



sensors



an Open Access Journal by MDPI

Optical Sensing and Technologies

Guest Editors:

Prof. Dr. Fan Wang

School of Physics, Beihang University, Beijing 100191, China

Dr. Chaohao Chen

School of Electrical and Data Engineering, Faculty of Engineering and Information Technology, University of Technology Sydney, Sydney 2007, Australia

Dr. Xuchen Shan

School of Physics, Beihang University, Beijing 100191, China

Message from the Guest Editors

Optical sensing technologies play key roles in information monitoring, information detection, optical imaging, spectroscopic detection, and other disciplines. Their applications cover technologies such as optics, materials, and imaging—for example, spectral detection technology, compressed sensing imaging technology, optical fiber sensing technology, real-time optical information monitoring system, and so on. The development of optical sensing and technology is also conducive to promoting the development of optical sensing and information detection and leads to a wide range of interdisciplinary applications.

This Special Issue will collect both reviews and original research papers that explore advances in optical sensing and technologies. Topics of interest include but are not limited to the following areas:

- Optical sensing
- Optical fiber sensing
- Spectroscopic detection
- Optical tweezers
- Single-molecule tracing
- Compressed sensing imaging
- Nanophotonics
- Optical transducers

Deadline for manuscript submissions:

closed (31 March 2024)



mdpi.com/si/154123

Special Issue



sensors



an Open Access Journal by MDPI

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

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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