

## Special Issue

# Micromachines for Chemical Process Intensification

### Message from the Guest Editor

A sustainable society needs green, efficient, and precise chemical syntheses. To this end, a common and effective strategy is process intensification at various scales. In recent, micromachines as tools for process monitoring, regulation, and intensification have been drawing more and more attentions by scientists and engineers due to the concerns in recognition vision, manipulation capacity, and environmental footprint. For example, flow synthesis based on microtube opens new reaction windows to resolve challenges in low atoms and energy utilization and large intermediate materials hold-up. Accordingly, this special issue seeks to showcase research papers and review articles that focus on all kinds of micromachines towards chemical synthesis intensification. They could be fixed equipment like micromixer, microreactor, and micro-separator, or variable element like microdroplet, microbubbles and micelles, as long they have functions or potentials in the improvement of chemical synthesis. Besides, the angle of view could be a chemical process, a micromachine, or an integrated system.

### Guest Editor

Prof. Dr. Yangcheng Lu

Department of Chemical Engineering, Tsinghua University, Beijing 100091, China

### Deadline for manuscript submissions

closed (30 November 2021)



## Micromachines

an Open Access Journal  
by MDPI

Impact Factor 3.0  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/65205](https://mdpi.com/si/65205)

*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

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

---

### 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).