



*sensors*



an Open Access Journal by MDPI

## Microwave-Microfluidic Integrated Sensors and Devices

Guest Editors:

**Dr. Jin Li**

School of Engineering, Cardiff University, Cardiff CF24 3AA, UK

**Dr. Heungjae Choi**

School of Engineering, Cardiff University, Cardiff CF24 3AA, UK

Deadline for manuscript submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

Microfluidics is a precision tool for the manipulation of small volume fluid within micro-machined manifolds and devices. In the last two decades, integrated microfluidic platforms have been extensively devised for many sensing and diagnostic tasks in both physics and life science research. Microwave-microfluidic sensors is an emerging technology for real-time, non-invasive measurement of solvent electrical properties with high-resolution sensing performance, which may play an important role in evaluating and understanding chemical reactions and biological processes in situ. The combination of integrable microwave elements and microfluidic circuits shows new capabilities in a wide range of applications, including flow chemistry, polymer processing, material synthesis, biomedicine, and clinical usage.

- microfluidics
- microwave sensors
- microwave power delivery
- interdisciplinary research

If you want to learn more information or need any advice, you can contact the Special Issue Editor Jincy Jiao via <jincy.jiao@mdpi.com> directly.



[mdpi.com/si/138788](https://mdpi.com/si/138788)

**Special** Issue



*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## 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](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)