



## Novel Optical Sensors for Biomedical Applications—2nd Edition

Guest Editor:

**Prof. Dr. Benjamin L. Miller**

Department of Dermatology,  
University of Rochester,  
Rochester, NY 14642, USA

Deadline for manuscript  
submissions:

**25 April 2026**

### Message from the Guest Editor

Dear Colleagues,

I am pleased to invite you to submit manuscripts for a Special Issue of the journal *Sensors* on “Novel Optical Sensors for Biomedical Applications”. This Special Issue will highlight research focused on the development and use of new optical sensors for medical diagnostics, biomedical research, and related endeavors. Papers describing new optical diagnostics methods for point-of-care, field-use, and resource-limited applications are encouraged, as are those reporting novel assays, multiplex testing systems, “lab-on-a-chip” sensors, and spectroscopic methods. Both application-focused and fundamental contributions (with likely downstream applications in biomedicine) are welcome.

Topics of this special issue will include, but are not limited to:

- Optical sensing
- Point-of-care diagnostics
- Developing world diagnostics
- Integrated photonics for sensing
- Plasmonics
- Multiplex detection
- Spectroscopy
- Lab-on-a-chip devices





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

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

Department of Electrical and  
Information Engineering,  
Politecnico di Bari, Via Orabona  
4, 70126 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 (Instruments and Instrumentation) / 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](#)