Special Issue

Nematic Liquid Crystals

Message from the Guest Editors

Nematic liquid crystals (NLCs) are a state of matter that exhibits both crystal and liquid properties. They can change shape as a liquid but still maintain a preferred molecular alignment, thereby showing long-range orientational and/or positional correlations. NLCs are composed of organic, rod-like, disk-like, or lath-like molecules which possess the optical and electrical properties of crystals under certain conditions. NLCs can also adopt chirality by adding chiral dopant. Additional advantages of NLCs come from their nature as soft materials—elastomers, sensitive to external stimuli, elasticity, viscosity, as well as the deformation ability of different architectures. The potential topics include, but are not limited to:

- Nanofabrication of nematic liquid crystal;
- Synthesis of liquid crystalline materials;
- Optical sensor of nematic liquid crystal;
- Nematic liquid crystal applied in biological materials;
- Advanced characterization of nematic liquid crystal;
- Liquid crystal elastomers;
- 3D printing of liquid crystalline materials.

Guest Editors

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Deadline for manuscript submissions

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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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