# Special Issue

# **Emerging Terahertz Devices** and Applications

## Message from the Guest Editors

This Special Issue invites the submission of innovative research that covers recent advances in emerging terahertz devices and applications. Terahertz (THz) technology operates in the electromagnetic spectrum between microwaves and infrared, typically in the frequency range between 0.1 and 10 THz (wavelengths) from 3 mm to 30 µm). This region, often called the "THz gap", has unique properties that can facilitate novel applications in imaging, sensing, communications, and biomedical diagnostics. This Special Issue aims to highlight recent advances in terahertz devices and their multiple applications. We will consider academic and review papers that cover, but are not limited to, the following topics: (1) THz sources (2) THz detectors (3) THz modulators and components (4) THz applications such as: Security and non-destructive testing; Biomedical imaging and diagnostics; Wireless communications (6G and beyond); Astronomy and space science; Material science.

## **Guest Editors**

Prof. Dr. Lin Chen

School of Optical-Electrical and Computer Engineering, University of Shanghai for Science and Technology, Shanghai, China

Prof. Dr. Bo Fang

College of Metrology & Measurement Engineering, China Jiliang University, Hangzhou, China

#### Deadline for manuscript submissions

30 April 2026



## **Photonics**

an Open Access Journal by MDPI

Impact Factor 1.9 CiteScore 3.5



mdpi.com/si/247048

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



## 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 peerreviewed 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).

