

Supplementary Materials

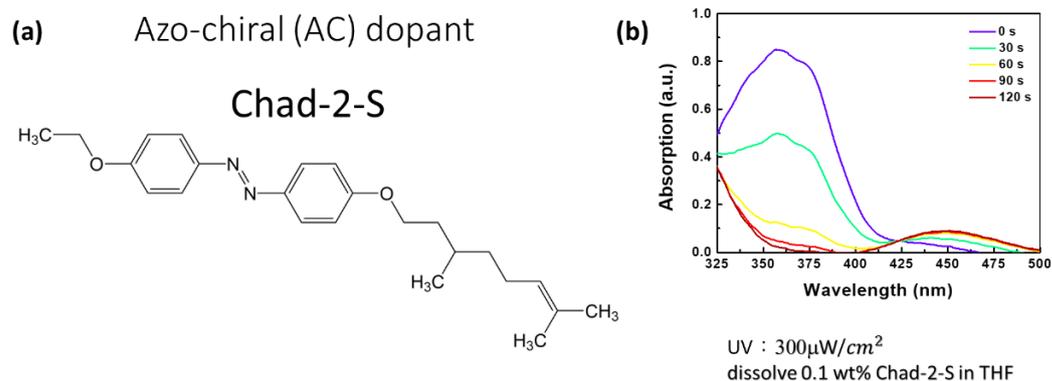


Figure S1. (a) Chemical structure of the chiral azobenzene Chad-2-S and (b) variation of its absorption spectrum (solved in THF with 0.1 wt%) measured during the UV irradiation of $300\mu\text{W}/\text{cm}^2$ for 2 minutes.

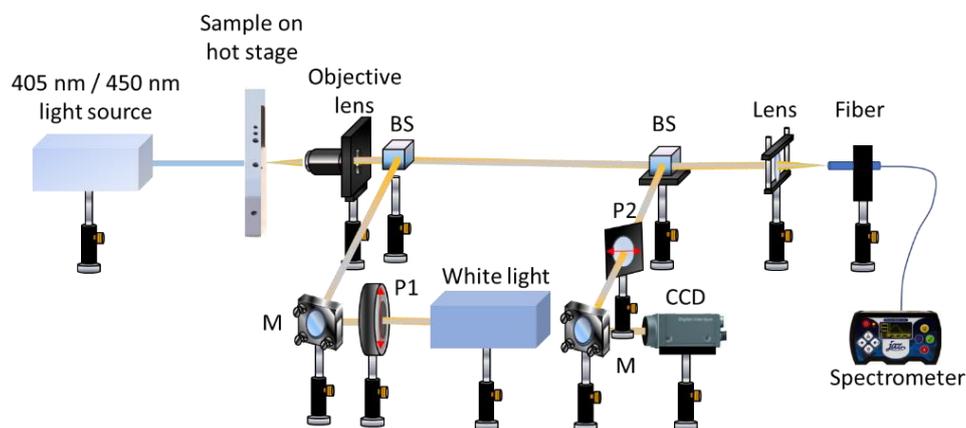


Figure S2. Experimental setup for optically controlling the CA-BPLC samples. P1 and P2 both are polarizers, which are set crossed. BS and M represent beam splitter and mirror, respectively.

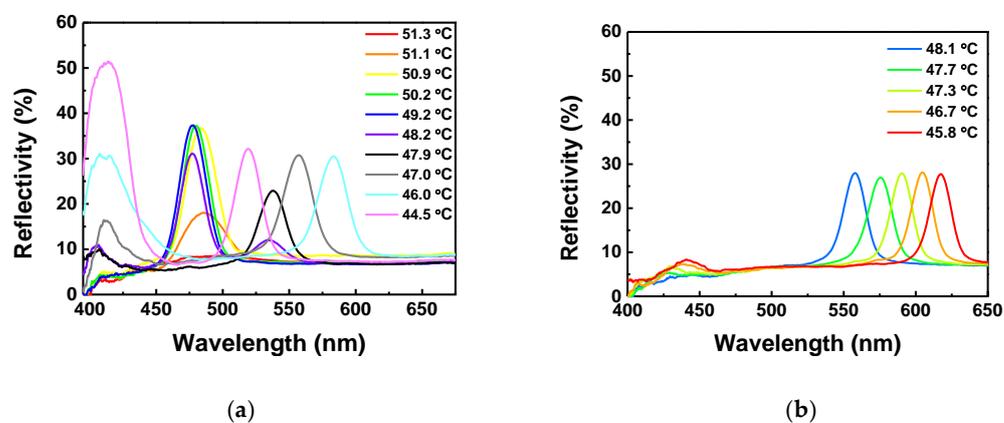


Figure S3. Reflection spectra of (a) aligned and (b) non-aligned CA-BPLC samples measured at various temperatures in cooling.

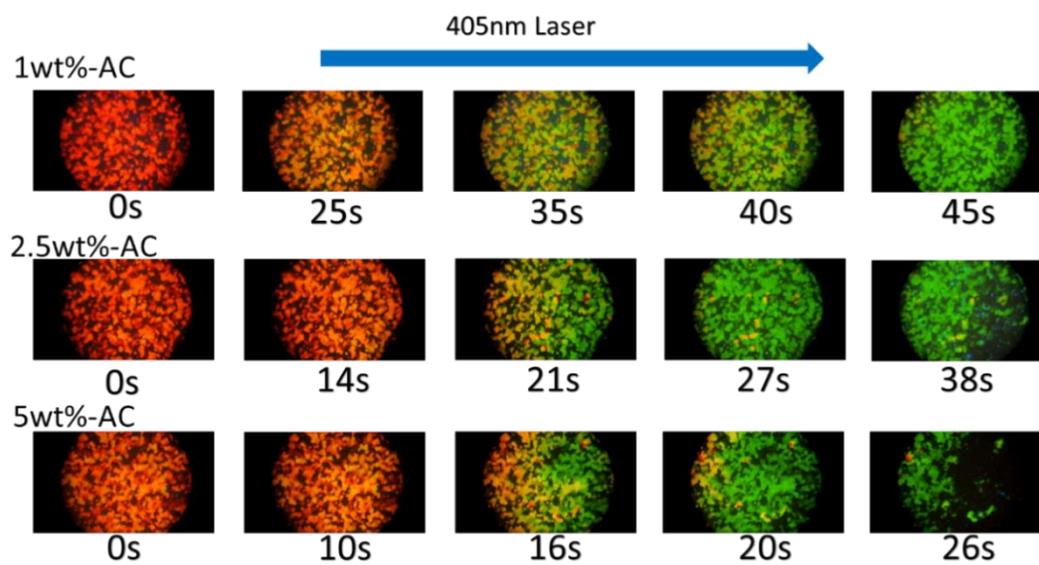


Figure S4. R-POM images of non-aligned CA-BPLC samples with various concentrations of CA dopants (1, 2.5, and 5 wt%) during the illumination of 405 nm laser.