Supporting Information

Facile Synthesis and Luminescent Properties of Flower-like LaPO₄:Ln³⁺ (Ln = Ce, Tb) Hierarchical Architectures

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Figure S1. SEM images of the LaPO₄: Ce^{3+} samples obtained at 90 °C for 7.5 h with different content of ethanol (a: 6 mL; b: 11 mL; c: 16 mL).

Figure S2. SEM images of the LaPO₄: Ce^{3+} samples obtained at 90 °C for 7.5h with different content of concentrated HNO₃ (the amounts of ethanol used is 11 mL) (a: 3 mL; b: 4 mL; c: 5mL).

Figure S3. Simulated crystal structures of hexagonal LaPO₄ (a: packing view along the c axis; b: packing view along the a axis)

Figure S4. Excitation (a) and emission (b) spectra of LaPO₄: Ce^{3+} , Tb³⁺sample obtained at 90 °C for 7.5 h and the convenient bulk materials.

Figure S5. XRD pattern of LaPO₄:Ce³⁺,Tb³⁺ bulk material.



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