

Special Issue

Advances in Optical Wireless Technologies and Applications

Message from the Guest Editors

Fascinating opportunities are opening for optical wireless technologies due to the ever-increasing demand for high-speed data transmission and radio frequency spectrum congestion. Optical wireless technologies could be critical enablers for flexible, high-capacity communication systems/networks, especially in 5G/6G, aerospace, and IoT applications. Additionally, optical wireless technologies are applicable for quantum key distribution (QKD), wireless power transfer, light detection and ranging (LiDAR), and tactical military operation.

- Optical wireless communications (OWC)
- Free space optical communications
- Visible light communications
- Ultraviolet communications
- Optical camera communications
- Channel modeling for optical wireless systems
- Modulation / coding / multiple access techniques for OWC systems
- Cross-layer designs for OWC networks
- Pointing, acquisition, and tracking for optical wireless systems
- Optical wireless fronthaul/backhaul networks for 5G/6G
- Unmanned aerial vehicle (UAV) / underwater / vehicular OWC systems and networks
- Hybrid RF/OWC systems and networks
- Optical indoor positioning systems
- Optical wireless power transfer

Guest Editors

Dr. Vuong Mai
Dr. Abdelmoula Bekkali
Dr. Trong-Hop Do

Deadline for manuscript submissions

closed (31 January 2022)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/86032

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 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).