# **Special Issue**

## Biomedical Sensors Based on Microfluidics

## Message from the Guest Editors

This Special Issue endeavors to present leading-edge research in the development of medical, biomolecular, and biochemical sensors integrated with microfluidic platforms and their diverse applications in diagnostics, continuous monitoring, and personalized medicine. Topics of interest include, but are not limited to, the following:

- Electrochemical and chemical sensors;
- Optical biosensors and biomedical imaging;
- Acoustofluidic and piezoelectric devices;
- Lab-on-a-chip and organ-on-a-chip devices;
- Wearable devices;
- Extracellular vesicles and nanoparticles;
- Nano-biosensors, nanomaterials, and nanoanalytical systems;
- Nucleic acid analysis and aptasensors;
- Enzyme-based sensors and immunosensors;
- CRISPER technique;
- Polymers, synthetic receptors, and molecularly imprinted polymers;
- Biomaterials and bioengineered sensors.

## **Guest Editors**

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## Deadline for manuscript submissions

25 December 2025



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## About the Journal

### 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.

#### Editor-in-Chief

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

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