micromachines

IMPACT FACTOR 3.0 | Indexed in: PubMed | CITESCORE 5.2

an Open Access Journal by MDPI

Microfluidic Device Fabrication and Cell Manipulation

Guest Editor:

Dr. Koji Matsuura
Department of Biomedical Engineering, Faculty of Engineering, Okayama University of Science, 1-1 Ridai-Cho Kita-Ku, Okayama 700-0005, Japan

Deadline for manuscript submissions:
closed (20 May 2023)

Message from the Guest Editor

Dear Colleagues,

Microfluidic devices have been used for biological cell manipulation and analyses for twenty years. Methods for device fabrication and cell-manipulation applications have a relationship with each other. Based on the improved spatial resolution and/or throughput which can be obtained through recent fabrication methods, new approaches to cell manipulation can be suggested. The necessity of cell handling leads to the design of novel microfluidic devices and the application of these devices in the biomedical field, especially in medical treatment, diagnosis, and environmental analyses for improved quality of life.

This Special Issue collects developments in novel microfluidic device fabrication and applications for cell manipulation. Potential topics include, but are not limited to, cell and tissue culture, cell sorting, biomolecular analyses, sensing, systems biology, and cell handling for biomedical applications. Bacterial, fungal (including yeasts), insect, plant, and animal cells are potential subjects, but the Issue's scope is not limited to these.

micromachines

IMPACT FACTOR 3.0 | Indexed in: PubMed | CITESCORE 5.2

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