

Special Issue

Advancements in Wireless Optical Communication: Integrating Visible Light and Beyond

Message from the Guest Editors

In recent years, significant progress has been achieved in various key technologies in the field of visible light communications. From an application perspective, visible light communication technology is considered one of the key technologies of 6G. It is a vital technology in the field of underwater short-range and high-speed communication and has multiple advantages in positioning. This Special Issue invites manuscripts that introduce recent advancements in wireless optical communications. All theoretical, numerical, and experimental papers are accepted. Topics can include, but are not limited to, the following:

- Breakthroughs in light sources and detectors; Pre-emphasis and post-equalization technologies;
- Visible light communication technologies;
- Underwater optical wireless communications;
- Li-Fi;
- Laser-based wireless optical communications;
- Visible light positioning;
- Modulation and demodulation technologies;
- Photon counting detection;
- Experiment demonstrations;
- Optical reconfigurable intelligent surface (ORIS);
- Vehicle-to-vehicle visible light communications;
- OWC between drones.

Guest Editors

Prof. Dr. Minglun Zhang

State Key Laboratory of Information Photonics and Optical Communications, Beijing University of Posts and Telecommunications, School of Electronic Engineering, Beijing University of Posts and Telecommunications, Beijing, China

Dr. Hongyu Zhou

State Key Laboratory of Information Photonics and Optical Communications, Beijing University of Posts and Telecommunications (BUPT), Beijing, China

Deadline for manuscript submissions

closed (30 August 2025)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/202846

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).