

**Supporting Information to “Incorporation of Carbon Nanotubes
into lyotropic liquid crystal by phase separation in the presence of
hydrophilic polymer”**

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Figure S1. Dispersions of MWNTs in 3 mL of 0.1 wt % $C_{12}E_6$ aqueous solutions with increasing amount of added MWNTs. The weight percents of MWNTs in the preformed dispersions are 0.01 wt% (A), 0.03 wt% (B), 0.05 wt% (C), 0.06 wt% (D), 0.1 wt% (E). The images were taken more than two weeks after preparation.

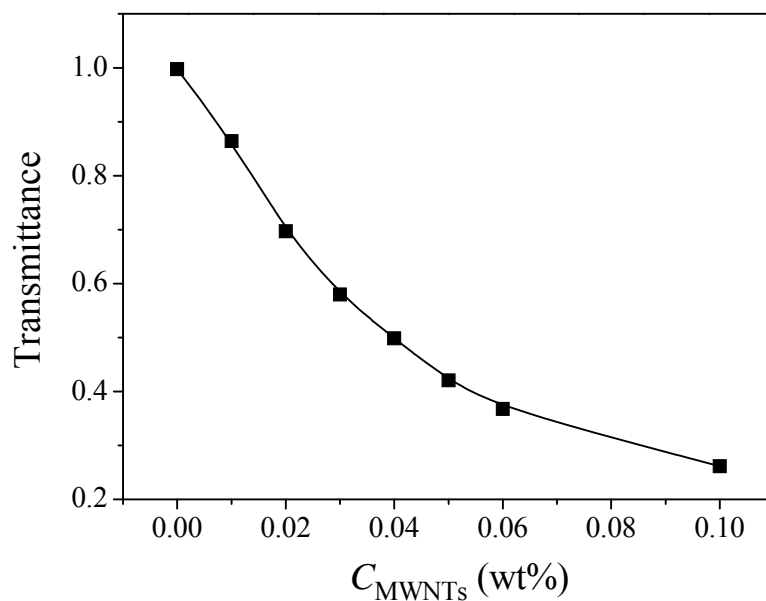


Figure S2. Transmittance of preformed MWNTs dispersion in 0.1 wt % C_{12}E_6 aqueous solution. Measured at a wavelength of 500 nm.

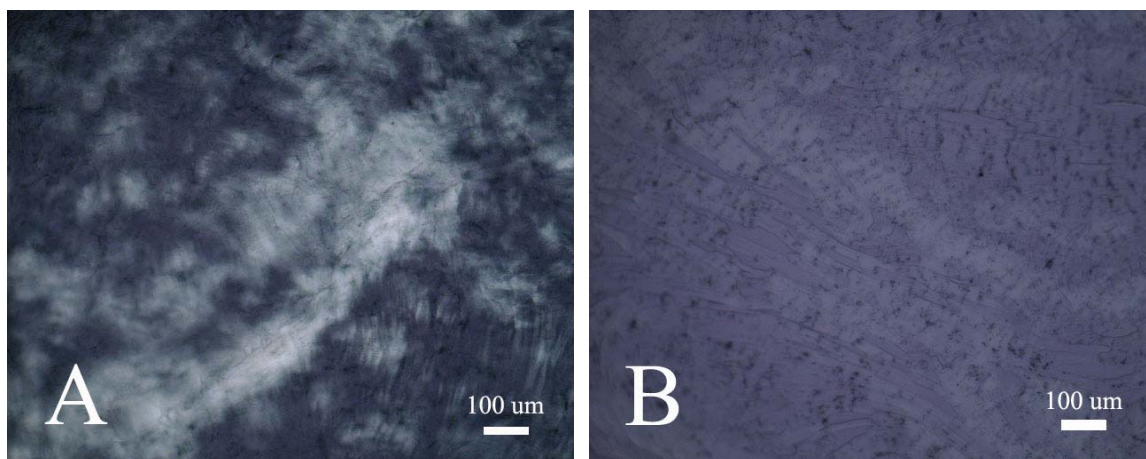


Figure S3. Textures of the upper C_{12}E_6 hexagonal phases with incorporated MWNTs. The weight fractions of C_{12}E_6 and PEG to water before phase separation are 10wt% and 20wt%, respectively. The concentrations of incorporated MWNTs in the upper LLC phases are 0.05wt% (A) and 0.25 wt % (B), respectively.