

## Special Issue

# Biosensors Based on Microfluidic Devices—2nd Edition

### Message from the Guest Editors

Biosensors have been widely used in point-of-care testing (POCT) fields, such as clinical diagnosis, food safety, and environmental monitoring. Recently, significant efforts have been made on the development of portable, reliable, and rapid-responsive biosensing platforms. Because of their easy integration, small sample consumption, precise manipulation of fluid, and high-throughput analysis, microfluidics offer significant advantages over traditional biosensing systems. Various microfluidic structures have been designed for analyte enrichment, target separation, multiplexed analysis, and sensing material fabrication. Based on the application scenarios, these microfluidic components, when integrated with signal transducers such as surface-enhanced Raman scattering (SERS), surface plasma resonance (SPR), and electrochemical techniques, form miniaturized devices that have gained increasing popularity in POCT applications. This issue aims to focus on the biosensing methods and devices based on microfluidics. Original research articles, short communications, and reviews are all welcome.

---

### Guest Editors

Prof. Dr. Jun Yang

Key Laboratory of Biorheological Science and Technology, Ministry of Education, Bioengineering College, Chongqing University, Chongqing 400030, China

Dr. Ning Hu

Bioengineering College, Chongqing University, Chongqing 400030, China

---

### Deadline for manuscript submissions

closed (25 November 2025)



## Biosensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.6  
CiteScore 9.8  
Indexed in PubMed



[mdpi.com/si/204222](https://mdpi.com/si/204222)

*Biosensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biosensors@mdpi.com](mailto:biosensors@mdpi.com)

[mdpi.com/journal/  
biosensors](https://mdpi.com/journal/biosensors)





# Biosensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.6  
CiteScore 9.8  
Indexed in PubMed



[mdpi.com/journal/  
biosensors](https://mdpi.com/journal/biosensors)



## 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

Department of Chemistry "Ugo Schiff", University of Florence, Via della  
Laustruccia 3, 50019 Sesto Fiorentino, Italy

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Embase, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).