

Special Issue

Fiber-Optic Sensing Devices and Systems

Message from the Guest Editor

Fiber-optic sensing has emerged as a cornerstone technology for advanced monitoring and measurement across diverse industries. By leveraging the unique properties of optical fibers, these systems enable distributed and point sensing with exceptional sensitivity, long-range capability, and immunity to electromagnetic interference.

This Special Issue focuses on recent advances in fiber-optic sensing devices and integrated systems, encompassing fundamental principles, novel sensor designs, and cutting-edge interrogation techniques. It aims to highlight innovations in distributed sensing (Brillouin, Raman, and Rayleigh) as well as point (fiber Bragg gratings) and hybrid sensing approaches. Applications span structural health monitoring, energy infrastructure, environmental sensing, biomedical diagnostics, and emerging fields such as smart cities and autonomous systems. By bringing together contributions from academia and industry, this Issue seeks to provide a comprehensive perspective on the current state, challenges, and future directions of fiber-optic sensing technologies.

Guest Editor

Dr. Hani J. Khashi

1. Aston Institute of Photonic Technologies, College of Engineering and Physical Sciences, Aston University, Birmingham B4 7ET, UK
2. Medical Physics Department, College of Science, University of Warith Al-Anbiyaa, Karbala, Iraq

Deadline for manuscript submissions

30 September 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/264193

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
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 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)