



Optical Fiber Sensors for Biomedical Application

Guest Editors:

Prof. Dr. A Ping Zhang

Photonics Research Institute,
Department of Electrical
Engineering, The Hong Kong
Polytechnic University, Kowloon,
Hong Kong

Dr. Alexis Mendez

MCH Engineering LLC, Alameda,
CA 94501, USA

Deadline for manuscript
submissions:

closed (25 April 2024)

Message from the Guest Editors

Optical fiber sensors represent a unique type of sensor technology. They have enabled the development of various sensor technologies for many different applications. One of the emerging and promising applications of optical fiber sensors is in biomedical sensors and devices. This is an up-and-coming technology that holds great potential in the areas of biomedical diagnosis and surgery. This Special Issue provides a platform for both the academic community and industry to report and share recent developments and progress within this field. Prospective authors are encouraged to send submissions of articles on, but not limited to, the following subjects:

- Novel specialty optical fibers (glass or POF) for biomedical applications
- Fiber-optic sensors, optrodes and probes for physiological, chemical, or biological sensing
- Optical fiber-tip plasmonic/metasurface biosensors
- Lab-on-a-fiber solutions
- Optical fiber-based Raman spectroscopy probes
- Optical coherence tomography (OCT) probes
- Fiber-optic diagnostic, therapeutic or treatment techniques
- Fiber catheters for robotic and minimally invasive surgery (MIS) applications
- Optical fiber-embedded plates and tapes for digital X-rays





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, CAPus / SciFinder, Inspec, and other databases.

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

Contact Us

Biosensors Editorial Office
MDPI, St. Alban-Anlage 66
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)