

## Special Issue

# Terahertz (THz) Science in Advanced Materials, Devices and Systems

### Message from the Guest Editors

This Special Issue invites manuscripts that document the recent advances in “Terahertz Science in Advanced Materials, Devices and Systems”. Terahertz science and technology, defined as the frequency range of 0.3–30 THz, has attracted a great deal of interest owing to its potential applications. Terahertz waves bridge electronics and photonics, as well as classical and quantum physics, located in an undeveloped research area. We will consider theoretical, numerical, and experimental papers that cover, but are not limited to, these topics: (1) Advances in THz sources, detectors, and components; (2) Advanced functional materials for THz devices; (3) Ultrafast carrier dynamics and THz nonlinear science, and new quantum physics in advanced materials; (4) Progress in THz systems for novel applications such as: industrial inspection, and non-destructive evaluation, defense and security, imaging and spectroscopy for bio/medical diagnostics, information processing and computing, electronics/ information/ broadband communications.

### Guest Editors

Prof. Dr. Masayoshi Tonouchi

Institute of Laser Engineering, Osaka University, Osaka 565-0871, Japan

Prof. Dr. Toshihiko Kiwa

Graduate School of Interdisciplinary Science and Engineering in Health Systems, Okayama University, 3-1-1 Tsushimanaka, Kitaku, Okayama 700-8530, Japan

### Deadline for manuscript submissions

closed (31 July 2022)



## Photonics

an Open Access Journal  
by MDPI

Impact Factor 2.1  
CiteScore 3.5



[mdpi.com/si/96523](https://mdpi.com/si/96523)

*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 2.1  
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:

JCR - Q2 (Optics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 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 2024).