

## Special Issue

# Recent Innovations in Microfluidics Devices, Biosensors, and Associated Data Analysis

### Message from the Guest Editors

The goal of the present Special Issue is to bring together insights from engineering, biology, and material and data science to support the transition of microfluidic technology and biosensors from the lab bench to clinical and industrial applications. This collection of work integrates recent advancements in microfluidics and biosensors, with a focus on organ-on-chip systems, microphysiological systems, bioprinting, electrochemical biosensors, and impedance and deformability cytometry. We are particularly interested in studies involving biosensors, whether introducing novel designs or integrating them into microfluidic platforms and organ-on-chip devices. We also invite work that tackles data analysis challenges in this field, especially those leveraging modern machine learning or deep learning approaches, as well as contributions in material science to develop novel biosensing devices. Both original research and review articles are welcome for submission.

### Guest Editors

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### Deadline for manuscript submissions

1 June 2026



## Sensors

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### 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.

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