

## Special Issue

# Photonic Innovations in Optical Coherence Tomography

### Message from the Guest Editors

Optical coherence tomography (OCT) has revolutionized biomedical imaging since its inception. **We are pleased to invite you to contribute to this Special Issue focusing on the latest photonic innovations that are advancing OCT technology and applications.** In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Advanced light sources for OCT (swept-source lasers or supercontinuum sources);
- Photonic integrated circuits and silicon photonics for miniaturized OCT systems;
- Novel OCT modalities (polarization-sensitive OCT, OCT angiography, spectroscopic OCT, and visible light OCT);
- Adaptive optics and computational adaptive optics for aberration correction;
- Deep learning and AI-enhanced image reconstruction and analysis;
- Multi-modal imaging combining OCT with other photonic techniques;
- Functional extensions of OCT (elastography, thermography, and molecular imaging);
- High-speed OCT systems and real-time processing architectures;
- Novel contrast mechanisms and molecular-specific imaging;
- Clinical and industrial applications enabled by photonic innovations.

We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

31 March 2026



## Photonics

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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.

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### Editor-in-Chief

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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).