Engineering, San Diego State
University, 5500 Campanile Drive,
San Diego, CA 92182, USA

Deadline for manuscript
submissions:

closed (28 February 2021)

Message from the Guest Editor

Dear Colleagues,

Microfluidics is rapidly emerging as a breakthrough technology in an expanding range of fields, such as medical sciences, bio-sensing and actuation, chemical synthesis, energy harvesting, and more. This is helping to transform microfluidics from a promising R&D tool to commercially viable technology. Along with technology advances in the area of microfluidics, the idea of using fluids for light control, and vice versa, has also attracted great attention in the new research discipline of optofluidics that combines the advantages of microfluidics and optics. Fuelling the expansion in micro/optofluidics areas is the intensified focus on a highly valuable improvement of automation and enhanced functionality through integration with electrical, mechanical, photonic, sensing, and flow control elements.

In this Special Issue, we invite the scientific community to highlight methods and emerging challenges with this new phase of micro/optofluidic development with the goal of informing readers of the current state-of-the-art. Original research papers and review articles on micro/optofluidic devices and their bio and energy related applications are welcomed.



mdpi.com/si/58046

Special Issue



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 (Instruments and Instrumentation) / CiteScore - Q1 (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://x.com/micromach_mdpi)