Electronic supplementary information

Self-Assembled 3D Architectures of Lanthanide Orthoborate: Hydrothermal Synthesis and Luminescence Properties

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Figure S1. XRD patterns of Y(OH)$_3$ (A) and the standard data for Y(OH)$_3$ (B) (JCPDS card 83-2042) is also presented in the figure for comparison.
Figure S2. SEM and TEM images of the as-prepared Y(OH)₃ products. HRTEM images are shown as insets for the corresponding products of TEM images.
**Figure S3.** XRD patterns of the as-prepared other Ln(OH)$_3$ products.
Figure S4. SEM and TEM images of the as-prepared Ln(OH)₃ products: (A, B) Dy(OH)₃, (C, D) Ho(OH)₃, and (E, F) Er(OH)₃.
Figure S5. FT-IR spectra of (A) YBO$_3$, (B) DyBO$_3$, (C) HoBO$_3$, and (D) ErBO$_3$. 