# Special Issue

# Novel Developments in Optoelectronic Materials and Devices

### Message from the Guest Editor

This Special Issue aims to highlight cutting-edge research and interdisciplinary efforts shaping the future of optoelectronics, with a focus on novel materials, advanced device architectures, and emerging applications. Scope of the Issue: We invite original research articles, reviews, and perspectives addressing key challenges and opportunities in optoelectronics. Topics include, but are not limited to, the following: Next-generation materials: perovskites, 2D materials, organic semiconductors, and quantum dots. Advanced photonic and optoelectronic devices: LEDs, solar cells, photodetectors, lasers, and optical modulators.

Flexible, stretchable, and wearable optoelectronics for healthcare and IoT applications.

Integration of optoelectronic systems with Al-driven technologies and neuromorphic computing. Novel characterization techniques and theoretical modeling of optoelectronic processes. Sustainable fabrication methods and recycling strategies for eco-friendly devices.

Metamaterials and metasurfaces, and the related optoelectronic materials and devices.

### **Guest Editor**

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### Deadline for manuscript submissions

30 September 2025



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## 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

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