

Highly modified spontaneous emission in $\text{NaY}(\text{MoO}_4)_2$: $\text{Yb}^{3+}/\text{Er}^{3+}$ inverse opal photonic crystals

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Supporting Information

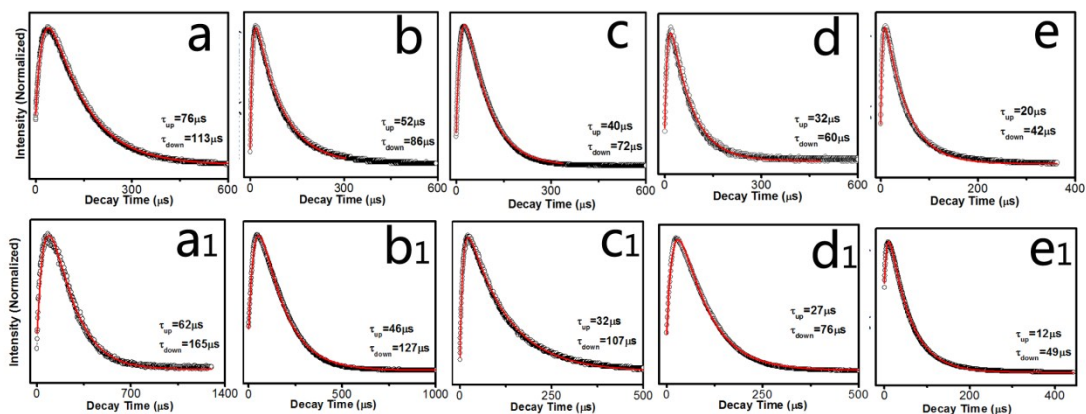


Fig. S1 The UCL decay dynamic of the ${}^2H_{11/2} \rightarrow {}^4I_{15/2}$ transition at 533 nm of Er^{3+} ions $NaY(MoO_4)_2:20\% Yb^{3+}/x Er^{3+}$ REF (a, b, c, d, e) and IOPC (a₁, b₁, c₁, d₁, e₁) samples with the different doping concentrations of Er^{3+} ions (0.5%, 1%, 2%, 3% and 4%) by monitoring the UC emissions under the excitation of 980 nm laser.

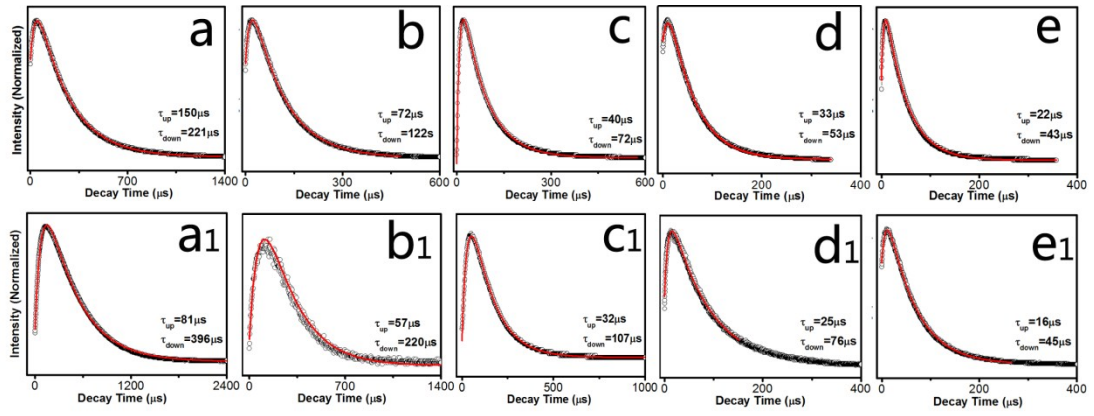


Fig. S2 The UCL decay dynamic of the ${}^2H_{11/2} \rightarrow {}^4I_{15/2}$ transition at 533 nm of Er^{3+} ions $NaY(MoO_4)_2 \cdot x Yb^{3+}/2\% Er^{3+}$ REF (a, b, c, d, e) and IOPC (a₁, b₁, c₁, d₁, e₁) samples with the different doping concentrations of Yb^{3+} ions (5%, 10%, 20%, 30% and 40%) by monitoring the UC emissions under the excitation of 980 nm laser.