

Special Issue

Rapid Screening in the Life Science Based on Photonics and Plasmonics Technology

Message from the Guest Editors

Rapid screening is becoming an urgent need in life science. Efficient and cost-effective devices for fast identification of viral or bacterial fingerprints are crucial for the restoration of normal daily activities during and after the pandemic. Besides, monitoring of pharmacological treatments is of utmost importance in long-term healthcare and in preventing infections (such as sepsis or in the treatment of chronic wounds). Sensing allergens, pathogens and contaminants fulfills a key role in food safety. Photonics and plasmonics can support the development of integrated platforms enjoying the appropriate accuracy and complying with the design of compact, portable and easy-to-use devices for biosensors and biomarker recognition with fast response. Keywords:

- biomarkers
- nanoparticles
- laser
- photoacoustics
- Raman
- biosensors
- food safety
- wound healing
- infection
- viruses
- bacteria

Guest Editors

Dr. Fulvio Ratto

Istituto di Fisica Applicata "Nello Carrara", Consiglio Nazionale delle Ricerche (CNR-IFAC), 50019 Florence, Italy

Dr. Francesca Rossi

Institute of Applied Physics "Nello Carrara", CNR-IFAC, Via Madonna del Piano 10, 50019 Sesto Fiorentino, Italy

Deadline for manuscript submissions

closed (15 February 2024)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/87844

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)