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Reviews in Liquid Crystals

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Message from the Collection Editors

The study of liquid crystals (LCs), i.e., soft matter encompassing optical birefringence, nonlocality, anisotropy, and all-optical (as well as electro-optic, magneto-optic, and thermo-optic) responses, has been the subject of extensive experimental and theoretical investigation. These studies encompass light beams in liquid crystals, with applications including imaging, modulation, signal processing, display architectures, lasers, sensors, etc. Liquid crystals are in the era of scientific renaissance, both fundamentally and technologically, and they have become a pervasive feature of everyday life. The exploration of these molecular materials is still a challenge since the rapid development of display technology demands new LC materials which possess as a wide range of properties as possible. The phase structures in these materials constitute challenging research problems. Liquid crystal display technology has integrated itself into many facets of our daily lives. They have been truly instrumental in the progression and development of electronic devices.

We invite scholars to submit review articles on the current trends and future perspectives of liquid crystal research.

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Topical Collection

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Message from the Editor-in-Chief

Welcome to *Crystal*, 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 *Crystal*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the crystal, where science merges with beauty and innovation.

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