Supporting Information

Constructing Hierarchical Architectures of
Eu$^{3+}$-doped Mg$_3$B$_2$O$_6$ for Tunable Luminescent Properties

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Figure S1. XRD pattern of flower-like (a) and urchin-like (b) MgBO$_2$(OH).
Figure S2. TG/TGA curve for precursor MgBO$_2$(OH) from ambient temperature to 1000°C under N$_2$ protection. It indicates that the precursor can be calcinated above 650°C to transform stable Mg$_3$B$_2$O$_6$. 
**Figure S3.** SEM images of samples corresponding to flower-like (a) and urchin-like (b) \( \text{Mg}_3\text{B}_2\text{O}_6\text{Eu}^{3+} \) calcined at 900 °C for 3 h. All bars are 2 μm.
Figure S4. PL emission spectra of flower-like (a) and urchin-like (b) MgBO$_2$(OH) :Eu$^{3+}$. 