

Special Issue

Ultrafast Optical Imaging

Message from the Guest Editor

Optical imaging is an indispensable tool in understanding our world and enabling technological advancement. However, conventional imaging systems have their imaging speeds limited by the frame rate of the semiconductor sensors. In recent years, we have seen a remarkable boom in the development of ultrafast optical imaging techniques, from basic hardware components and algorithm innovation to novel system-level designs. These techniques find exciting applications in a vast range of fields, from physics, material science, and life science to an industrial deployment. In addition, people are constantly pushing the boundaries of ultrafast imaging, including a higher imaging speed, new functionalities, smaller systems, and smarter algorithms. This Special Issue aims to cover recent progress in ultrafast optical imaging technology. We encourage submission of original research articles that develop new methods, systems, and algorithms in ultrafast optical imaging and apply ultrafast optical imaging to observe and study fast dynamics in different fields.

Guest Editor

Dr. Peng Wang
ByteDance PICO-Lab, 1199 Coleman Ave, San Jose, CA 95110, USA

Deadline for manuscript submissions

closed (15 October 2023)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/163814

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 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).