Electronic Supplementary Information

Synthesis of NaYF₄ with different morphology and enhanced up-conversion luminescence property

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Figure S1. SEM images of NaYF₄ (A), SEM images of NaYF₄:16%Yb³⁺/1%Tm³⁺ (B).
**Figure S2.** SEM images of NaYF₄:Yb³⁺/Tm³⁺ prepared with the PSS concentration of 18 g/L for 12 h (pH = 6) using NH₄F as the fluorine source at 120 °C (A), 160 °C(B), 180 °C (C), 200 °C (D).