Special Issue

Liquid Crystal Thin Films: Structures and Applications

Message from the Guest Editor

Soft materials, in particular liquid crystals, assemble and reconfigure in response to external constraints. They provide a model system for fundamental physics questions and the development of novel applications. Investigating the properties of liquid crystal films can lead to the development of new means to control the assembly of colloidal objects. A better understanding of how these films behave when confined under particular conditions will provide a fascinating tool for the creation of a new generation of advanced materials that may respond to external conditions. This issue highlights the properties of liquid crystal films and emphasizes their role in the development of novel applications. We are inviting submissions exploring the latest advances in studying the properties of liquid crystal films, including bulk and surface properties that can lead to potential applications in the future. In particular, we encourage the submission of papers investigating a broad range of liquid crystal mesophases. Reviews that succinctly analyze recent progress in the field will also be considered.

- confinement
- thin films
- interfaces
- directed assembly
- liquid crystal devices

Guest Editor

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Deadline for manuscript submissions

closed (20 September 2023)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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