



crystals



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Nematic Liquid Crystal

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Message from the Guest Editor

Dear Colleagues,

Nematic liquid crystals are the cornerstone of the liquid crystal display market, being used in twisted nematic, super-twist nematic, in-plane switching and vertically aligned devices, among others. There has always been a desire to improve the performance of the nematic liquid crystal to optimise its functionality and ensure it meets modern device requirements.

There has been a recent resurgence of interest in nematic liquid crystals with the emergence of novel phases with nematic order, and several of these have shown interesting electro-optical behaviour. These new phases include the nematic twist-bend phase and the splay nematic phase (ferroelectric nematic). This Special Issue celebrates these novel nematic phases and the pursuit of new and interesting behaviours that continue to keep the nematic phase at the forefront of leading-edge liquid crystal research.

Dr. Stephen J. Cowling
Guest Editor



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Special Issue



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Editor-in-Chief

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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.

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