polymers

Supporting Information

Low Threshold Voltage and Programmable Patterned Polymer-Dispersed Liquid Crystal Smart Windows

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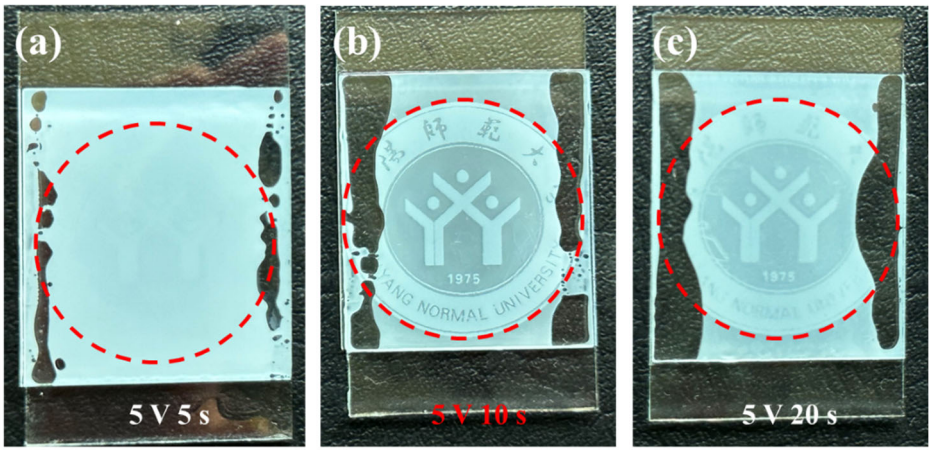


Figure S1. the school emblem patterned PDLCs fabricated with different electric field durations during the first polymerization step.

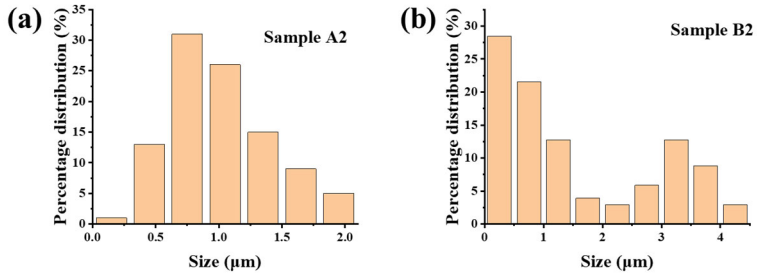


Figure S2. Percentage distribution of droplet sizes for samples A2 and B2.

Table S1. Comparison of Electro-Optical Properties of PDLC Devices Fabricated with Different Techniques.

Different PDLC technology	V_{th}	CR	OFF-state response time	Year [Ref. No.]
Inkjet printing	0.7 V/μm	4.4	77 ms	2022 [1]

 https://doi.org/10.3390/xxxxx

Photo-mask-assisted polymerization	0.9 V/μm	89.4	173.95 ms	2023 [2]
UV grayscale printing	0.8 V/μm	----	15.62 ms	2022 [3]
Co-doping strategy	0.77 V/μm	76.45	58.90 ms	2024 [4]
Electric field-assisted PIPS	0.23 V/μm	98	56 ms	this work

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