Special Issue

Optical Fiber Sensors: Refractivity and Interferometric Applications

Message from the Guest Editors

The Special Issue: Optical Fiber Sensors: Refractivity and Interferometric Applications, aims to highlight recent advances and fundamental developments in the design, modeling, and deployment of optical fiber sensors that rely on refractive index variations or interference-based mechanisms. Contributions may span innovations in sensor architectures, signal processing, novel materials, and emerging application areas where high-precision sensing is essential.

Topics of interest include, but are not limited to, the following:

- Interferometric fiber-optic sensors.
- Refractive index sensing using fiber Bragg gratings, long-period gratings, or evanescent wave sensors.
- Fiber-optic biosensors and chemical sensors.
- Resonator- and cavity-based fiber sensing systems.
- Optical coherence and phase-sensitive measurement techniques.
- Applications in structural health monitoring, biomedicine, environmental sensing, and industrial diagnostics.
- Hybrid systems integrating interferometric sensing with other modalities.
- Advances in demodulation and signal interpretation for interferometric data.

We look forward to receiving your valuable contributions.

Guest Editors

Dr. Qirui Wang

Dr. Liye Li

Dr. Weimin Lyu

Deadline for manuscript submissions

31 March 2026

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/244149

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).