# **Special Issue**

# Advanced Biosensors and Bioelectronics: From Liquid Metal-Based to Flexible Devices

### Message from the Guest Editors

Biosensors and bioelectronics play a pivotal role in medical diagnostics, environmental monitoring, and food safety. The high conductivity, malleability, and biocompatibility of liquid metals offer new possibilities for the innovation of biosensors. This Special Issue invites submissions on the cutting-edge research and applications of liquid metals in the field of biosensing, focusing on the following themes:

- Liquid metals as biomedical materials: exploring the synthesis, properties, and biomedical applications of liquid metals, including drug delivery systems, artificial implants, and tissue engineering;
- Manufacturing techniques for liquid metal sensors: research on and development of manufacturing processes for liquid metal sensors, covering material selection, device design, processing techniques, and integration methods to enhance sensor performance and reliability;
- Prospects of liquid metals in biosensing: analyzing the trends and future applications of liquid metals in biosensing, discussing potential improvements to existing technologies, and proposing new concepts.

We welcome original research papers, review articles, and case reports.

#### **Guest Editors**

Dr. Rui Guo Laboratory of Biomedical Flexible Electronics, Department of Biomedical Engineering, Tianjin University, Tianjin, China

#### Dr. Xuyang Sun School of Engineering Medicine, Beihang University (BUAA), Beijing 100191, China

# Deadline for manuscript submissions

31 December 2025



# **Biosensors**

an Open Access Journal by MDPI

Impact Factor 5.6 CiteScore 9.8 Indexed in PubMed



mdpi.com/si/206159

Biosensors Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 biosensors@mdpi.com

mdpi.com/journal/

biosensors



# Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6 CiteScore 9.8 Indexed in PubMed



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 Lastruccia 3, 50019 Sesto Fiorentino, Italy

## **Author Benefits**

## High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, 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 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).