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Quantum Optics: Science and Applications

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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.



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