



Micro-nano Optic-Based Biosensing Technology and Strategy

Guest Editor:

Prof. Dr. Wenchao Zhou

State Key Laboratory of Applied
Optics, Changchun Institute of
Optics, Fine Mechanics and
Physics, Chinese Academy of
Sciences, Changchun 130033,
China

Deadline for manuscript
submissions:

20 May 2025

Message from the Guest Editor

Dear Colleagues,

A micro/nano optical *biosensor* integrates a biorecognition element with an micro/nano transducer, which analyses the change in the properties of light that result from the interaction of the biorecognition element with the analyte. The distinct advantages offered by micro/nano optics *biosensors*, such as rapid detection, real-time operation, efficacy, label-free detection, and robustness, make them superior to many other conventional *biosensing* techniques, and various micro/nano technologies have offered new opportunities to further improve the sensitivity, selectivity, response time and biocompatibility of *biosensors* in light of their physical, chemical, electrical and electrochemical properties.

In conclusion, this Special Issue aims to highlight the most recent and promising micro/nano technologies utilized in the development of *biosensors* for biomedical applications.

Prof. Dr. Wenchao Zhou

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Chemistry, Analytical) / CiteScore - Q1 (Engineering (miscellaneous))

Contact Us

Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
[X@Biosensors_MDPI](https://twitter.com/Biosensors_MDPI)