

Special Issue

Advances in Quantum Electro-Optics and Optomechanics

Message from the Guest Editors

This Special Issue welcomes original research and review articles focusing on advances in quantum electro-optics and optomechanics. It aims to showcase the latest theoretical progress and experimental breakthroughs, with focuses on light manipulation, quantum regulation and high-precision sensing. Scope topics include, but are not limited to:

- Cavity optomechanics and quantum light-matter coupling
- Quantum electro-optic modulation and coherent signal processing
- On-chip integrated optomechanical photonic devices
- Nonclassical light control via optomechanical systems
- High-sensitivity sensing based on electro-optics and optomechanics
- Microcavity photonics and quantum optical interfaces
- Theoretical modeling and experimental realization of hybrid quantum optomechanical systems

Keywords: Quantum Electro-Optics; Optomechanics; Light-Matter Interaction; Microcavity; Quantum Sensing; Integrated Photonics

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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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