



Photonic MEMS and Optofluidic Devices

Guest Editors:

Prof. Dr. Tarik Bourouina

ESIEE/Esycom-Lab, Cité
Descartes 2 Bd Blaise Pascal,
93162 Noisy-le-Grand, France

Dr. Yasser M. Sabry

Electronics and Electrical
Communication Engineering,
Faculty of Engineering, Ain-
Shams University, 1 Elsarayat St.,
Abbassia, Cairo 11517, Egypt

Deadline for manuscript
submissions:

closed (31 January 2018)

Message from the Guest Editors

Dear Colleagues,

On-chip co-integration of movable structures together with micro-optical components led to a rich variety of photonic MEMS. Recent applications include handheld spectrometers, swept laser sources and non-invasive biomedical imaging heads. Besides, an important key for further development of microfluidic devices is the co-integration of optical technologies, including light sources and optical components leveraging the broad range of light-matter interactions, high sensitivity of optical resonators and localization of optical forces. This integration enables on-chip functionalities of cell-sorting, refractometry, optical spectrometry, fluorescence imaging, die lasing and photocatalysis; all relate to “Optofluidics”, exploiting the physics and technologies of coupling photonics with fluidics. This Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel methodological, technological and engineering developments in the area of Photonic MEMS and Optofluidic Devices. The Special Issue will also publish selected papers from the Optofluidics 2017 conference, 25–28 July 2017, Singapore.





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, St. Alban-Anlage 66
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)