Special Issue

Liquid Crystals in Photonics II

Message from the Guest Editors

Liquid crystals are a state of matter exhibiting both fluid- and solid-like properties. They are unique in that they have both long-range order, meaning that the molecules are aligned in a specific orientation, and short-range disorder, indicating a random arrangement of the molecules within each orientation. A well-known application of liquid crystals is in liquid crystal displays (LCDs), where they are used to produce colors and images in electronic devices, such as smartphones, televisions, and computers. In an LCD, an electric current is applied to the liquid crystal molecules, causing them to align and produce a specific color or image. Several key topics in the field of liquid crystals in photonics include the following:

- Liquid crystal displays and their technological advancements;
- Liquid crystal-based optical communication systems;
- Liquid crystal-related AR/VR technologies;
- Liquid crystal sensors and their applications in different fields;
- Liquid crystal laser technology and its potential applications;
- Properties of liquid crystals and their impact on photonic applications;
- Theoretical and computational studies of liquid crystals in photonics.

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Deadline for manuscript submissions

20 September 2025

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mdpi.com/si/205706

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