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Liquid Crystal Phases and Phase Transitions

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Deadline for manuscript submissions:
closed (11 January 2024)

Message from the Guest Editors

Liquid crystal is a low dimensional ordered fluid, and its molecular arrangement structure is not three-dimensional ordered, unlike crystal. Therefore, when it is affected by external fields such as electric fields, magnetic fields, temperature, and stress, its molecular orientation easily changes, and various characteristics based on the optical anisotropy of liquid crystal also change. Due to this characteristic, liquid crystal has been widely used in functional devices controlled by external fields. At the same time, different liquid crystal phases are being developed for new applications in different application scenarios: from the traditional nematic liquid crystal used for display materials, to the cholesteric liquid crystal used as anti-counterfeiting materials, to the current composite materials of different phase liquid crystals used for software robots, 5G antennas, intelligent anti-peeping films, etc.

The aim of this Special Issue is to provide a platform for researchers who are interested in liquid crystals and communicate their research progresses.

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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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