

Special Issue

Advances in Fluorescence and Raman Spectroscopy Techniques

Message from the Guest Editor

This Special Issue aims to provide a venue for researchers to share their work and continued efforts towards the advancement of optical microscopy and spectroscopy techniques, with the hopes of finding novel applications for such techniques. Original research and review articles for this Special Issue can include, but are not limited to:

- Laser sources and detectors for advanced fluorescence and Raman spectroscopy techniques;
- The simulation, design and fabrication of novel sensors and biomarkers with improved efficiency;
- Algorithms and methods for data processing and analysis;
- Nanomaterials and optical nanostructures for improved resolution and sensitivity, including simulation, design, synthesis, growth and fabrication technologies;
- The application of advanced optical spectroscopy techniques in biomedicine, environmental sciences and information technology.

Guest Editor

Dr. Huizhong Xu

Department of Physics & Astronomy, San Francisco State University,
San Francisco, CA, USA

Deadline for manuscript submissions

30 June 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/141769

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)