Special Issue

Molecularly Imprinted Polymers in Biosensors: Assembly, Characterization and Applications

Message from the Guest Editors

Molecularly imprinted polymers (MIPs) are synthetic biomimetic materials with highly selective recognition sites that are at the forefront of modern biosensor technology, transforming electrochemical/optical-photonic detection in terms of affordability, scalability and adaptability. They can be produced cheaply and quickly through a variety of polymerisation techniques, with all aspects of the production process being critical to creating a material suitable for use. The applications of MIPs in biosensors are diverse and range from clinical diagnostics to environmental monitoring and food safety. Chemometrics is also considered a relevant approach concerning the assembly and application of MIP-based biosensors. This Special Issue invites cutting-edge research and innovative reviews on the latest advances in MIP-based biosensors. We welcome contributions that explore new fabrication techniques, surface modifications, characterisation methods and new applications in the fields of healthcare, environmental monitoring, food safety and point-of-care diagnostics.

Guest Editors

Prof. Dr. Maria Goreti Ferreira Sales

Dr. Jordi Riu

Dr. Manuela F. Frasco

Deadline for manuscript submissions

25 December 2025

Biosensors

an Open Access Journal by MDPI

Impact Factor 5.6
CiteScore 9.8
Indexed in PubMed

mdpi.com/si/237687

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

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

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).

MDPI