

Special Issue

Recent Advances in Quantum Optics

Message from the Guest Editor

The aim of this Special Issue is to highlight the recent topics of discussion in quantum optics. We hope to attract article contributions from all researchers and experts who are engaged in cutting-edge developments in the field of quantum optics. We encourage authors to submit either research or review articles in areas in, but not limited to, the list below:

- Quantum imaging;
- Quantum sensing and metrology;
- Optical lattices and photonic quantum simulation;
- Optical angular-momentum and extended spatial-mode photonics;
- Time/frequency quantum optics;
- Light-matter interaction and quantum optomechanics;
- Quantum nonlinear optics;
- Quantum coherence;
- Cavity quantum electrodynamics;
- Photonic solid-state devices.

We believe that this Special Issue will help to trigger new and exciting frontiers and applications that will subsequently evolve this important field in quantum physics to new scientific heights.

Guest Editor

Dr. Yong Siah Teo

Department of Physics and Astronomy, Seoul National University,
Seoul, Korea

Deadline for manuscript submissions

closed (31 December 2021)



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Quantum Reports
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
quantr@mdpi.com

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About the Journal

Message from the Editor-in-Chief

We get more and more evidence that quantum theory is the correct description of nature. It was born a century ago by explaining a few paradoxical results that could not be understood in the framework of classical physics. Today, quantum physics leads technological revolution in metrology, communication, computation, and the design of novel materials. Still it needs more solid foundations, and we need to develop a deeper understanding of how it can be used for new applications.

Quantum Reports is an online, open-access journal providing an advanced forum for clarifying foundations of quantum theory and developing its applications in all fields of physics and technology. *Quantum Reports* is inviting innovative and insightful contributions from the growing community of researchers of quantum science.

Editor-in-Chief

Prof. Dr. Lev Vaidman

Raymond and Beverly Sackler School of Physics and Astronomy, Tel Aviv University, Tel Aviv 69978, Israel

Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).