Special Issue

Liquid Crystals in Photonics

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.

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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