

Special Issue

Intelligent Photonics: Advances and Application

Message from the Guest Editors

The integration of photonics into intelligent technology has given rise to a transformative area of research: intelligent photonics. By combining the parallelism, bandwidth, and efficiency of photonic systems with the adaptability and computational power of artificial intelligence (AI) and machine learning (ML), intelligent photonics is unlocking new frontiers across diverse fields. From revolutionizing optical communications and sensing to enabling neuromorphic computing and advanced imaging systems, this interdisciplinary field serves as a cornerstone for next-generation technologies. This Special Issue invites submissions that present original research and review articles focusing on cutting-edge advancements in intelligent photonics and its wide-ranging applications. Topics of interest include, but are not limited to, the following:

- intelligent photonics
- photonic information processing
- photonic chip
- photonic ai
- optical neural network

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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