

## Special Issue

# Optical Spectroscopy, Imaging and Sensing for Biomedical Applications

### Message from the Guest Editors

Optical spectroscopy, sensing and imaging have drawn much attention, owing to the rich interactions of light, including absorption, scattering, and transmission, with particular compounds inside the human body. Some of these optical modalities have been successfully translated to biomedical applications, such as microscopy, endoscopy and optical coherence tomography (OCT), etc. Some of the emerging modalities are still under development, such as photoacoustic imaging, Raman spectroscopy and fiber sensing, etc. This Special Issue will focus on the recent developments and advances in this domain. Both original and review articles are welcome. Reviews should provide a balanced overview of the recent advances in the specified area with a sufficient bibliography. Potential topics include, but are not limited to, the following:

- Photoacoustic sensing/imaging;
- Raman spectroscopy;
- Multispectral sensing/imaging;
- Fiber sensors;
- Fluorescence sensing/imaging;
- Novel biomedical applications.

---

### Guest Editors

Dr. Ruochong Zhang

Dr. Fei Gao

Dr. Qi Yi

---

### Deadline for manuscript submissions

closed (20 February 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.5**  
**CiteScore 8.2**  
**Indexed in PubMed**



[mdpi.com/si/149878](https://mdpi.com/si/149878)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## About the Journal

### 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.

---

### 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

---

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