Special Issue

Photonics for Biomedical Applications: Design and Integration of Optical Imaging Systems

Message from the Guest Editor

The special issue "Photonics for Biomedical Applications: Design and Integration of Optical Imaging Systems" focuses on the development and integration of advanced photonics technologies for biomedical imaging. It explores innovative optical imaging systems designed to enhance the diagnosis and treatment of various medical conditions. Topics covered include the design of optical components, system integration strategies, and high-end imaging modalities, such as Optical Coherence Tomography (OCT), fluorescence imaging, photoacoustic technique, and multiphoton microscopy. The issue also emphasizes the importance of improving resolution, imaging speed, and depth for clinical applications. These advancements aim to provide more accurate and real-time imaging solutions, thereby transforming how diseases are diagnosed, monitored, and treated. The issue serves as a platform for researchers and professionals to present their latest findings, share insights on optical imaging systems, and discuss future directions in the field of biomedical photonics.

Guest Editor

Dr. Cuixia Dai
College of Science, Shanghai Institute of Technology, Shanghai 201418, China

Deadline for manuscript submissions

closed (30 April 2025)

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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

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