



## Liquid Crystals in Photonics

Guest Editors:

**Dr. Xiayu Feng**

Liquid Crystal Institute, Kent  
State University, Kent, OH, USA

**Dr. Yannanqi Li**

The College of Optics and  
Photonics, University of Central  
Florida, Orlando, FL, USA

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### Message from the Guest Editors

Liquid crystals are a state of matter that exhibit both fluid- and solid-like properties. This combination of order and disorder leads to distinctive optical properties that make liquid crystals useful for a range of photonic applications.

Overall, liquid crystal photonics is a rapidly growing and evolving area of research, with novel applications and advancements continuously being developed. The unique optical properties of liquid crystals, combined with their versatility and ease of integration into various photonic systems, make them a valuable tool for researchers and engineers in the field of photonics.

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.

