Special Issue

Emerging Trends in Fiber Optic Sensing

Message from the Guest Editors

Fiber optic sensors have become increasingly significant due to their unique advantages, such as high sensitivity and ability to operate in harsh environments. The rapid advancements in materials, fabrication techniques, and signal processing algorithms have expanded the capabilities of fiber optic sensors, enabling unprecedented precision and functionality. The Special Issue explores the latest advancements and innovative applications in fiber optic sensing technologies. Authors are invited to contribute original research on novel sensing mechanisms, advanced materials, and integrated systems. Topics of interest include, but are not limited to, distributed sensing, multiplexing techniques, micro- and nano-structured fibers, and lasing sensing. This Special Issue also encourages submissions that explore the practical implementation of these technologies in real-world scenarios, providing insights into their scalability and commercial viability. This special issue highlights the latest trends, addresses existing challenges, and inspires future directions in fiber optic sensing. We welcome original research articles that contribute to the advancement of the fiber sensing field.

Guest Editors

Dr. Haiyang Wang

State Key Laboratory of Dynamic Measurement Technology, North University of China, Taiyuan 030051, China

Dr. Guowen An

Science and Technology on Electronic Test and Measurement Laboratory, North University of China, Taiyuan 030051, China

Deadline for manuscript submissions

30 September 2025

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/235185

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

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

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.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).