

Supporting Information

Bis[1,4,8,11,15,18,22,25-octa(butyloxy)phthalocyaninato] Rare Earth Double-Decker Complexes: Synthesis, Spectroscopy, and Molecular Structure

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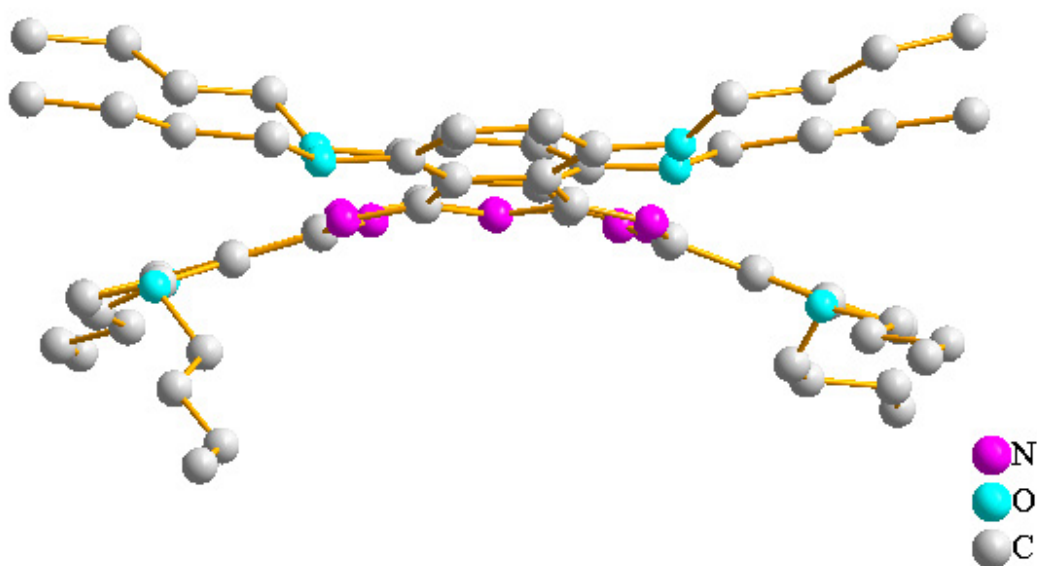


Figure S1. Molecular structure of metal-free H₂Pc(α-OC₄H₉)₈ in the side view. Hydrogen atoms are omitted for clarity. H₂Pc(α-OC₄H₉)₈ displays highly deformed non-planar structure.

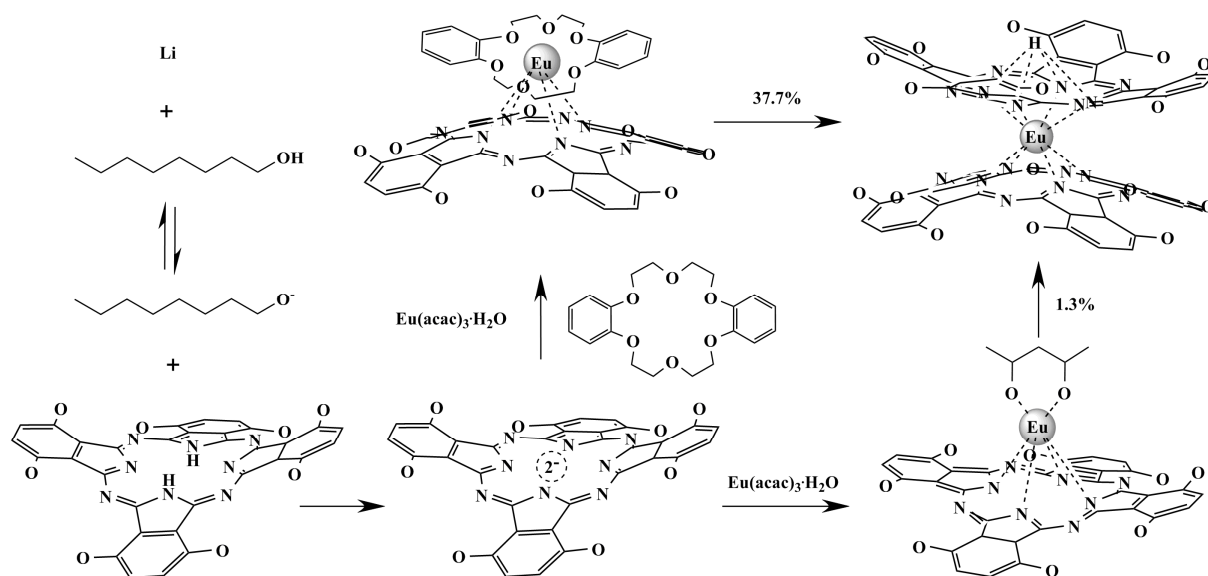


Figure S2. Formation of homoleptic bis[1,4,8,11,15,18,22,25-octa(butyloxy)phthalocyaninato]europium double-decker complex $\text{Eu}^{\text{III}}\text{H}[\text{Pc}(\alpha\text{-OC}_4\text{H}_9)_8]_2$ (**1**) in the presence of Li and dibenzo-18-crown-6. Hydrogen atoms and alkyl side chains were omitted for clarity.

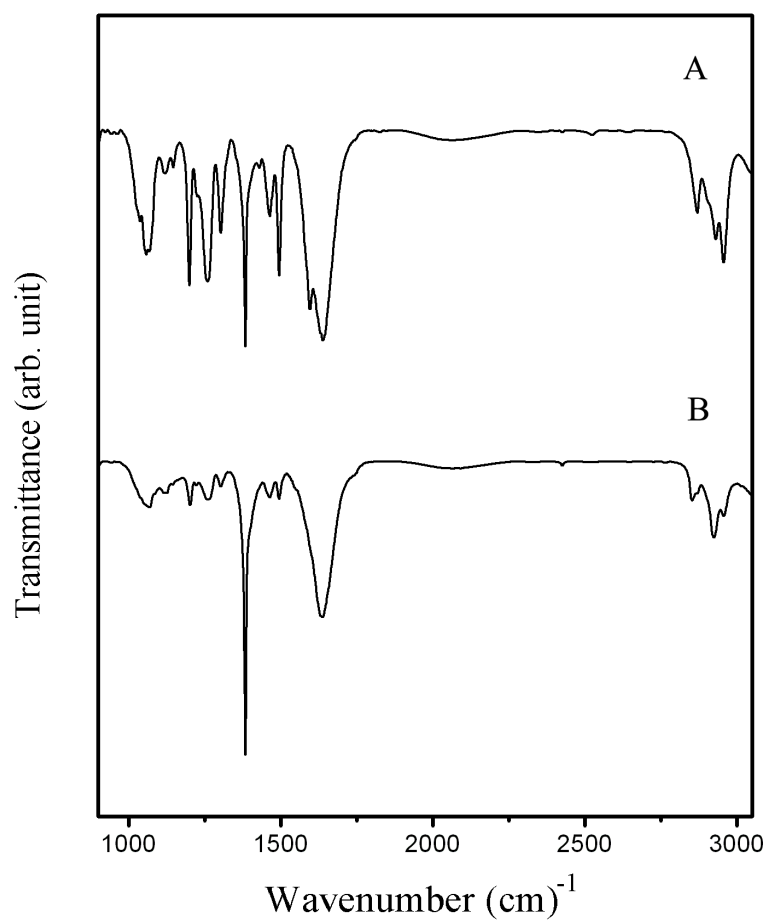


Figure S3. IR spectra of double-decker complexes **1** (A) and **2** (B) in the region 900-3050 cm⁻¹ with 2 cm⁻¹ resolution.