

Special Issue

Quantum Optics: Science and Applications

Message from the Guest Editors

Quantum optics is one of the most successful attempts to study physical phenomena using quantum mechanics. With the deepening understanding and profound manipulation of the quantum properties of light, quantum optics has penetrated into other physical fields such as condensed matter physics and atomic physics and has become a reliable and delicate research means to investigate physical principles. From quantum information, quantum computation, and quantum simulation to quantum precision measurement, quantum communication, quantum optics has also developed practical applications close to our lives. This Special Issue on “Quantum Optics” is attracting publications that report works roughly on these aspects:

- Fundamental theory progress on quantum optics and interaction between light and matter, and/or experimental demonstration.
- Quantum communication based on quantum properties of light;
- Investigation and simulation of physical phenomena by designing optomechanical system;
- Quantum metrology with quantum optical systems;
- Quantum precision measurement based on properties of quantum optics;
- Other applications of quantum optical principles.

Guest Editors

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Deadline for manuscript submissions

closed (10 November 2023)



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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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