Electronic Supplementary Information for

Room Temperature Chiral Reorganization of Interfacial Assembly of Achiral Double-Decker Phthalocyanine

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Supplemental figures:



Fig. S1: Typical CD spectra of 10 layers LS films of Pc1 transferred at different surface pressure.



Fig. S2: UV-Vis spectra of Pc1 chloroform solution (green line) and 10 layers LS films of Pc1 transferred at different surface pressure.



Fig. S3: UV-Vis spectra of **Ce(Pc1)**₂ chloroform solution (green line) and 5 days aged 10 layers LS films of **Ce(Pc1)**₂ transferred at different surface pressure.



Fig. S4: CD spectra of 5 days aged 10 layers LS films of Ce(Pc1)₂ transferred at different surface pressure.



Fig. S5: The CD spectra of 8 different positions $(2mm \times 2mm)$ on as-prepared Ce(Pc1)₂ LS films (10 layers) transferred at 30 mN/m.



Fig. S6: The CD spectra of 8 different positions $(2mm \times 2mm)$ on 5 days aged Ce(Pc1)₂ LS films (10 layers) transferred at 30 mN/m.



Fig. S7: AFM images of the 1 layer LB films of Pc1 on the mica surface at a series of surface pressure.



Fig. S8: TEM images of 5 days aged Ce(Pc1)₂ assemblies transferred at 30 mN/m.



Fig. S9: AFM images of as-prepared $Ce(Pc1)_2$ 1 layer LB films (A) and $Ce(Pc1)_2$ 1 layer LB films after keeping at -20°C for 24 hours and then aging 12 hours at 80°C under vacuum (B).