# **Special Issue**

# Material-Based Biosensors and Biosensing Strategies

# Message from the Guest Editors

The Special Issue will focus on novel materials such as nanomaterials, conductive polymers, and biomimetic structures that are revolutionizing the biosensing landscape. We seek original research articles and reviews that highlight the synthesis, characterization, and application of these materials in biosensing applications. Topics of interest include, but are not limited to: 1. Nanomaterials in Biosensing: The use of nanoparticles, quantum dots, and nanocomposites to improve biosensor performance;

- Biomaterials: Exploration of natural polymers and biorecognition elements that enhance sensor functionality;
- 3. Microfluidic and Lab-on-a-Chip Technologies: Innovations in integrating materials into miniaturized platforms for real-time analysis;
- 4. Smart Biosensing Strategies: Development of biosensors with advanced signal transduction mechanisms, including electrochemical, optical, and piezoelectric methods;
- Applications: The practical application of materialbased biosensors in clinical, environmental, or agricultural settings.

#### **Guest Editors**

Dr. Huanyu Cheng

Prof. Dr. Cheng-Te Lin

Prof. Dr. Yige Zhou

## Deadline for manuscript submissions

31 December 2025



# **Biosensors**

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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

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

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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).

