

Special Issue

Advanced Photonic Technologies: From Light Sources and Nonlinear Optics to Sensing Applications

Message from the Guest Editors

Photonics technology, fundamental to the information age, is revolutionizing the future of scientific research and industrial innovation with unprecedented depth. From high-speed global communications and precision medical diagnostics to quantum computing and advanced manufacturing, cutting-edge photonic technologies are not only crucial for scientific and technological progress but also for addressing major global challenges in energy, environment, and health. This Special Issue aims to compile the latest groundbreaking research in this field, establishing a platform for exchanging ideas, from fundamental physical exploration to state-of-the-art technological applications. We invite researchers from across the world to contribute original research articles and comprehensive reviews that cover theoretical and materials-, device-, and systems-level applications. We hope that this Special Issue fosters interdisciplinary cross-fertilization and advances photonic technologies to new heights.

Guest Editors

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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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