

Special Issue

Advances in Photonic Quantum Information Processing: From Theory to Experiments

Message from the Guest Editor

The photonic quantum information processing technique has an important role in the intersection of quantum physics and classical optics. In recent years, significant advancements have been made in the field of photonic quantum information processing. This Special Issue is focused on recent advancements in a series of related domains. Photonics, the science and technology of generating, manipulating, and detecting light, has a pivotal role in the advancement of quantum information science. The unique properties of photons, such as their low interaction with the environment and high-speed transmission capabilities, make them ideal carriers of quantum information. This Special Issue brings together a collection of peer-reviewed articles that spans the theoretical foundations and experimental breakthroughs in photonic quantum information processing.

Contributions that delve into the interdisciplinary aspects of quantum optics and related technological applications are encouraged. This Special Issue welcomes fundamental theory research, advanced technologies, and innovative applications.

Guest Editor

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Deadline for manuscript submissions

31 March 2025



Photonics

an Open Access Journal
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Impact Factor 2.1
CiteScore 2.6



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Message from the Editor-in-Chief

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is
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the first half of 2024).