

Special Issue

Frontiers of Optomechanics of Nanocrystals

Message from the Guest Editors

The exploration of the materials world at micro- or nanoscale asks for significant manipulation technologies to control nanomaterials in precise and versatile manner. Optical manipulation is regarded as one of the most promising platform due to non-contact interaction, high accuracy, and flexibility in light management. Physically, optical manipulation arises from the optomechanic coupling during the light-matter interaction, which includes direct momentum transfer between photons and nanomaterials and multiple-field coupling to convert optical energy to mechanical energy. The response of nanocrystals to the light-generated force field provides opportunities to trap or actuate the nanocrystals for a variety of applications in functional photonic devices, biosensing and nanomedicine. We expect that this special issue will provide new guidance for the design of optomechanic nanosystems for future technical innovation and applications.

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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