



## Optical Fiber Sensors for Chemical and Biomedical Applications

Guest Editors:

**Prof. Dr. Xinyong Dong**

School of Information  
Engineering, Guangdong  
University of Technology,  
Guangzhou 510006, China

**Prof. Dr. Chi Chiu Chan**

Center for Smart Sensing System,  
Julong College, Shenzhen  
Technology University, Shenzhen  
518118, China

Deadline for manuscript  
submissions:

**closed (20 March 2023)**

### Message from the Guest Editors

With the rapid development of industrialization as well as the growth of the world population, there is a great demand for environmental protection and healthcare management. Detection towards ecological environmental parameters and physiological parameters is thus brought to the forefront. Fiber-optic sensors have drawn considerable interest because of their unique properties of small dimensions, capability of multiplexing, chemical inertness, and immunity to electromagnetic fields, and have found wide applications. This Special Issue is addressed to all types of optical-fiber sensors designed for chemical and biomedical applications.

Keywords:

- optical fiber
- chemical application
- biomedical application
- environmental monitoring
- healthcare monitoring
- wearable sensor





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## 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](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

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

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

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)