Special Issue

Modern Advances in Optical, Millimeter and Submillimeter Astronomy

Message from the Guest Editors

For multi-band astronomical observations, especially in optical bands, atmospheric optical turbulence can affect the imaging quality and resolution of ground-based telescopes. With the development of astronomical high-resolution methods and techniques, especially adaptive optics which can correct the effect of atmospheric turbulence in real time, the image quality and resolution of telescopes are greatly improved. This Special Issue aims at presenting the latest results in optical, millimeter and submillimeter astronomy. In particular, issues and results of astro-climatic studies are discussed as applied to projects of large optical and millimeter telescopes. We are excited to invite researchers to submit their contributions to this Special Issue. Relevant topics include but are not limited to the following:

- Atmospheric optics;
- Optical turbulence;
- Influence of solar activity;
- Millimeter astronomy;
- Astro-climate;
- Adaptive optics;
- Laser communication;
- Optical neural network.

Guest Editors

Dr. Xuan Qian

Dr. Artem Shikhovtsev

Dr. Yongqiang Yao

Dr. Pavel G. Kovadlo

Deadline for manuscript submissions

closed (20 April 2025)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/211486

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

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).