

Special Issue

Micro/Optofluidic Devices for Bio and Energy Applications

Message from the Guest Editor

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.

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)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/58046

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).