

Special Issue

Nonlinear Optics and Quantum Optics: From Materials Symmetry to Applications

Message from the Guest Editors

Dear Colleague, Symmetry plays a fundamental role in shaping light-matter interactions, governing nonlinear responses, quantum correlations, and device functionalities. This Special Issue seeks contributions that bridge symmetry principles with cutting-edge advances in nonlinear and quantum optics. Topics include symmetry-driven material design; ultrafast and quantum light generation; wavefront control; and emerging applications in communication, sensing, and computing. Both theoretical and experimental works that reveal how symmetry enables novel photonic phenomena and practical technologies are welcome.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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