



Micromachines for Chemical Process Intensification, 2nd Edition

Guest Editor:

Prof. Dr. Yangcheng Lu

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

Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editor

Dear Colleagues,

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Nam-Trung Nguyen

Queensland Quantum and
Advanced Technologies Research
Institute, Griffith University, West
Creek Road, Nathan, QLD 4111,
Australia

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 (Instruments and Instrumentation) / CiteScore - Q1 (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](https://twitter.com/micromach_mdpi)