

## Special Issue

# Advances in Functional Liquid Crystals

### Message from the Guest Editor

Functional liquid crystals are a fascinating and versatile class of materials with a broad range of applications in technology, medicine, and beyond. By harnessing their unique ability to combine fluidity with molecular organization and by functionalizing them to respond to specific stimuli, scientists and engineers are developing innovative solutions that capitalize on the special properties of these materials. Liquid crystals can be modified by introducing certain chemical groups into the liquid crystal's molecules or by blending them with other materials to achieve specific properties or functionalities. For instance, liquid crystals can be functionalized to respond to external stimuli such as electric or magnetic fields, light, pH changes, or mechanical stress. This makes them ideal for use in sensors, actuators, and smart materials that can change their behavior in response to environmental changes. In the Special Issue, we expect to receive contributions on most recent advances in the field, discussing not only innovative way to functionalize liquid crystals, but also innovative properties and applications of functionalized liquid crystals.

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### Guest Editor

Dr. Roberto Termine

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### Deadline for manuscript submissions

closed (30 March 2025)



## Applied Sciences

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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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### Editor-in-Chief

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