

$\text{CdCl}_2 \cdot \text{H}_2\text{O}$ Nanorods Oriented Parallel on the Langmuir Film of (Phthalocyaninato) [Tetrakis(4-pyridyl)porphyrinato] Cerium Complex

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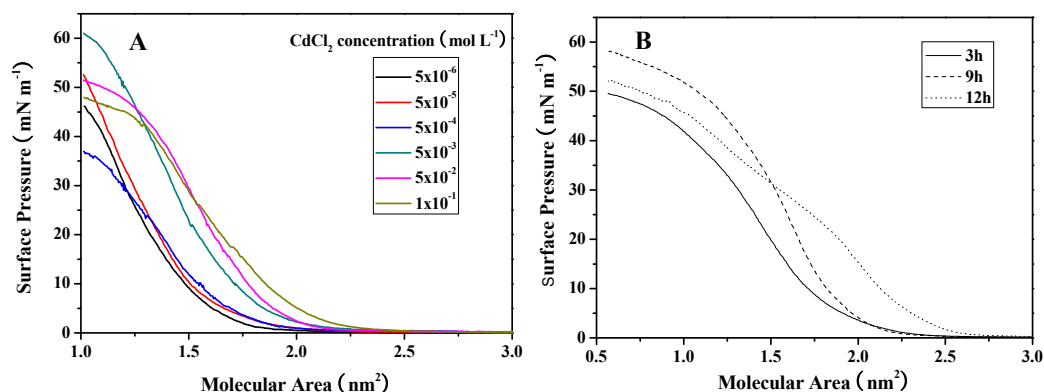


Figure S1. (A) π -A isotherms of the double-decker complex at the air- CdCl_2 subphase interface with different CdCl_2 concentration after evaporation of CHCl_3 for 15 min. (B) π -A isotherms of the double-decker complex at the air- CdCl_2 subphase interface (5×10^{-3} mol L⁻¹) at the different coordination reaction time.

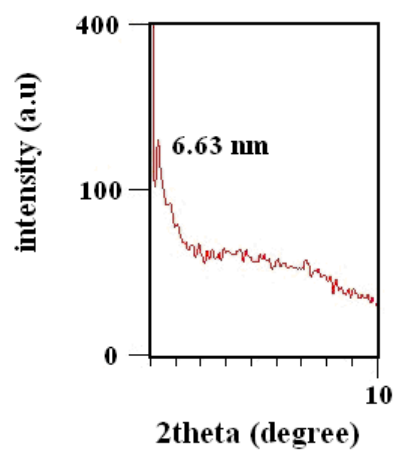


Figure S2. SAXRD pattern of the $\text{CdCl}_2 \cdot \text{H}_2\text{O}$ nanorod monolayer on the double-decker film. The 2θ angle of 1.33° corresponds to a d value of 6.63 nm.

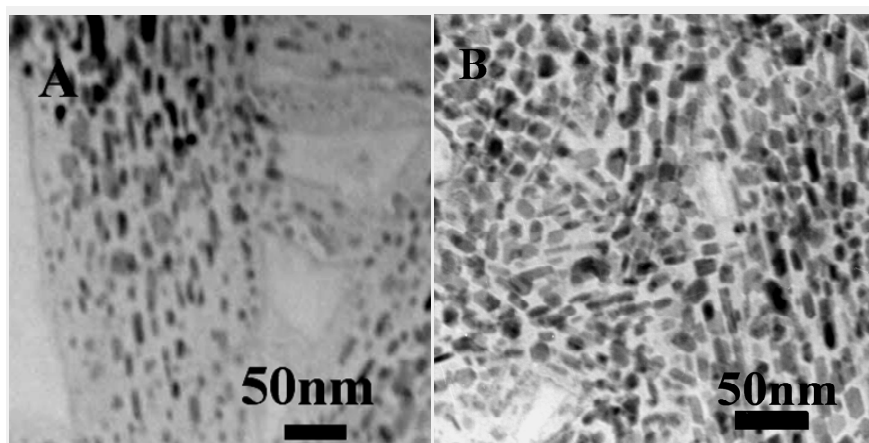


Figure S3. TEM images of the $\text{CdCl}_2 \cdot \text{H}_2\text{O}$ nanocrystals obtained at the surface pressure of 2.5 and 45 mN m^{-1} , respectively.

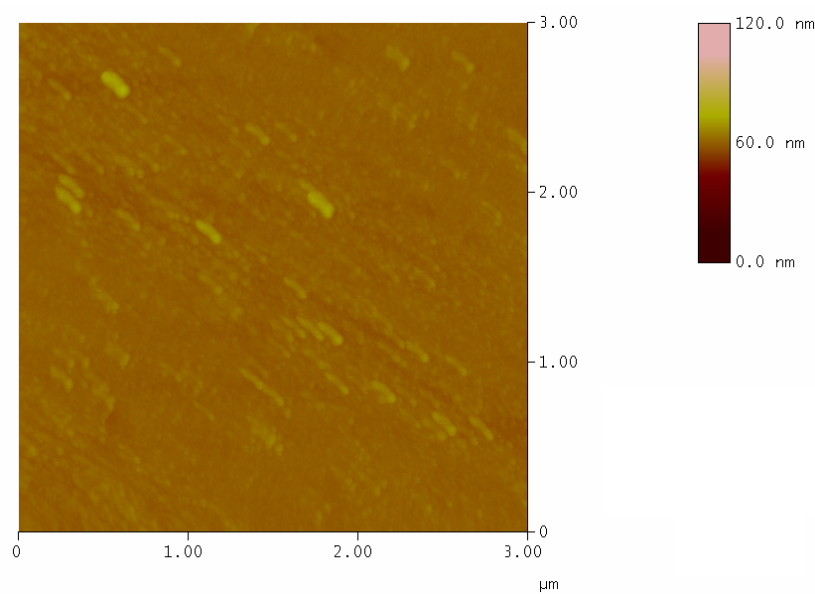


Figure S4. AFM topography of the CdCl₂·H₂O nanorod monolayer.

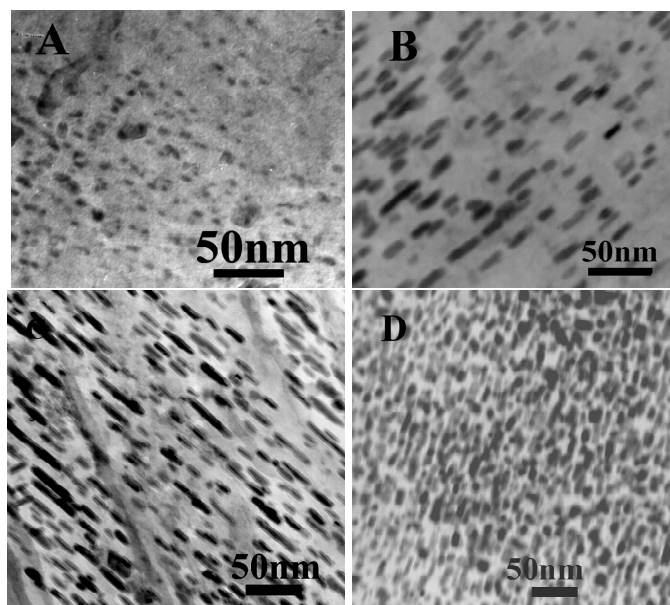


Figure S5. TEM images of the $\text{CdCl}_2 \cdot \text{H}_2\text{O}$ nanocrystals on the double-decker film obtained at the CdCl_2 concentration of A: $5 \times 10^{-4} \text{ mol} \cdot \text{L}^{-1}$, B: $5 \times 10^{-3} \text{ mol} \cdot \text{L}^{-1}$, C: $5 \times 10^{-2} \text{ mol} \cdot \text{L}^{-1}$, D: $5 \times 10^{-1} \text{ mol} \cdot \text{L}^{-1}$ after 3 hours.