

Special Issue

Nanocomposite-Based Biosensors: Recent Advances and Perspectives

Message from the Guest Editors

Nanocomposite-based biosensors are promising for sensitive, selective, and rapid detection in various fields like healthcare, environment, and food safety.

Integrating nanomaterials with biorecognition elements has transformed biosensing by enhancing device performance. This Special Issue aims to highlight recent advances in nanocomposite-based biosensors. Topics of interest for this Special Issue include, but are not limited to:

- Design and synthesis of novel nanocomposite materials for biosensing.
- Development of nanocomposite-based platforms for point-of-care diagnostics.
- Integration of nanocomposites with biofunctional molecules for enhanced biosensing.
- Fabrication and characterization of nanocomposite-based sensors.
- Challenges and future perspectives in nanocomposite-based biosensors.

Authors are invited to submit original research articles, reviews, and perspectives that address these topics.

Submissions should present novel findings or approaches, demonstrating the potential impact of nanocomposite-based biosensors in advancing biosensing.

Guest Editors

Dr. Marco Aurélio Suller Garcia

Nanotechnology Engineering Program, Alberto Luiz Coimbra Institute for Graduate Studies and Research in Engineering (COPPE), Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro 21941-972, RJ, Brazil

Dr. Andre Henrique Baraldi Dourado

Instituto de Química, Universidade Estadual Paulista, São Paulo, Brazil

Deadline for manuscript submissions

closed (29 February 2024)



Biosensors

an Open Access Journal
by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed



mdpi.com/si/179137

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
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).