Special Issue

Photonics & Optical Fiber Sensors: Recent Advancements, Emerging Trends, and Future Prospects

Message from the Guest Editors

Photonics and optical fiber sensing is a new generation of sensing technology that senses and transmits signals from external stimuli using optical fibers (or others) as the medium and optical waves or photons as the carrier. This Special Issue will have a dedicated focus on the recent advancements, emerging trends and future prospective aspects in photonics and optical sensing covering theory, design and fabrication, modelling, and application etc. We encourage you to submit theoretical and experimental submissions of original articles, letters, and reviews to provide a useful insight into the current status and trends, and future aspects in this area. We look forward to receiving your contributions. Topics of interest include both research and reviews but are not limited to:

- Fiber optic sensors (Physical, chemical, biological)
- Fiber interferometric sensors
- Sensors based on resonance, plasmonics, surface enhanced phenomena
- Distributed fiber sensing
- Integrated photonics sensors
- Microfluidics
- Fiber Grating sensors
- Application of AI/ML in optical sensing

Guest Editors

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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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