



sensors



an Open Access Journal by MDPI

Recent Advances in Microfluidics-Integrated Optical Biosensors

Guest Editor:

Dr. Sándor Valkai

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

Deadline for manuscript
submissions:

closed (20 April 2025)

Message from the Guest Editor

Dear Colleagues,

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

Dr. Sándor Valkai

Guest Editor



mdpi.com/si/175611

Special Issue



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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)