Special Issue

Droplet-Based Microfluidic Devices

Message from the Guest Editor

Dear colleagues, Droplet-based microfluidic devices have been widely used in a variety of physical, chemical, and biological applications due to their unique advantages. The main advantages of droplet-based microfluidic devices are that they are easy to size and can produce uniform-sized droplets in large quantities. In addition, because each generated droplet allows for individual control, it can provide a novel compact reactor system for chemical mixing, synthesis, and analysis. Recent studies on the droplet-based microfluidic devices have been beneficial in biological applications such as cell research and droplet-based digital PCR because droplets are formed in the range of femtoliters to nanoliters, and the reaction time is shortened. Accordingly, this Special Issue seeks to showcase research papers and review articles that focusing on convergence disciplines related to droplet-microfluidic device applications such as precision manufacturing, droplet control, functional materials, and cell biology. We look forward to receiving your submissions.

Guest Editor

Dr. Jong Min Lee

Division of Chemical Industry, Yeungnam University College, Daegu 42415, Republic of Korea

Deadline for manuscript submissions

closed (15 April 2022)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/64067

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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

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).

MDPI