

## Special Issue

# Various Applications of Methods and Elements of Adaptive Optics

### Message from the Guest Editor

Advances in the field of adaptive optics have produced an expanding toolkit for a growing number of photonics applications, including laser beam propagation, signal processing, vision science, astronomy, and other areas. Innovation in laser adaptive optics is a key to solving various scientific and technological problems, from improving the performance of laser systems to enabling new applications. This Special Issue is focused on a wide range of topics, including but not limited to the following:

- Adaptive optic components and tools;
- Wavefront sensing;
- Control algorithms;
- Beam shaping and control;
- Imaging;
- Astronomy;
- Optical communications;
- Propagation through turbulent and turbid media.

---

### Guest Editor

Dr. Julia Sheldakova  
Institute of Geospheres Dynamics, Russian Academy of Sciences,  
119991 Moscow, Russia

---

### Deadline for manuscript submissions

closed (15 March 2022)



## Photonics

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 3.5



[mdpi.com/si/88793](https://mdpi.com/si/88793)

*Photonics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[photonics@mdpi.com](mailto: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).