Special Issue

Integrated Optics Temperature Sensors Based on Guided Wave and Photonics Structures

Message from the Guest Editor

We welcome research and review papers, both theoretical and experimental, concerning the design, manufacture, and testing of integrated optics and photonic sensors for temperature measurements. This Special Issue will cover the following, but is not limited to this list:

- Temperature sensors using photonic integrated circuits;
- Temperature sensors using resonant cavities;
- Micro- and nano-structured planar photonic structures;
- Functionalization of photonic structures;
- Metamaterials and metasurfaces for applications in temperature measurements;
- Fiber-optic-based temperature sensors.

We welcome manuscripts describing novel operation principles, structures, and materials for such sensors. The manuscripts on analytical and numerical optimization of their structures and topologies are also welcome. We believe that your valuable input will allow further advancement in this interesting and exciting research field.

Guest Editor

Dr. Cuma Tyszkiewicz
Department of Optoelectronics, Silesian University of Technology, 44-100 Gliwice, Poland

Deadline for manuscript submissions

15 December 2025

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/219422

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).