Special Issue

Patterned-Liquid-Crystal for Novel Displays

Message from the Guest Editors

With the development of advanced liquid crystal materials and polarization holography methods, various kinds of patterned LC optical elements with high-grade quality have been demonstrated. Because of their characteristic polarization dependency and high diffraction efficiency, patterned-LC-based optical elements have been successfully integrated into optical systems to satisfy the increasing needs of next-generation display systems, such as near-eye displays for augmented/virtual/mixed reality and head-up displays for automobile and aviation. This Special Issue of *Crystals* serves to provide a platform for researchers to report results and findings in LC-based optical elements and systems, including numerical modeling methods, LC materials, fabrication procedures, patterning, optical properties, and their applications in emerging display systems.

Guest Editors

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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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