

Special Issue

Optical Networks and Their Applications

Message from the Guest Editor

We invite submissions to the Special Issue “*Optical Networks and Their Applications*” in *Photonics*. As optical networking technologies continue to evolve, they are enabling new paradigms in speed, scalability, security, and intelligence across future communication infrastructures. This Special Issue will highlight recent research, technological advances, and experimental findings across the full stack of optical communication, ranging from physical-layer transmission to AI-driven orchestration. Original research articles, comprehensive reviews, and visionary perspectives that address challenges and opportunities in the evolving landscape of optical networking. Contributions that demonstrate experimental validation, system-level integration, or interdisciplinary innovation, such as combining photonic devices with AI-driven control, software-defined networking, and hybrid optical wireless architectures are particularly encouraged. We look forward to receiving your contributions.

Guest Editor

Dr. Muhammad Umar Masood

Department of Electronics and Telecommunications, Polytechnic University of Turin, 10129 Turin, Italy

Deadline for manuscript submissions

30 April 2026



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/250854

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).