

## Special Issue

# Micromachines for Chemical Process Intensification, 2nd Edition

### Message from the Guest Editor

A sustainable society needs green, efficient, and precise chemical processes. To this end, process intensification at various scales is a common and effective strategy. Recently, micromachines as smart tools for process monitoring and manipulation have been drawing increasing attention from scientists and engineers due to concerns in recognition vision, manipulation capacity, and environmental footprint. For example, flow synthesis based on microtubes opens new reaction windows to resolve challenges in low atoms and energy utilization and large intermediate materials hold-up; microfluidic devices enable the development of labs-on-chips for high-throughput detection. Accordingly, this Special Issue seeks to showcase research papers and review articles that focus on all kinds of micromachines towards chemical process intensification. These may include fixed equipment like micromixers, microreactors, and micro-separators, or variable element like microdroplets, microbubbles, and micelles, as long they have functions or potential for the improvement of chemical processes.

### Guest Editor

Prof. Dr. Yangcheng Lu

Department of Chemical Engineering, Tsinghua University, Beijing 100084, China

### Deadline for manuscript submissions

closed (30 April 2023)



## Micromachines

an Open Access Journal  
by MDPI

Impact Factor 3.0  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/120422](https://mdpi.com/si/120422)

*Micromachines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[micromachines@mdpi.com](mailto: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).