

Special Issue

Quantum Optics: Advances and Applications

Message from the Guest Editor

The United Nations has declared 2025 as the first “International Year of Quantum Science and Technology”, marking a new era for quantum technology. Quantum optics has evolved from theoretical foundations to practical applications, and quantum computing, with its exponentially growing power, has demonstrated the potential to far surpass traditional computers in handling certain complex problems. Quantum communication provides a theoretical guarantee for secure communication and has begun to be widely applied in practice. Additionally, quantum precision measurement technology, with ultra-high precision and sensitivity, offers technical support for fields such as environmental monitoring and geological exploration; gravitational wave interferometers are typically applied. This Special Issue, “Quantum Optics: Advances and Applications”, will focus on cutting-edge research in the interdisciplinary field of quantum optical science, covering both the exploration of fundamental principles and transformative technological breakthroughs. We welcome original research articles, comprehensive reviews, and case studies from researchers, academicians, and industry experts.

Guest Editor

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Deadline for manuscript submissions

10 April 2026



Photonics

an Open Access Journal
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Impact Factor 1.9
CiteScore 3.5



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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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