

1 Article

2 Effect of Liquid Crystalline Acrylates on the Electro-Optical 3 Properties and Micro-Structures of Polymer-Dispersed Liquid 4 Crystal Films

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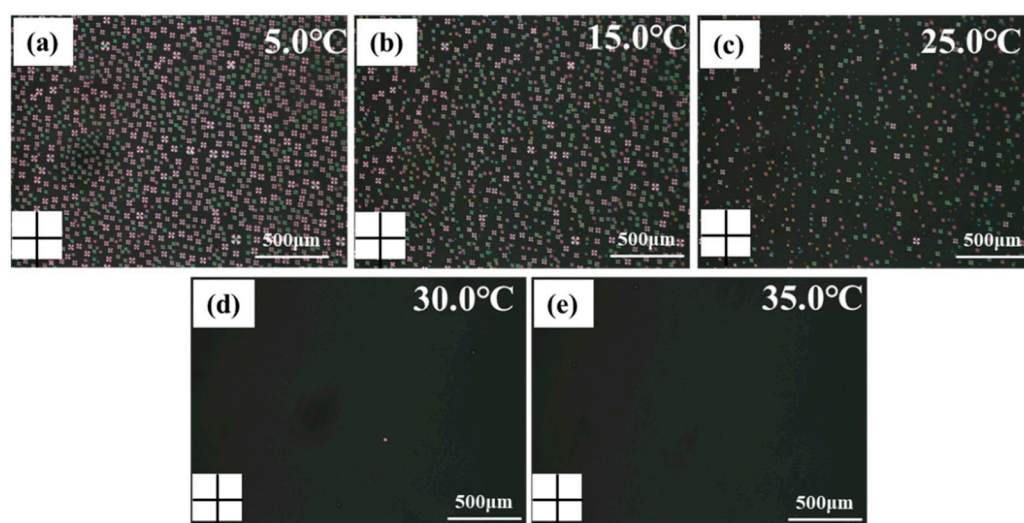
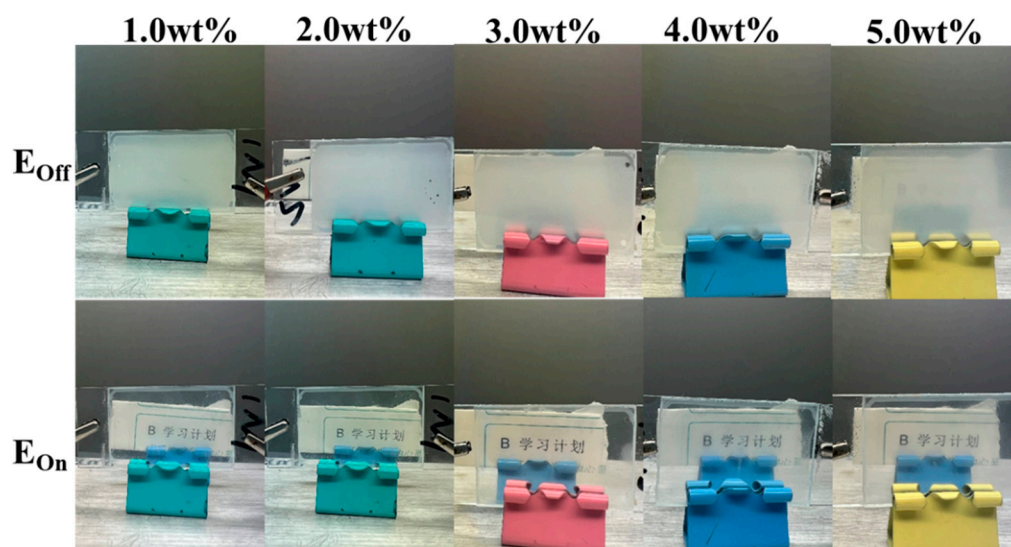


Figure S1. Polarized optical microscope images of the pre-polymerized NLCM and LC mixtures at the temperature of (a) 5.0 °C, (b) 15.0 °C, (c) 25.0 °C, (d) 30.0 °C, (e) 35.0 °C.

Table S1. Composition ratios of the LC 1717, THMA, BDDA and liquid crystalline monomers for PDLC devices.

Sample No.	Composition	Weight Ratio
N0-1	TMHA/BDDA/SLC1717	16.0/4.0/80.0
N1-1	TMHA/BDDA/CN/SLC1717	15.2/3.8/1.0/80.0
N2-1	TMHA/BDDA/CN/SLC1717	14.4/3.6/2.0/80.0
N3-1	TMHA/BDDA/CN/SLC1717	13.6/3.4/3.0/80.0
N4-1	TMHA/BDDA/CN/SLC1717	12.8/3.2/4.0/80.0
N5-1	TMHA/BDDA/CN/SLC1717	12.0/3.0/5.0/80.0
C1	TMHA/BDDA/OMe/SLC1717	15.2/3.8/1.0/80.0
C2	TMHA/BDDA/OMe/SLC1717	14.4/3.6/2.0/80.0
C3	TMHA/BDDA/OMe/SLC1717	13.6/3.4/3.0/80.0
C4	TMHA/BDDA/OMe/SLC1717	12.8/3.2/4.0/80.0
C5	TMHA/BDDA/OMe/SLC1717	12.0/3.0/5.0/80.0
A1	TMHA/BDDA/C6A/SLC1717	15.2/3.8/1.0/80.0
A2	TMHA/BDDA/C6A/SLC1717	14.4/3.6/2.0/80.0
A3	TMHA/BDDA/C6A/SLC1717	13.6/3.4/3.0/80.0
A4	TMHA/BDDA/C6A/SLC1717	12.8/3.2/4.0/80.0
A5	TMHA/BDDA/C6A/SLC1717	12.0/3.0/5.0/80.0

**Figure S2.** Images of PDLC devices doped with cyano LC monomers at off-state and on-state (applied voltage:100 V).

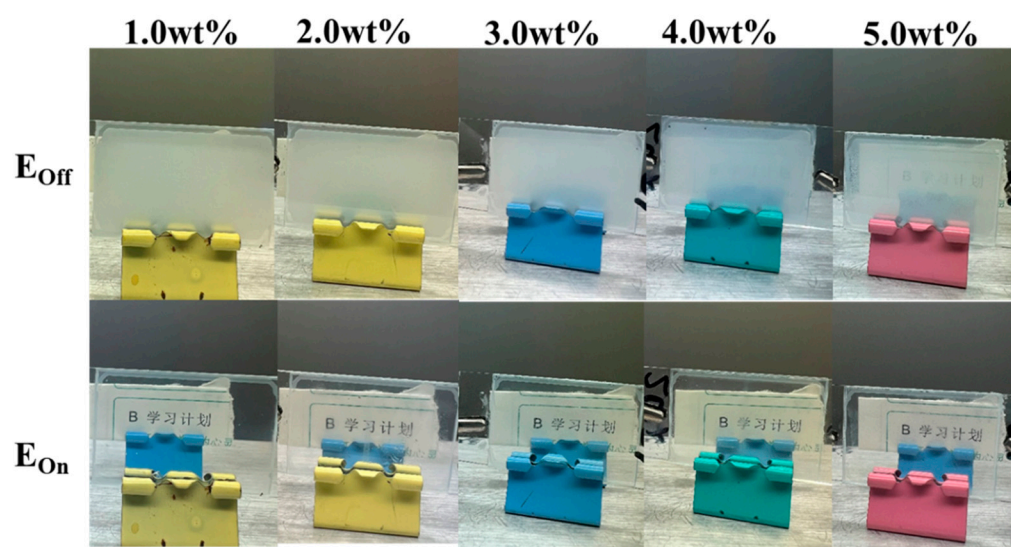


Figure S3. Images of PDLC devices doped with methoxyl LC monomers at off-state and on-state (applied voltage:100 V).

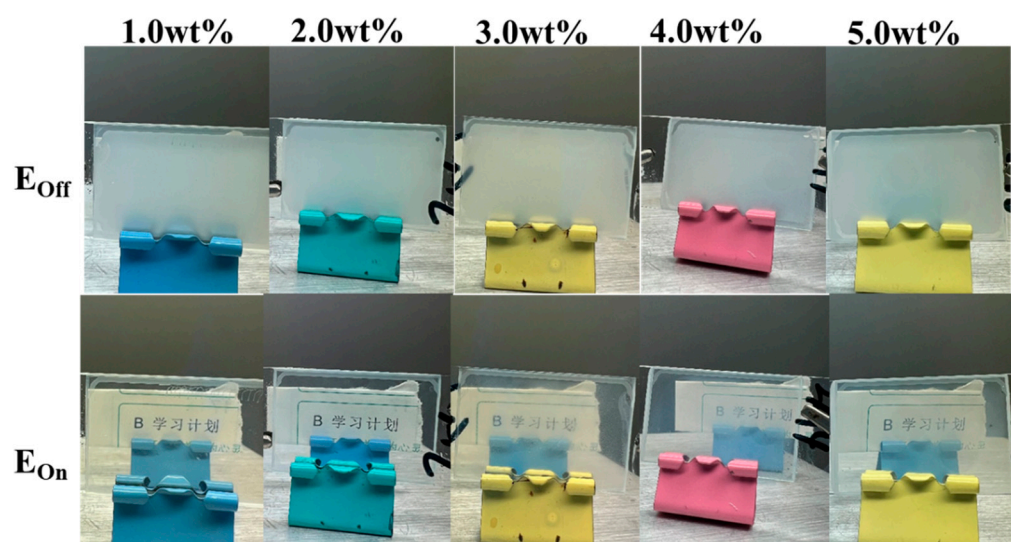


Figure S4. Images of PDLC devices doped with carboxyl LC monomers at off-state and on-state (applied voltage:100 V).