Special Issue

Neuromorphic Photonics

Message from the Guest Editors

This Special Issue will focus on recent advances in integrated photonic neuromorphic systems, discussing current as well as future challenges and outlining the scientific in addition to technological advances needed to meet these challenges. We welcome a variety of meaningful and valuable manuscripts on neuromorphic photonics, including those related to materials, devices, and hardware architectures for implementing computing, neural sensing, and alternative neuromorphic paradigms. Submissions involving emerging unconventional technologies as candidate solutions for neuromorphic technologies will also be considered. Topics include, but are not limited to:

- neuromorphic engineering
- photonics
- artificial intelligence
- brain-inspired computing
- synaptic plasticity
- optical neural networks

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Deadline for manuscript submissions

closed (10 May 2025)



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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 peerreviewed 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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