

# Special Issue

## Collective Effects in Light-Matter Interactions

### Message from the Guest Editors

This Special Issue aims at gathering the newest advances in the field of collective effects in light-matter interactions, including many-body modifications of the electrical susceptibility, light scattering by dense atomic samples and atomic arrays, light transport within topologically protected modes, etc. Researchers are invited to submit their contributions to this Special Issue, whose publication will attest to the vitality and importance of this research area.

- collective light-matter interaction
- collective light scattering
- many-body quantum systems
- anderson localization
- collective atomic spin squeezing
- topological edge modes
- superradiance
- subradiance

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### Guest Editors

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### Deadline for manuscript submissions

31 January 2026



## 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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### Editor-in-Chief

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