

Special Issue

Semiconductor Nanomaterials-Based Biosensors and Their Applications

Message from the Guest Editor

This Special Issue covers a range of topics, from the methods for preparation of semiconductor nanomaterials to their application in biosensor fields. These semiconductor-based sensing materials include semiconductor quantum dots, porous semiconductor, semiconductor nanowires, and 2D and 3D semiconductor microstructures. Manuscripts reporting recent advances on the application of semiconductor nanomaterials in chemical sensors and biosensors, theranostic platforms, microfluidic chips, and biomedical devices are encouraged. The goal of this Special Issue is to publish a range of articles that are useful to a wide readership in the fields of biosensors, biomedical engineering, and clinical diagnosis.

Guest Editor

Prof. Dr. Jianmin Wu
Department of Chemistry, Zhejiang University, Hangzhou 310012, China

Deadline for manuscript submissions

closed (29 February 2024)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 12.1
Indexed in PubMed



mdpi.com/si/136490

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 12.1
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).