# **Special Issue**

## Integrated Waveguide-Based Photonic Devices

### Message from the Guest Editors

This Special Issue focuses on the state-of-the-art achievements in integrated waveguide-based photonic devices, with a broader aim to present novel material, design methodology, and fabrication techniques as well as cutting-edge applications. We welcome work in any form, including reviews, articles, letters, and viewpoints. Topics of interest include (but are not limited to):

- Low-loss waveguides and high-Q resonators;
- Passive wavelength/mode/power-controlling devices;
- Waveguide-grating couplers and optical I/Os;
- Waveguide-based modulators and detectors;
- On-chip light sources;
- Optoelectronic hybrid and heterogeneous integration;
- Novel waveguide materials and platforms;
- Optical phased arrays and chip-based LiDAR;
- Integrated photonic neural network and parallel computing;
- Integrated quantum photonic devices;
- Integrated mid-infrared photonic devices;
- Optofluidic devices and lab-on-chip systems.

### **Guest Editors**

#### Dr. Qiancheng Zhao

School of Microelectronics, Southern University of Science and Technology, Shenzhen, China

#### Dr. Li Shen

Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan, China

### Deadline for manuscript submissions

31 October 2025



# Photonics

an Open Access Journal by MDPI

Impact Factor 1.9 CiteScore 3.5



mdpi.com/si/128877

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

### mdpi.com/journal/

photonics





# Photonics

an Open Access Journal by MDPI

Impact Factor 1.9 CiteScore 3.5



photonics



## 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).