# Special Issue

# Microfluidic Bio-Sensors and Their Applications

### Message from the Guest Editor

The integration of microfluidics and sensing technology is a rapidly developing field with major applications towards diagnostic devices, including rapid detection for food safety, chemical and biological research, medical diagnostics, and environmental monitoring. This Special Issue is dedicated to covering innovations over a variety of topics in this area, from sensing to manufacturing and integration methods to novel microfluidic-based sensors for biological application. The scope of the journal is wide on biosensing, including but not limited to the following areas:

- Lab-on-a-chip and other biochips and microarray systems;
- Novel microfluidic based biosensing concepts, mechanisms, and detection principles;
- 3D printed microfluidic and biosensing devices;
- Development of biosensor methodologies and applications;
- Fabrication technology of chip-based detection devices;
- Scaffold based biomimetic systems and microfluidic devices for biosensing application;
- Biological and chemical actuators, including smart materials and microfluidic components;
- Biophotonic sensors and chemical sensing systems.


### Guest Editor

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### Deadline for manuscript submissions

closed (10 December 2022)


## Biosensors

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Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/44402

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# About the Journal

## Message from the Editor-in-Chief

*Biosensors* is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

## Editor-in-Chief

Prof. Dr. Giovanna Marrazza
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

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