

Special Issue

Chemical and Biochemical Sensors/Nanosensors for Medical, Environmental and Security Applications

Message from the Guest Editor

Low-cost chemical and biochemical sensors/nanosensors for point-of-care or in-field diagnostics in the medical, environmental, and security areas are extremely important for the health and wellbeing of our society. Therefore, this Special Issue aims at presenting, discussing, and reviewing the latest materials and technologies developed to obtain sensitive, specific, and user-friendly devices that can be used outside the laboratory. This will include the latest developments on the design of robust novel sensing elements such as aptamers and molecularly imprinted polymers and any other stable bioengineered receptors and their use in chemical sensors. In addition, novel materials/nanomaterials to obtain sensitive transducers such as optical, electrochemical, and micro-mechanical will also be covered by the Special Issue.

Guest Editor

Dr. Iva Chianella

School of Aerospace, Transport and Manufacturing, Cranfield University, Cranfield, Bedfordshire MK43 0AL, UK

Deadline for manuscript submissions

closed (30 September 2023)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/116837

Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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
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).