Supplementary Information

Electro-optic response of Polymer-stabilized cholesteric liquid crystals with different polymer concentrations

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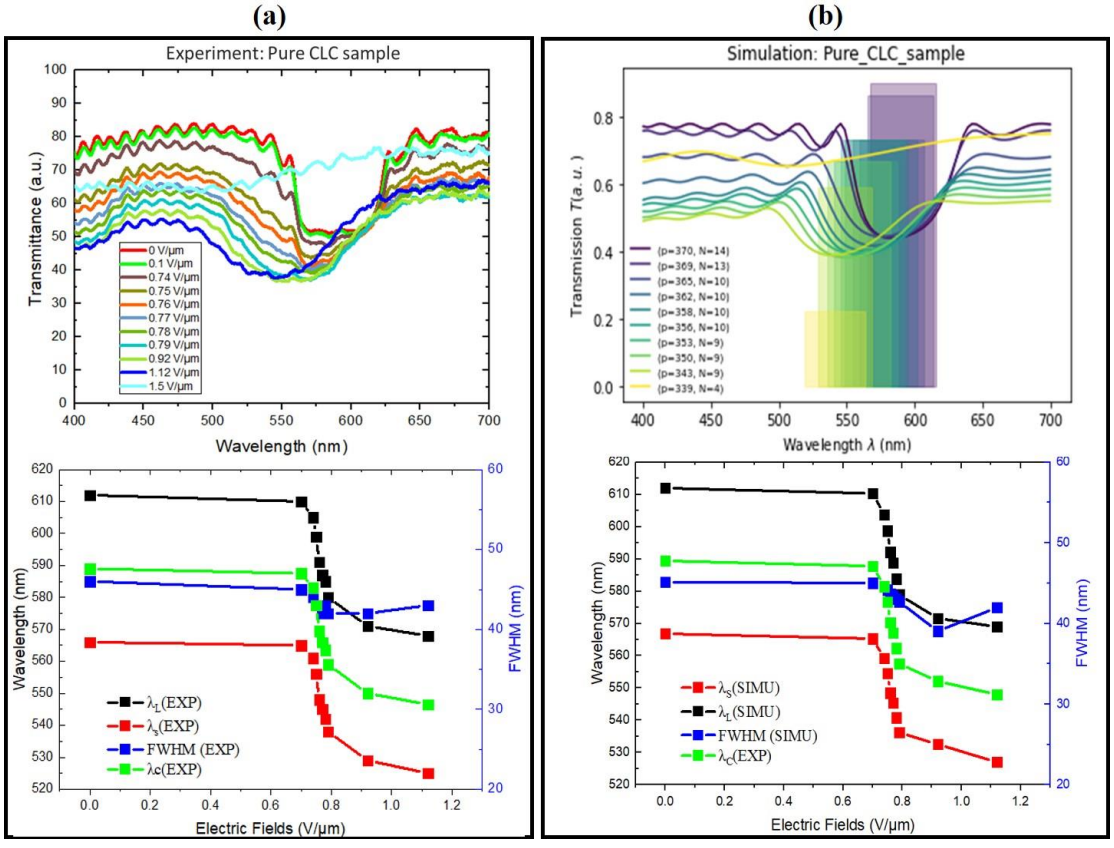


Figure S1: (a) experimental transmission spectra and (b) theoretical transmission spectra (measured with the Berreman matrix method) with the corresponding variation of the LWBE,

SWBE, central wavelength, and the width of the PBG. The fitting parameters were included in the theoretical transmission spectra (b).

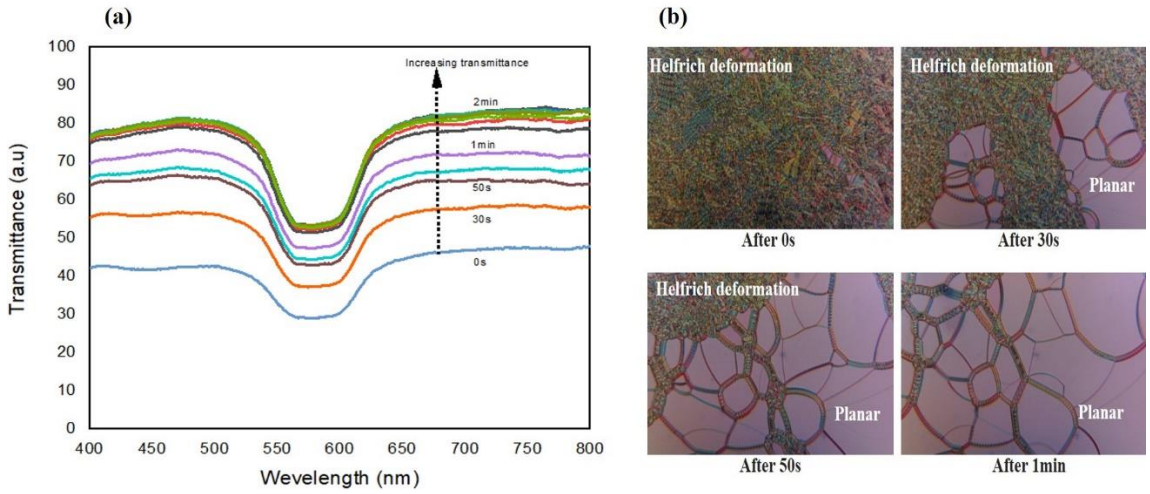


Figure S2: (a) Recovering of the PBG after removing the E-filed recorded for the sample S3 at various times, **(b)** POM micrograph after field off

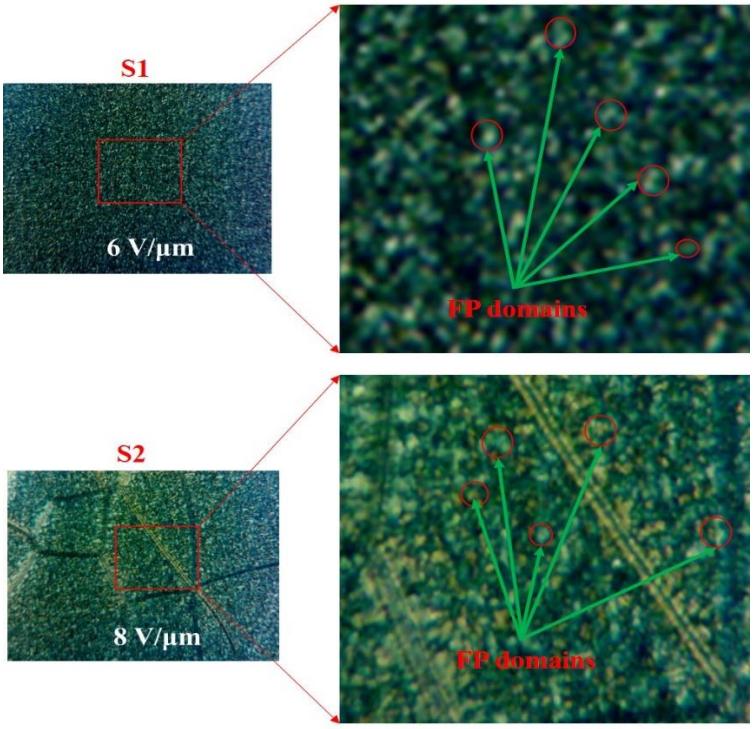


Figure S3: The POM micrograph of S1 (top) and S2 (bottom) when zoomed out reveals black and white dots, which indicate the formation of unstable FP domains. Some of these domains are highlighted by red circles.

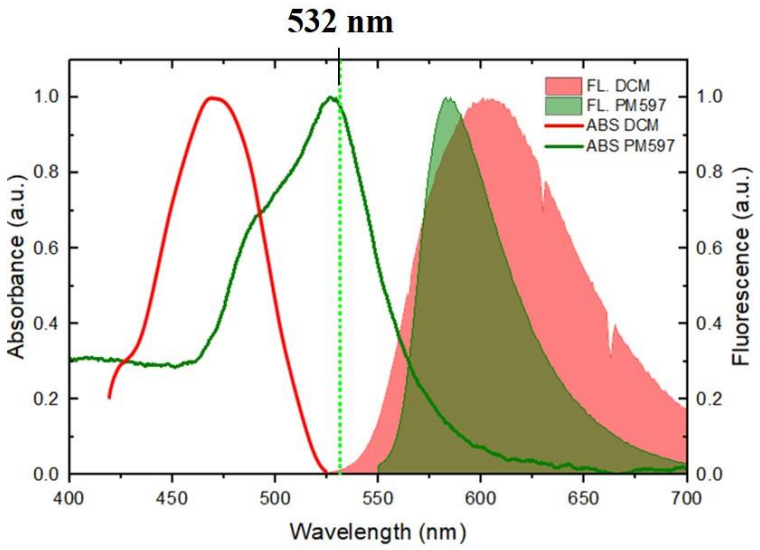


Figure S4: Normalized Fluorescence and absorbance spectra of PM597 and DCM in the Nematic liquid crystal host QYTN009.

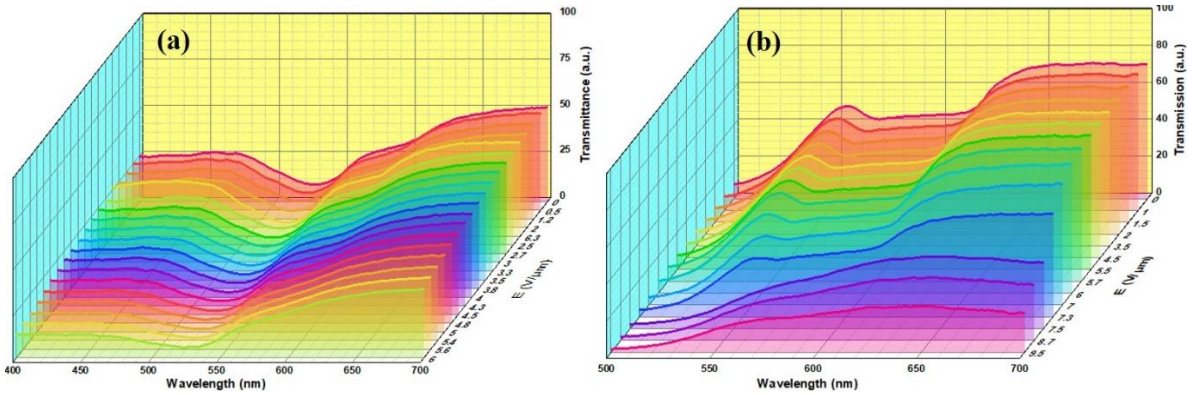


Figure S5: PBG of S_1 (a) and S_2 (b) under various E-filed amplitudes.