

## Special Issue

# Recent Advances in Microfluidics-Integrated Optical Biosensors

### Message from the Guest Editor

The emergence of integrated electronics marks the beginning of the integrated devices era. To successfully integrate them, parts should be smaller and smaller, which has led us to the microworld. The technology of creating microelectronics has brought the strong development of photolithography and photoresists. We have this Special Issue for gathering the recent advances in the blooming field of integrated optical biosensors and their applications. Manuscripts are warmly welcome that report on the newest advances on topics, included but not limited to:

- Label-free detection;
- All optical biosensors;
- Integrated optical sensory devices;
- Evanescent field-based biosensors (ATR);
- Surface plasmon resonance sensors;
- Bragg Grating Fiber sensors (FBG);
- Integrated optical microcavity sensors.

For more information, please visit: [mdpi.com/si/175611](https://mdpi.com/si/175611)

---

### Guest Editor

Dr. Sándor Valkai

Institute of Biophysics, HUN-REN Biological Research Centre, 6726 Szeged, Hungary

---

### Deadline for manuscript submissions

closed (20 April 2025)



## Sensors

---

an Open Access Journal  
by MDPI

---

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



[mdpi.com/si/175611](https://mdpi.com/si/175611)

*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)