

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.

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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

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