

Special Issue

Optical Fiber Sensing: Recent Advances and Future Perspectives, 2nd Edition

Message from the Guest Editor

We invite both experimental and theoretical submissions of original articles, review articles, and technical notes that focus on recent advances and future directions in the field of optical fiber sensing. Topics of interest include, but are not limited to, the following:

- Novel sensing devices, components, and/or applications with optical fiber;
- Innovative optical fiber geometry structures, materials, and splicing techniques (such as specialty optical fiber, hollow core fiber, multicore fiber, and photonics crystal fiber);
- Intrinsic/extrinsic modifications to optical fiber (such as fiber Bragg gratings, long period gratings, interferometry, fiber lasers, femtosecond laser inscription, focused ion beam, chemical vapor deposition, metamaterials, and multimaterial);
- Advanced spectroscopy, imaging, interrogator techniques with optical fiber;
- Extract insights from optical fiber data with advanced data analysis (such as time series analysis and machine learning);
- Optical fiber integration into optoelectronics or multifunctional devices/systems (such as to increase performance and endurance).

We look forward to receiving your submissions!

Guest Editor

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Deadline for manuscript submissions

closed (30 July 2025)



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About the Journal

Message from the Editor-in-Chief

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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