

Special Issue

The Emerging Techniques in Biosensors and Bioelectronics

Message from the Guest Editor

Biosensors have become omnipresent in contemporary biomedical diagnostics. Their applications extend to diverse domains, encompassing point-of-care monitoring of treatment and disease progression, environmental surveillance, food quality control, drug discovery, forensics, and biomedical research. The development of biosensors involves the emerging of novel detection techniques, and their integration with high-affinity biomolecules facilitates the precise detection of a wide array of analytes. This Special Issue, entitled "Emerging Techniques in Biosensors and Bioelectronics: Selected Papers from the International Conference on Biosensors and Bioelectronics, 2024", aims to spotlight the latest advancements in biosensor research and their multifaceted applications across healthcare, environmental ecology, and food safety. We eagerly welcome submissions that showcase the forefront of developments in this research field. Topics may include, but are not limited to the following:

- Optical biosensors;
- Nanotechnology in biosensors;
- Flexible and wearable biosensors;
- Portable biosensors;
- Artificial intelligence (AI) in biosensing and analysis.

Guest Editor

Prof. Dr. Shunbo Li

College of Optoelectronic Engineering, Chongqing University,
Chongqing, China

Deadline for manuscript submissions

closed (1 November 2025)



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

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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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