

Special Issue

Optical Technologies for Data Center Networks

Message from the Guest Editors

In this issue, we would like to cover photonic-based technologies targeting for datacenter applications and want to invite researchers to submit their research on the following topics:

- Silicon photonics for datacenter interconnects;
- Co-packaged optics: architecture design;
- Optical interconnects and signal processing for data centers;
- Optical switches;
- Transceivers designed in silicon photonic foundry;
- Monolithically integrated light sources and optical amplifiers: including, but not limited to, vertical cavity surface emitting lasers (VCSELs), direct modulation lasers (DMLs), mode locked lasers (MLLs), semiconductor optical amplifiers (SOAs), tunable single wavelength lasers, laser arrays for WDM application, etc.;
- High-speed modulators;
- Photonics-enabled network optimization for datacenter and HPC systems.

Guest Editors

Dr. Akhilesh S. P. Khope

Microsoft Corporation, Redmond, Washington, DC 98052, USA

Dr. Yu-Han Hung

Department of Electrical Engineering, Columbia University in the City of New York, New York, NY 10027, USA

Dr. Songtao Liu

AyarLabs, 3351 Olcott St, Santa Clara, CA 95054, USA

Deadline for manuscript submissions

closed (31 August 2021)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/71584

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, CAPus / 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).