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Frontiers in Optics of Liquid Crystals and Displays

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Message from the Guest Editors

After decades of extensive material research and development, as well as device innovations, liquid crystal (LC) has extended its applications to cover displays, spatial light modulators, adaptive lenses for sensors, etc. LC exhibits a certain degree of orientational order compared to an isotropic liquid while it is less rigid than a crystalline solid and can flow easily, which enables its unique properties including large physical anisotropies and high susceptibility to external stimuli. LC has widespread applications in flat panel displays, including TVs, projectors, monitors, smartphones, etc. In addition to traditional displays, lately, LC-based diffractive optics have also attracted increasing interest to address the major challenges in augmented reality (AR) and virtual reality (VR) displays due to its advantages of high efficiency, polarization selectivity, switching ability and ultrathin form factor. In the meantime, the phase-only modulation property and photo-patternable characteristic of liquid crystal enable novel photonic applications.



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Message from the Editor-in-Chief

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