Special Issue

Optical Fiber Sensors for Acoustic, Electric, and Magnetic Field Detection

Message from the Guest Editors

Fiber optic sensors have found commercial success in several applications to include reservoir monitoring and exploration in oil and gas, structural health monitoring of critical infrastructures, and health and condition monitoring of telecommunication cables. The maturation and widespread acceptance of acoustic, strain, and temperature sensors has reinvigorated efforts to expand the capabilities of fiber optic sensing technologies. The reliable, accurate, and real-time detection and quantification of acoustic, electric and magnetic fields with optical fiber sensors has the potential to accelerate the development, understanding and control of modern day systems and processes. The goal of this Special Issue is to compile and highlight the most recent developments in optical fiber-based technologies for the sensing acoustic, electric, and magnetic fields and their applications. We encourage the submission of original research papers or review articles that discuss the design and experimental performance of fiber sensors, as well as the design, development, and applications of novel specialty optical fibers.

Guest Editors

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Deadline for manuscript submissions

25 July 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/241773

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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.

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