

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

Editor-in-Chief

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Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec,
CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Optics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 14.8 days after
submission; acceptance to publication is undertaken in 2.6
days (median values for papers published in this journal in
the first half of 2024).