

Special Issue

Advanced Optical Imaging: Techniques and Applications

Message from the Guest Editors

Optical imaging has undergone revolutionary advancements in recent decades, driven by innovations in photonics, nanotechnology, and computational methods. These developments have transcended traditional resolution limits, enhanced imaging speed, and enabled unprecedented functional and molecular insights across biological, medical, and industrial domains.

This Special Issue of Photonics aims to consolidate cutting-edge research on next-generation optical imaging technologies and their transformative applications, fostering interdisciplinary dialogue between optics researchers, engineers, and end-users.

We invite original research articles and comprehensive reviews addressing (but not limited to) the following themes:

- Novel Imaging Techniques
- Emerging Materials & Devices
- Translational Applications
- Data Processing & Quantitative Analysis

We look forward to receiving your valuable contributions.

Guest Editors

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Dr. Taiqiang Dai

Deadline for manuscript submissions

30 April 2026



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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

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