

Supporting Information

Investigation on the Temperature Sensing Behavior in Yb³⁺ Sensitized Er³⁺ doped Y₂O₃, YAG and LaAlO₃ Phosphors

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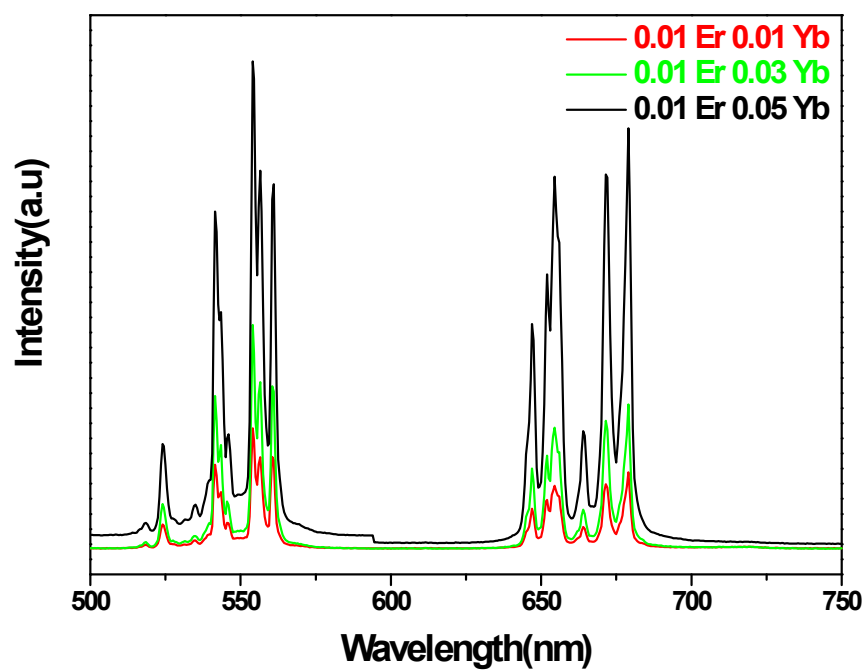


Figure S1 The UC luminescence spectra of YAG: $x \text{ Er}^{3+}$, $y \text{ Yb}^{3+}$ ($x=0.01$; $y=0.01$, 0.03 , 0.05).

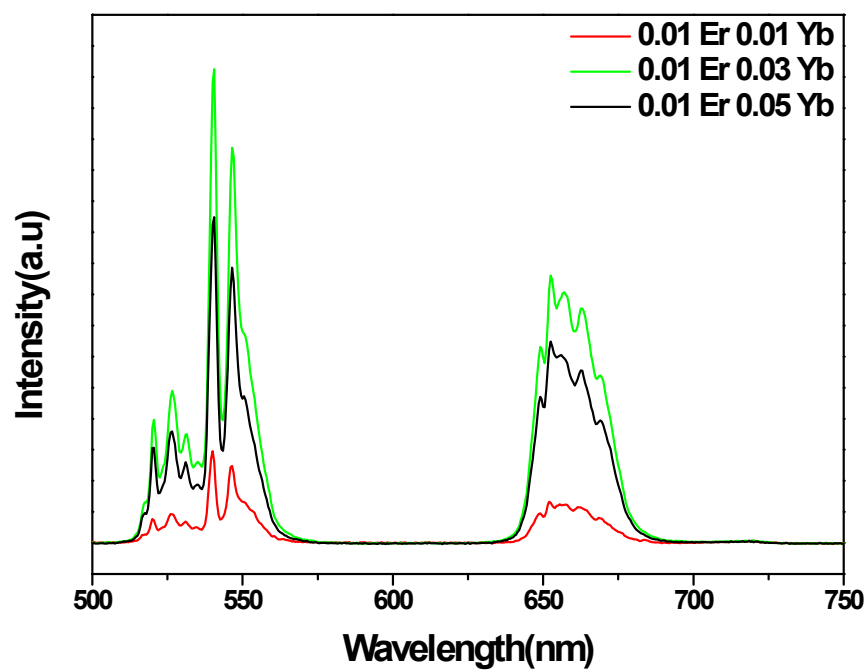


Figure S2 The UC luminescence spectra of LaAlO₃: x Er³⁺, y Yb³⁺ (x=0.01; y=0.01, 0.03, 0.05).

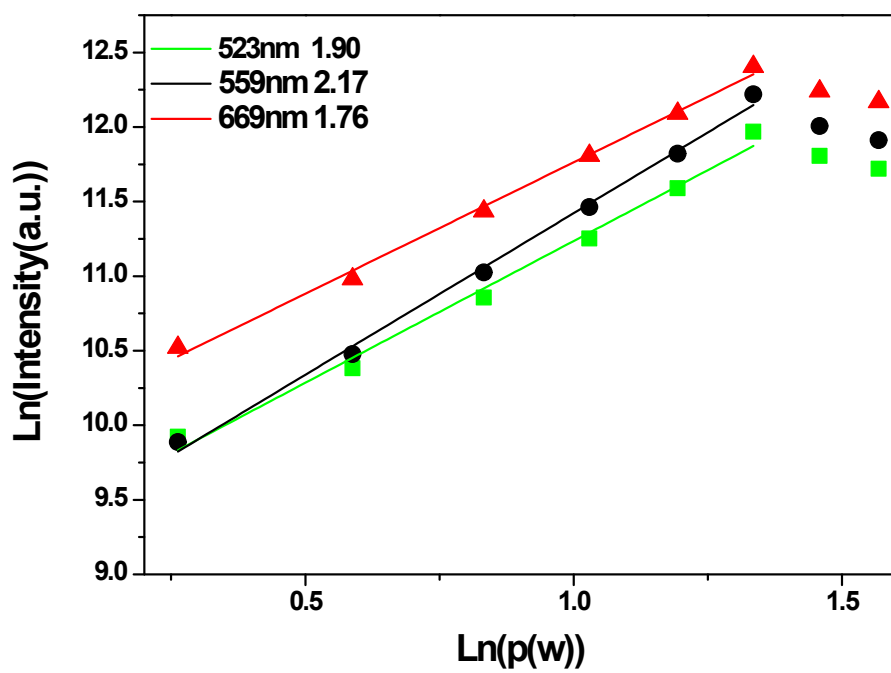


Figure S3 The log-log plots of UC emission intensity of YAG: 0.01 Er³⁺, 0.05 Yb³⁺ as a function of a 980 nm laser pumping power.

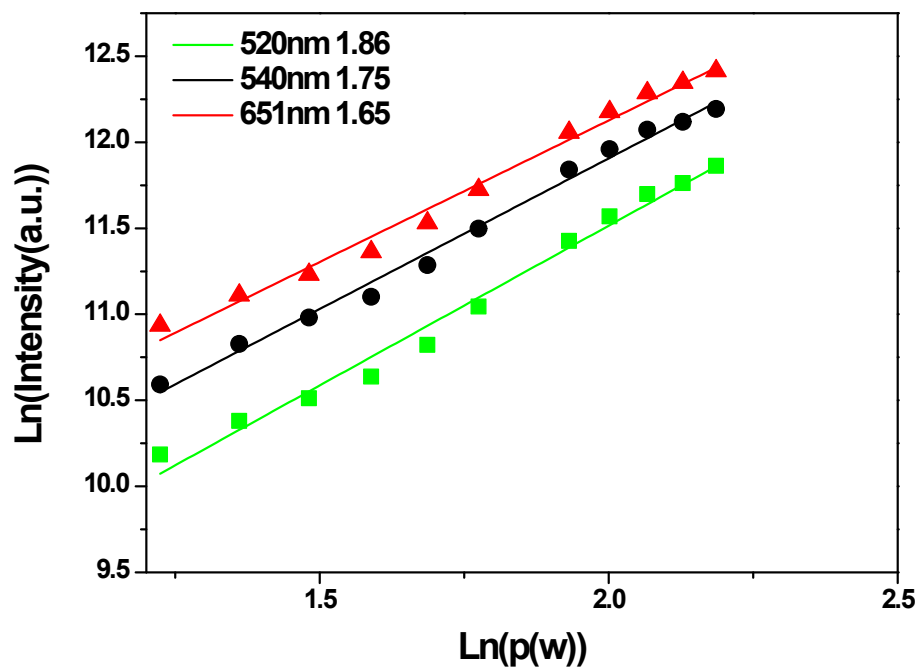


Figure S4 The log-log plots of UC emission intensity of $\text{LaAlO}_3: 0.01 \text{ Er}^{3+}, 0.03 \text{ Yb}^{3+}$ as a function of a 980 nm laser pumping power.