

# Special Issue

## Microfluidic Sensors

### Message from the Guest Editors

After three decades of innovation and development, today's microfluidic technologies are capable of carrying out a wide variety of tasks in a most compact and integrated form. Among those tasks, sensing remains one of the most sought-after function for most point-of-care and lab-on-a-chip applications.

Commonly-used detection methods can be classified into three major types: Optofluidics, electrochemistry, and mass spectrometry. Taking advantage of recent developments in sensing techniques, large scale integration, and biotechnologies, currently available tools seem to be unlimited. From surface acoustic wave sensors to CMOS sensors to paper-based biosensors, many new demonstrations include, but are not limited to: Heavy metals, small molecules, proteins, DNA, bacteria, and eukaryotic cells measurements.

This Micromachines Special Issue on "Microfluidic Sensors" intends to collect the most relevant original short communications, review articles, and research papers, from industry and academia. We welcome your contribution and we would also appreciate your referral to a colleague who might be interested.

---

### Guest Editors

Dr. Jie Xu

Mechanical and Industrial Engineering, University of Illinois at Chicago,  
842 W Taylor St, Chicago, IL 60607, USA

Dr. Sébastien Méance

IES, Institut d'Electronique et des Systèmes, CNRS / Univ Montpellier,  
860 rue de Saint Priest, Bâtiment 5, 34090 Montpellier, France

---

### Deadline for manuscript submissions

closed (15 October 2018)



# Micromachines

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/10828](https://mdpi.com/si/10828)

*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.

---

### 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 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).