# Special Issue

# Exploring the Potential Applications of Microfluidics

## Message from the Guest Editor

Microsystems have mostly been conceived of as a discipline related to Microelectronics. The downsizing of electronic systems at the regular scale was perceived as the core principle of micromachining, which was later extended to mechanical components. Microfluidics was not seen as an extension of hydraulic systems but rather as a bio-chemistry-enabling application. However, microfluidics has slowly gained the status of a microsystem with a large range of potential applications. The various applications of microfluidics include bio-medical innovations, processor cooling, and many more. Microfluidics enables fast bio-chemical tests and the production of fluid-like materials, but the full potential of the discipline is far from being achieved. Thus, this Special Issue on microfluidic applications will focus on novel technologies, new results, new applications, novel materials for microfluidics, gas working microfluidics, etc. We will consider any submission related to the fundamental aspect of microfluidics and its engineering.

## Guest Editor

Prof. Dr. Ion Stiharu

Department of Mechanical and Industrial Engineering, Concordia University, 1455 de Maisonneuve Blvd. West, Montreal, QC H3G 1M8, Canada

## Deadline for manuscript submissions

31 October 2025

**Micromachines**

**an Open Access Journal by MDPI**

**Impact Factor 3.0**
**CiteScore 6.0**
**Indexed in PubMed**

mdpi.com/si/206419

*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