

# Special Issue

## Advances of Silicon Photonics

### Message from the Guest Editors

It is our great pleasure to invite you to contribute to the Special Issue of advances in silicon photonics. This Special Issue aims to put together a collection of papers covering the frontiers of silicon photonics and highlighting the most recent scientific discoveries and trends in this field. Topics include but not limited to the following: (1) Novel silicon photonics devices, including modulators, switches, subwavelength structure based devices, and hybrid integrated devices; (2) Application-specific silicon photonics circuits, including LIDAR, optical information processing, and optical coherent tomography (OCT); (3) Silicon photonics devices and circuits for optical computing, quantum optics, and microwave photonics; (4) Silicon photonics based sensors, including biological sensors, chemical sensors, and LoC systems.

---

### Guest Editors

Prof. Dr. Xiaochuan Xu

School of Integrated Circuits, Harbin Institute of Technology, Shenzhen 518055, China

Dr. Yi Zou

School of Information Science and Technology, ShanghaiTech University, Shanghai, China

---

### Deadline for manuscript submissions

closed (30 April 2022)



## Photonics

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 3.5



[mdpi.com/si/81617](https://mdpi.com/si/81617)

*Photonics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[photonics@mdpi.com](mailto:photonics@mdpi.com)

[mdpi.com/journal/  
photonics](https://mdpi.com/journal/photonics)





# Photonics

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 3.5



[mdpi.com/journal/  
photonics](https://mdpi.com/journal/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 15 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).