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Advances in Polaritons

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Message from the Guest Editors

Polaritons are light–matter hybrid quasiparticles. They can be: surface plasmon polaritons, phonon polaritons, exciton polaritons, Cooper-pair polaritons, and magnon polaritons.

They offer a practical approach toward nanoscale light trapping and manipulation. Beyond nano-optical technologies, images of polaritonic standing and traveling waves contain rich insights into quantum phenomena occurring in the host material supporting polaritons, and they provide an approach toward optics-based materials research. Alongside future advances in the understanding of the physics and interactions of polaritons, solutions to application challenges may be anticipated in areas such as loss compensation, nanoscale lasing, quantum optics, and nanomanipulation.

The aim of the current Special Issue is to cover promising, recent, and novel research trends in polaritons. Areas to be covered in this Special Issue may include, but are not limited to: theory; simulation; characterization; application.











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Message from the Editor-in-Chief

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