



## New Progress in Optical Fiber-Based Biosensors

Guest Editors:

**Prof. Dr. Arnaldo Leal-Junior**

Graduate Program in Electrical Engineering, Federal University of Espírito Santo, Vitoria 29075-910, Brazil

**Dr. Camilo A.R. Díaz**

Graduate Program in Electrical Engineering, Federal University of Espírito Santo, Vitoria 29075-910, Brazil

Deadline for manuscript submissions:

**closed (31 July 2023)**

### Message from the Guest Editors

Dear Colleagues,

Optical biosensors are analytical devices consisting of a biorecognition element integrated into an optical transducer system, which generates signals proportional to the concentration of the analyte and provides label-free or label-based and real-time detection. Designing, developing, and improving optical biosensors' attributes is a challenging and important topic for several applications, such as healthcare and disease diagnosis, environmental monitoring, water and food quality monitoring, and drug delivery. In this context, it is a pleasure to announce this Special Issue entitled "New Progress in Optical Fiber-Based Biosensors", where original research and reviews of new fabrication processes, materials, transducing devices, and immobilization methods of optical biosensors are cordially invited. We hope that this Special Issue will further encourage and promote scientific contributions by researchers in the biosensors field.





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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Biosensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/biosensors](http://mdpi.com/journal/biosensors)  
[biosensors@mdpi.com](mailto:biosensors@mdpi.com)  
[X@Biosensors\\_MDPI](https://twitter.com/Biosensors_MDPI)