Special Issue

Impact of Molecular Symmetry and Asymmetry on the Collective Behavior of Liquid Crystals

Message from the Guest Editor

Molecular symmetry and asymmetry play a fundamental role in shaping the collective behavior of liquid crystals. These properties influence molecular alignment, self-organization, and the formation of distinct mesophases. Understanding how molecular structure drives macroscopic behavior is essential for modifying liquid crystalline properties in advanced applications. This topic explores the intricate relationship between molecular design and mesophase behavior, offering insights into the dynamic self-assembly and functional versatility of liquid crystals under different conditions.

Guest Editor

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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