Special Issue

Symmetry in Advanced Optoelectronics and Nanophotonics

Message from the Guest Editors

The fields of optoelectronics and nanophotonics are revolutionizing our approach to understanding and harnessing light–matter interactions at the nanoscale, a research area which holds significant potential for advancing technologies in renewable energy, high-precision sensing, and information processing. Recent breakthroughs have demonstrated that symmetry principles play a critical role in defining the electronic and optical behaviors of nanostructured and quantum materials, making it possible to engineer materials with exceptional optical properties. Original research articles and comprehensive reviews covering a broad range of topics are welcomed, including but not limited to:

- Theoretical and experimental studies for the development of III-V/III-N, 2D materials.
- Theoretical and experimental approaches to III-V/III-N, 2D-based nanophotonic devices.
- Light–matter interactions in III-V/III-N, 2D nanostructured, and quantum materials and applications.
- Symmetry considerations in optoelectronics, including solar cell, and photodetector design.
- Photonic structures engineered through nanofabrication.
- Advances in optical sensors and photonic circuits.

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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