

Special Issue

Recent Advances in Optical and Optoelectronic Acoustic Sensors

Message from the Guest Editors

Optical acoustic sensing technology has emerged as a transformative innovation across industrial, defense, meteorological, and public safety domains. Distinguished from conventional electrical counterparts, optical and optoelectronic acoustic sensors demonstrate superior performance through enhanced sensitivity, exceptional environmental resilience, and their inherent compatibility with networked systems. Recent advancements spanning fundamental sensing mechanisms, device architecture optimization, system integration engineering, and intelligent signal processing algorithms have significantly addressed critical technical barriers while deepening our comprehension of photonic–acoustic interactions. This Special Issue is dedicated to showcasing cutting-edge developments and practical implementations of optical acoustic sensing technologies, highlighting their growing potential to revolutionize condition monitoring, environmental surveillance, and advanced detection systems in demanding operational scenarios.

Guest Editors

Prof. Dr. Zhimei Qi

Dr. Pawan K. Kanaujia

Dr. Liuxian Zhao

Dr. Shuang Wang

Dr. Jifang Tao

Deadline for manuscript submissions

closed (1 May 2026)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/237369

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 9.4
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)