

Special Issue

Recent Advances in Topological Photonics: From Fundamentals to Materials Engineering

Message from the Guest Editor

Topological photonics has emerged as a rapidly developing research frontier at the intersection of optics, condensed matter physics, materials science, and device engineering. By introducing topological concepts into photonic systems, this field has opened new possibilities for robust light manipulation, disorder-immune transport, and novel functionalities in integrated photonic devices. We welcome original research articles and review papers that explore how topological concepts can be translated into innovative photonic materials and engineering solutions. Topics of interest include, but are not limited to:

- Fundamental theories and emerging concepts in topological photonics
- Topological phenomena in photonic crystals, metamaterials, and metasurfaces
- Non-Hermitian, nonlinear, and quantum topological photonic systems
- Topological light transport, lasing, and robust waveguiding
- Novel materials and material platforms for topological photonics
- Materials engineering, fabrication, and integration strategies for topological photonic devices
- On-chip and integrated topological photonic systems

Guest Editor

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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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