

Supporting Information

Controlling red upconversion luminescence for $\text{Gd}_2\text{O}_2\text{:Yb}^{3+}\text{-Er}^{3+}$ nanoparticles via atmosphere

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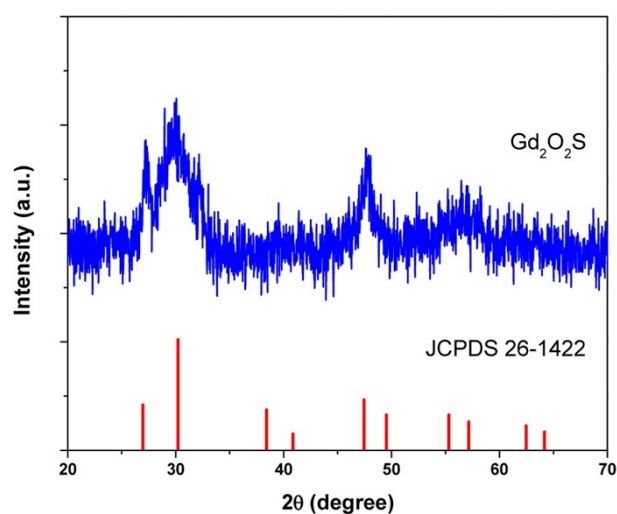


Fig. S1 XRD pattern of the $\text{Gd}_2\text{O}_2\text{S:9\%Yb}^{3+}\text{-1\%Er}^{3+}$.

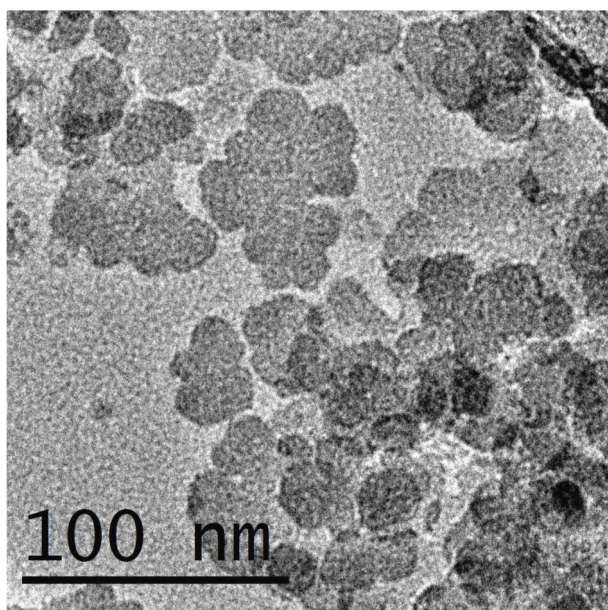


Fig. S2 TEM image of $\text{Gd}_2\text{O}_2\text{S}: 9\% \text{Yb}^{3+} - 1\% \text{Er}^{3+}$.