

Special Issue

Optical Fiber Sensors: Design and Application

Message from the Guest Editors

Optical fiber sensors are renowned for their exceptional sensitivity, compactness, and ability to operate in harsh environments, making them essential in fields such as environmental monitoring, structural health diagnostics, biomedical applications, and industrial process control. This Special Issue focuses on the innovative design of optical fiber sensor structures, including fiber Bragg gratings, long-period gratings, interferometric sensors, and advanced micro-structured fibers. Emphasis will be placed on novel fabrication methods, the integration of functional materials, and approaches to enhance sensitivity, selectivity, and robustness. Contributions showcasing applications of optical fiber sensors in emerging fields like industrial automation, aerospace, smart cities, IoT, autonomous systems, green energy solutions, and materials science are particularly encouraged. This Special Issue seeks to provide a platform for researchers and engineers to present their cutting-edge work, foster collaboration, and drive innovation in the evolving field of optical fiber sensing.

Guest Editors

Dr. Yiwei Ma

Dr. Zicheng Wang

Prof. Dr. Jing Zhang

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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