

Special Issue

New Insights in Optical Bioimaging

Message from the Guest Editor

Optical bioimaging has become a powerful tool for exploring biological systems at both microscopic and macroscopic levels. Recent advancements in imaging technologies and computational methods have enabled new insights into physiological processes, tissue architecture, and disease progression. This Special Issue invites original research on cutting-edge optical bioimaging techniques. We seek contributions on topics including, but not limited to:

- **Novel imaging systems and applications:** Development and use of advanced optical techniques such as super-resolution microscopy, multiphoton microscopy, and optical coherence imaging.
- **Numerical methods:** Computational algorithms for modeling light–tissue interactions, image reconstruction, and quantification.
- **Data-driven approaches:** Machine learning and deep learning methods for photon migration, image reconstruction, and analysis.
- **Spectroscopic imaging:** Techniques utilizing spectral information to study biological molecules.
- **Optical tomographic imaging:** Methods for reconstructing 2D/3D images of biological tissues.
- **Photoacoustic imaging:** Innovations in photoacoustic spectroscopic and tomographic imaging.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2025)



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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