Special Issue

Design, Synthesis and Characterization of Novel Ferro- and Antiferroelectric Liquid Crystals For Electro-Optical Applications

Message from the Guest Editors

Ferro- and antiferroelectric liquid crystals have developed important technical applications. Because the mesomorphic and physical properties vary with the structural moieties and their combinations, the strategies of synthesis affect the physical properties and consequently the uses of liquid crystals in various applications. Considering that minimal differences in the structures of compounds change their physical properties, a wide range of techniques to identify and characterise the liquid crystalline phases are required. Molecular simulations help to develop new products as well and accelerate liquid crystal research by theoretically characterizing mesogens and understanding the mesophase behavior. As the physical identification techniques are more advanced, new more ordered mesophases are likely to be discovered, which will lead to new applications. This Special Issue of Crystals is addressed to all research scientists. including experimental chemists, physicists, and physical chemists, to report their results and findings in the synthesis of liquid crystal systems and their potential applications in opto-electronic devices.

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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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