

Special Issue

Progress and Prospects in Optical Fiber Sensing

Message from the Guest Editor

Optical fiber sensing has made significant progress in recent years and holds great prospects for the future. With its ability to detect changes in temperature, strain, pressure, and other physical and chemical parameters, this technology has become critical in various fields, including structural health monitoring, industrial process control, and environmental sensing. Advances in fiber optic technology, signal processing, and sensing algorithms have led to improvements in the sensitivity, accuracy, and reliability of optical fiber sensors. This Special Issue aims to bring together original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of optical fiber sensing. The topics will include, but are not limited to:

- Physical, chemical, and biological optical fiber sensors;
- Interferometric, scattering, and polarimetric optical fiber sensors;
- Micro- and nanostructured optical fiber sensors;
- Distributed and multiplexed sensing and sensor networking;
- Environmental, geophysical, marine, security, defense, and industrial applications.

Guest Editor

Dr. Xiangge He

School of Earth and Space Sciences, Peking University, Beijing 100871, China

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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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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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Prof. Dr. Nelson Tansu

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

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