

Supporting Information

Organic Nano-structures with Controllable Morphology Fabricated from Mixed (Phthalocyaninato)(porphyrinato) Europium Double-decker Complexes

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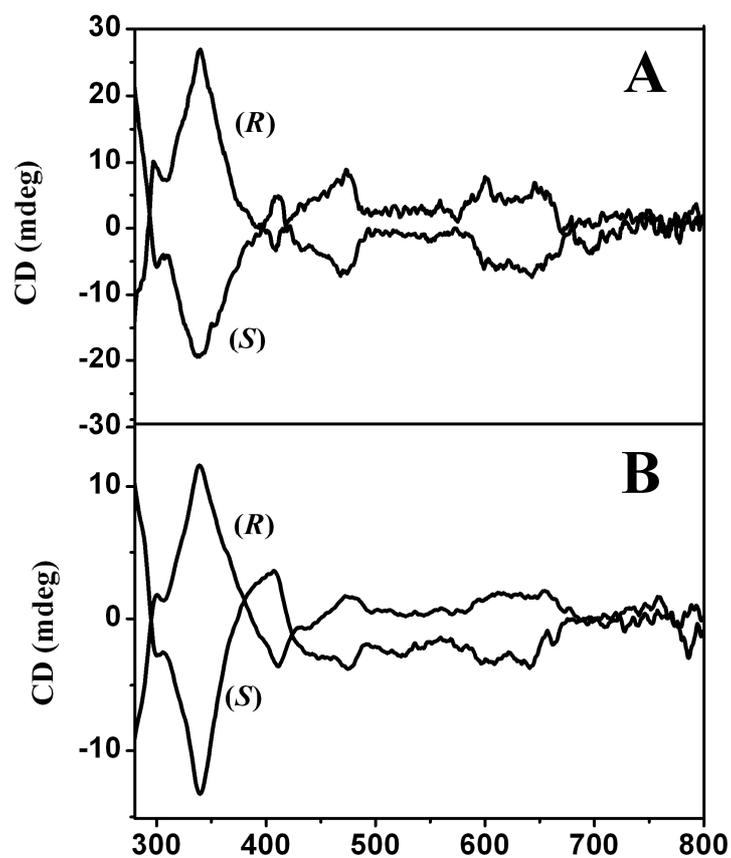


Figure S1. CD spectra of (*R*) and (*S*)-EuH[Pc(OBNP)₂](TCIPP) (**2**) in dilute chloroform solution (A) and their nano-scale hollow spheres fabricated from (*R*) and (*S*)-EuH[Pc(OBNP)₂](TCIPP) (**2**) with CMC dispersed in methanol (B).

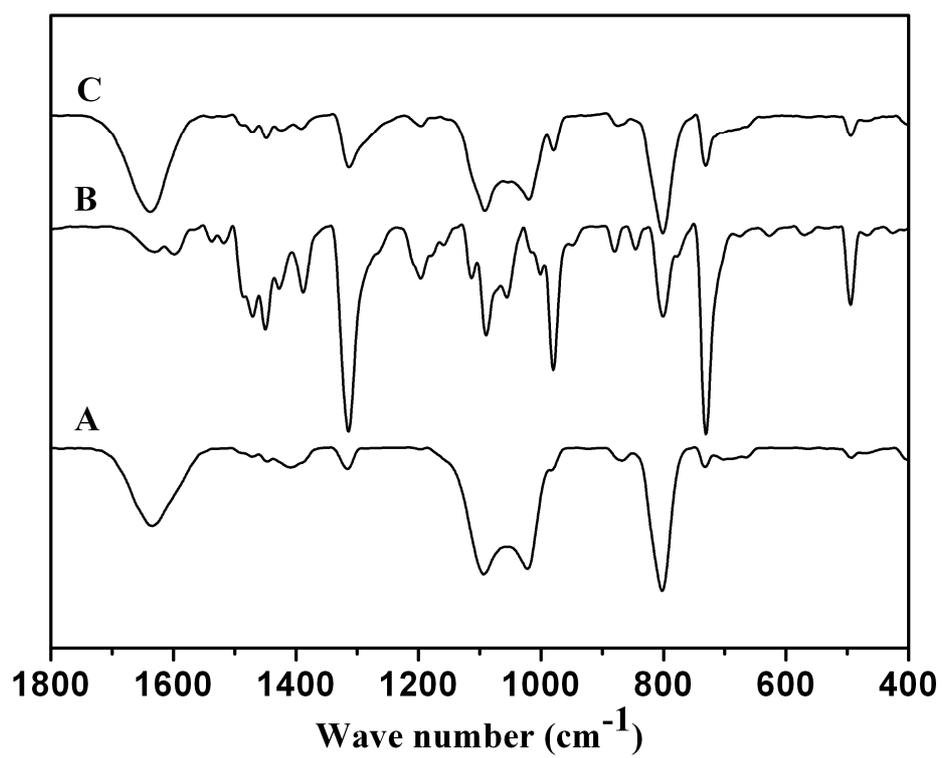


Figure S2. IR spectra of nano-scale hollow spheres (A) fabricated from **1**/CMC complex, double-decker **1** (B) and nano-belts fabricated from **1** (C) in the region of 400-1800 cm^{-1} with 2 cm^{-1} resolution.

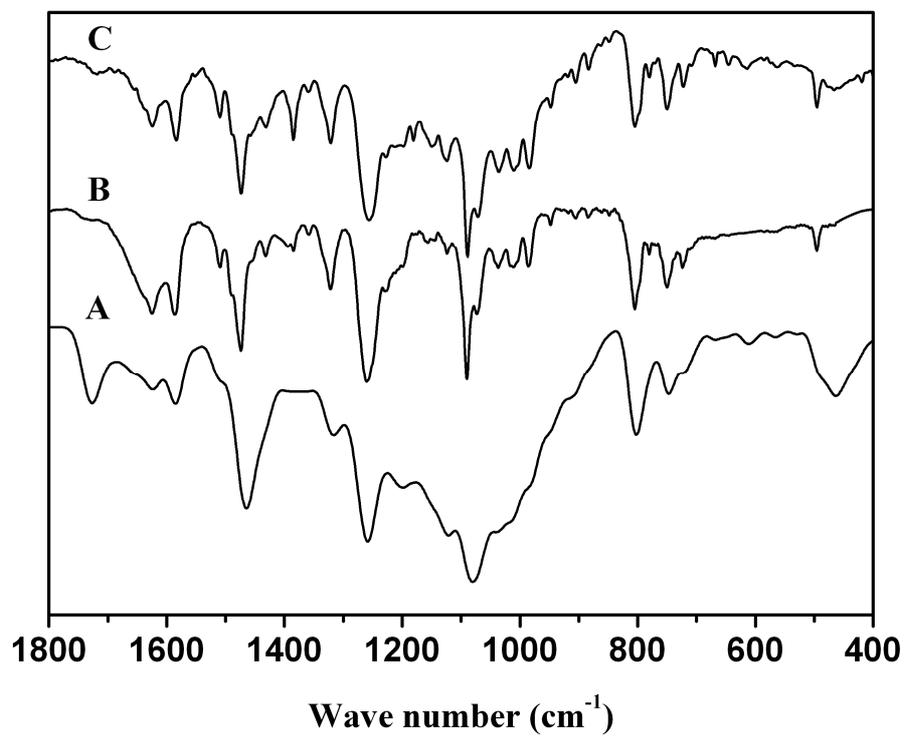


Figure S3. IR spectra of nano-scale hollow spheres (A) fabricated from 2/CMC complex, double-decker 2 (B) and nano-tubes fabricated from 2 (C) in the region of 400-1800 cm⁻¹ with 2 cm⁻¹ resolution.

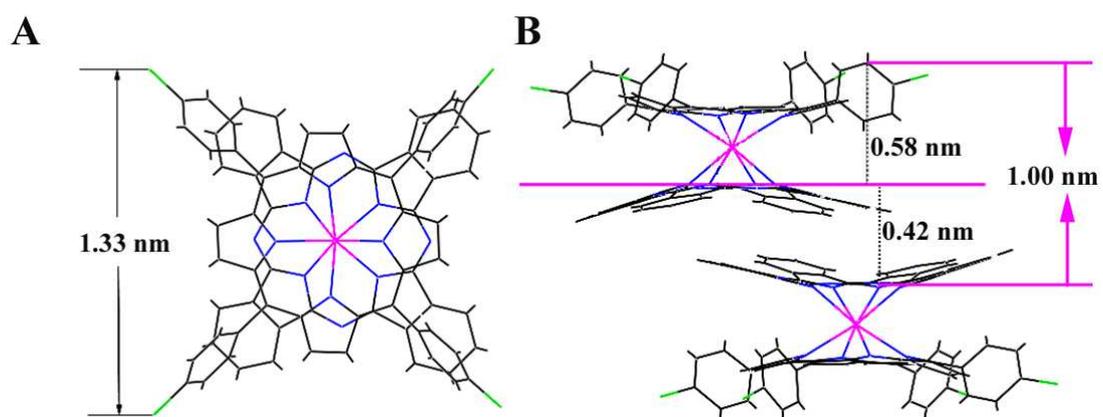


Figure S4. Molecular size of **1** obtained from the crystal structure of a similar compound Gd(Pc)(TCIPP) (A) and schematic representation of a dimer (B) formed from compound **1**.

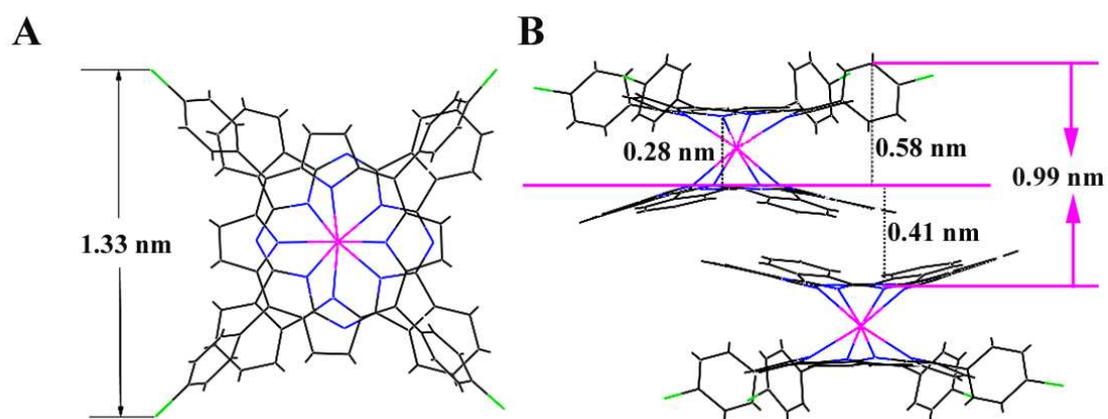


Figure S5. Molecular size of 1 obtained from the crystal structure of a similar compound, Gd(Pc)(TCIPP) (A) and schematic representation of a dimer (B) formed from 1/CMC complex.

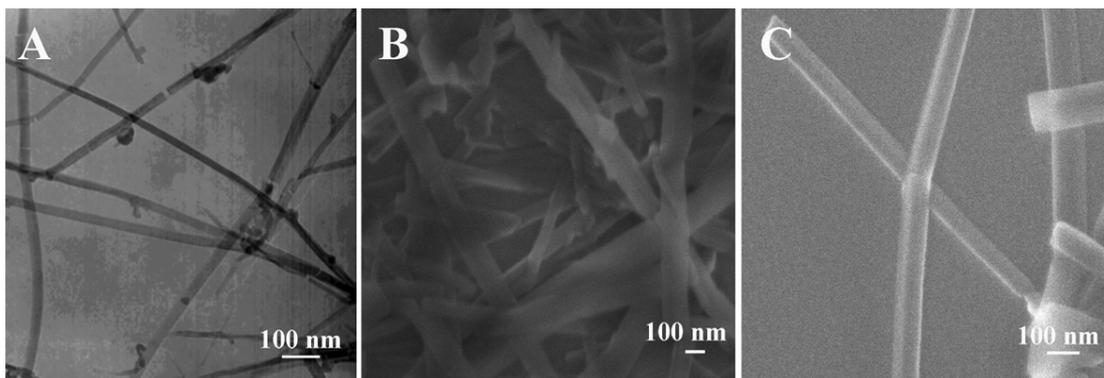


Figure S6. (A) Low-magnification TEM image of the self-assembled nano-belts of symmetric $\text{EuH}[\text{Pc}(\text{OBNP})_2](\text{TCIPP})$ (**2**); (B) SEM image of the self-assembled nano-belts of symmetric $\text{EuH}[\text{Pc}(\text{OBNP})_2](\text{TCIPP})$ (**2**); (C) High-magnification SEM image of symmetric $\text{EuH}[\text{Pc}(\text{OBNP})_2](\text{TCIPP})$ (**2**), showing the terminal belt structure.

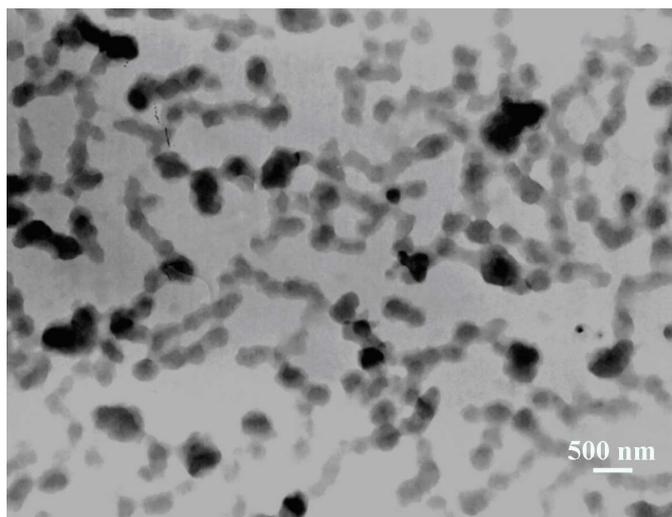


Figure S7. TEM spectra of nanoparticles fabricated from (R) -EuH[Pc(OBNP)₂](TCIPP) (**2**) at 45°C.