

Special Issue

Emerging Technologies and Applications in Fiber Optic Sensing

Message from the Guest Editors

This Special Issue focuses on cutting-edge advancements in fiber optic sensing technologies and their transformative applications across diverse industries. Fiber optic sensors have revolutionized fields such as aircraft condition monitoring, structural health monitoring, environmental sensing, energy industry systems, and biomedical diagnostics due to their unparalleled sensitivity, immunity to electromagnetic interference, and capability for distributed measurements. This Special Issue aims to bridge the gap between fundamental fiber optic breakthroughs and mission-critical engineering applications, showcasing innovative research on emerging tools like specialty optical fibers, distributed acoustic sensing (DAS), distributed temperature sensing (DTS), fiber Bragg gratings (FBGs), fiber lasers, and novel fiber optic devices. Submissions addressing challenges in scalability for industrial deployment, novel fabrication methodologies, and field-validated case studies are particularly encouraged. We look forward to your groundbreaking contributions!

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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