

Special Issue

Advanced Optical Microscopy and Imaging Technology

Message from the Guest Editors

The area of optical microscopy and imaging technology is ever-evolving to extend the ability of researchers to elucidate intricate biological structures and functions. This Special Issue, entitled “Advanced Optical Microscopy and Imaging Technology”, aims to compile significant research and review articles on a wide range of optical microscopy technologies and imaging applications that reflect the current development and future directions of the field. We are pleased to invite you to submit your manuscripts to this Special Issue. Topics include, but are not limited to, the following:

- Advances in super-resolution microscopy;
- Developments in nonlinear optical microscopy;
- Technological advances and applications of light-sheet microscopy;
- Novel fluorescence labeling and sample preparation methods or applications;
- Applications of adaptive optics in optical microscopy aberration correction;
- Progress and developments in confocal microscopy, computational imaging, and phase contrast imaging;
- Deep learning-aided microscopy implementation technology;
- Developments in multimodal optical correlative imaging.

We look forward to receiving your contributions.

Guest Editors

Dr. Yang Li

School of Medicine, Yale University, 333 Cedar Street, New Haven, CT 06510, USA

Dr. Tong Ye

CLEMSON-MUSC Bioengineering Program, Clemson University, 68 President Street, Charleston, SC 29425, USA

Deadline for manuscript submissions

closed (15 November 2024)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/182402

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).