# 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

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### Deadline for manuscript submissions

30 April 2026

*Photonics*

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## 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

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