

Topical Collection

Optical Chemical Sensors: Design and Applications

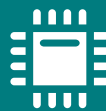
Message from the Collection Editor

The design of optical chemical sensors (OCSs) has rapidly become a vast, fascinating, and multifaceted field due to the great variety of operating principles, the virtually infinite number of sensing materials and measurands, and the increasingly wider range of present and potential applications. While existing technologies have matured to a commercial level, novel concepts and strategies are coming to light, prompted by a growing concern about old and new chemical pollution, the quest for imaging-based sensing and diagnostics, and the need for portable low-cost sensors. Moreover, OCSs can be easily integrated with photonics, microfluidics, and array-based detection for implementation in wireless, wearable, point-of care, and even smartphone-based systems. As a result, applications encompass almost all aspects of our life, ranging from environmental monitoring to process control, including food analysis, medicine, biotechnology, and security. We invite investigators to submit high-quality papers that deal with all aspects of this exciting field. Link: <https://www.mdpi.com/>

Collection Editor

Prof. Dr. Roberto Pizzoferrato

Department of Industrial Engineering, Università degli Studi di Roma Tor Vergata, Rome, Italy



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/70538

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)