

## Special Issue

# Liquid Crystals and Devices

### Message from the Guest Editors

Liquid crystal (LC), a natural state of matter between liquid and crystalline material, simultaneously exhibits the fluidity of liquid and the optical anisotropy of crystals. LC has attracted widespread attention due to its exceptional material properties, such as a controllable and reconfigurable molecule orientation, large birefringence and high transparency over a wide electromagnetic spectrum, various external field stimuli (e.g., electric/magnetic field, light irradiation, and heat), etc. A series of LC-structuring techniques, such as micro-rubbing, nanoimprinting, and photoalignment, have been developed to create novel functional devices, including planar optical components, structured light fields, all-optical interconnection and so on. As two of the most typical representatives in planar optics, LC and metasurfaces can be perfectly integrated to realize a variety of tunable and multifunctional optical components.

This Special Issue aims to provide a platform for research on liquid crystal optics and devices. Besides original research articles, we also encourage the submission of review papers on recent advances and future prospects or challenges in this field.

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### Guest Editors

Dr. Xin Xie

Dr. Fan Fan

Dr. Dongliang Tang

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### Deadline for manuscript submissions

closed (1 October 2024)



## Crystals

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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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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