

Optical Anticounterfeiting Photonic Bilayer Film Based on Handedness of Solid-State Helicoidal Structure

Saddam Hussain,^a Sajjad Haider,^b Waheed Al-Masry^b and Soo-Young Park^{*a}

^a*School of Applied Chemical Engineering, Polymeric Nano Materials Laboratory, Kyungpook National University, Daegu, 41566, Republic of Korea. E-mail: psy@knu.ac.kr*

^b*Chemical Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia*

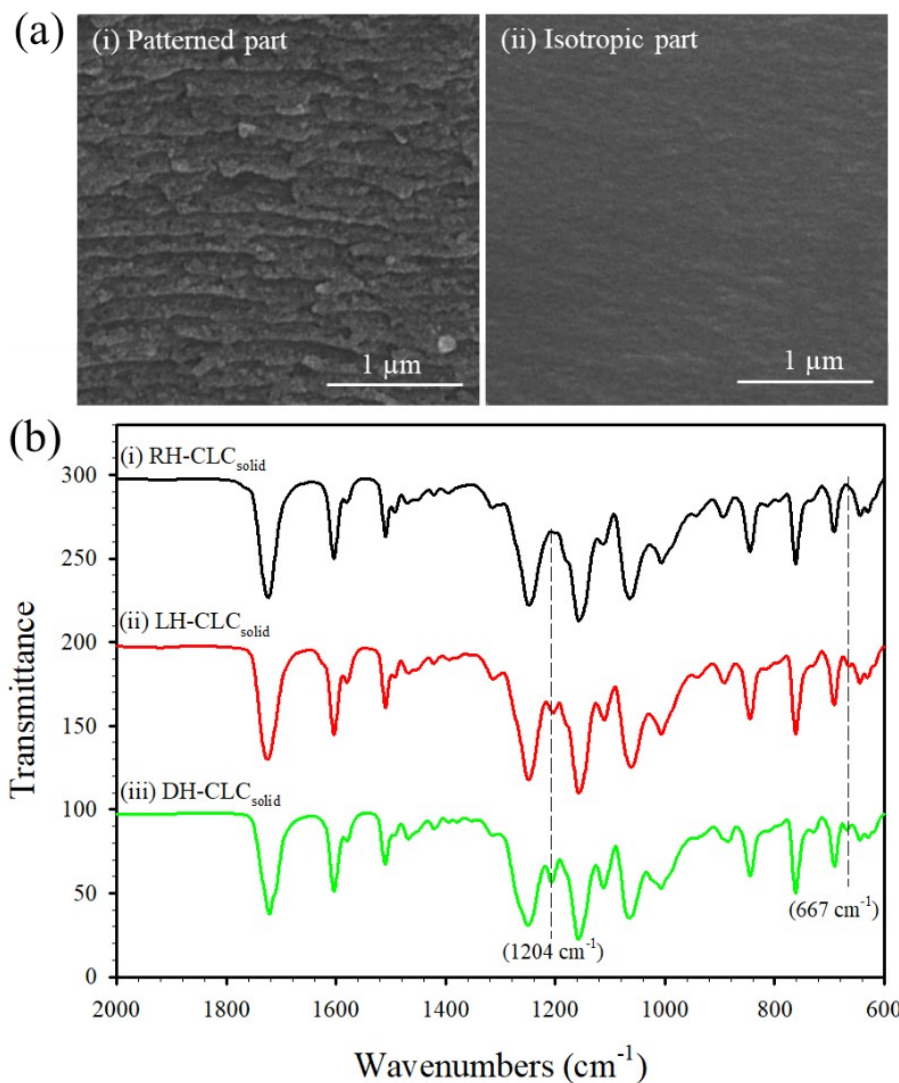


Fig. S1 (a) SEM images of the cross-sectional surfaces of the (i) patterned and (ii) isotropic parts of the bottom RH-CLC_{solid} film. (b) FTIR spectra of the (i) RH-, (ii) LH-, and (iii) DH-CLC_{solid} films. The scale bars in (a) are 1 μm.

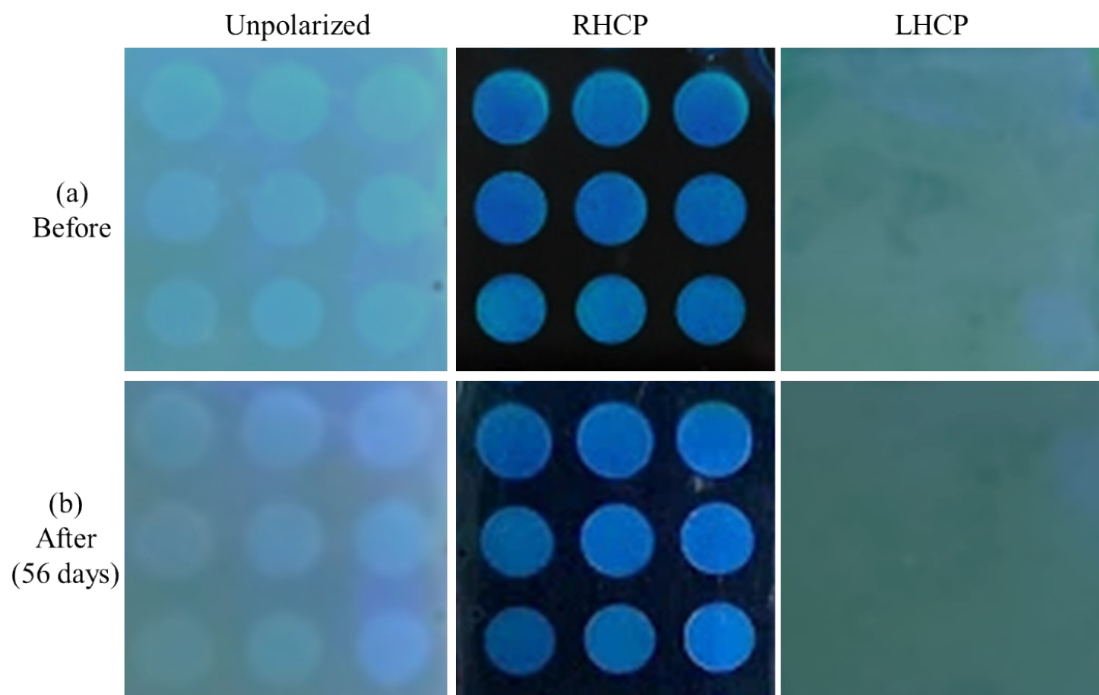


Fig. S2. Photographic images of the dot pattern of the DH-CLC_{solid} film (a) immediately and (b) 56 days after preparation under unpolarized, RHCP and LHCP lights.