

Temperature-Dependent Upconversion Luminescence and Dynamics of $\text{NaYF}_4:\text{Yb}^{3+}/\text{Er}^{3+}$ Nanocrystals: Influence of Particle Size and Crystalline Phase

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Supporting Information

The UCL decay time of the transitions at 416 nm 544 nm and 656 nm of Er^{3+} ions in 25 nm α - NaYF_4 Figure S1 (a),(b) and (c); bulk β - NaYF_4 Figure S2 (a), (b) and (c) samples with different temperature. From the best fitting functions it can be seen that for the 25-nm and bulk samples, their luminescent dynamics are similar to those of the 45-nm samples in our work.

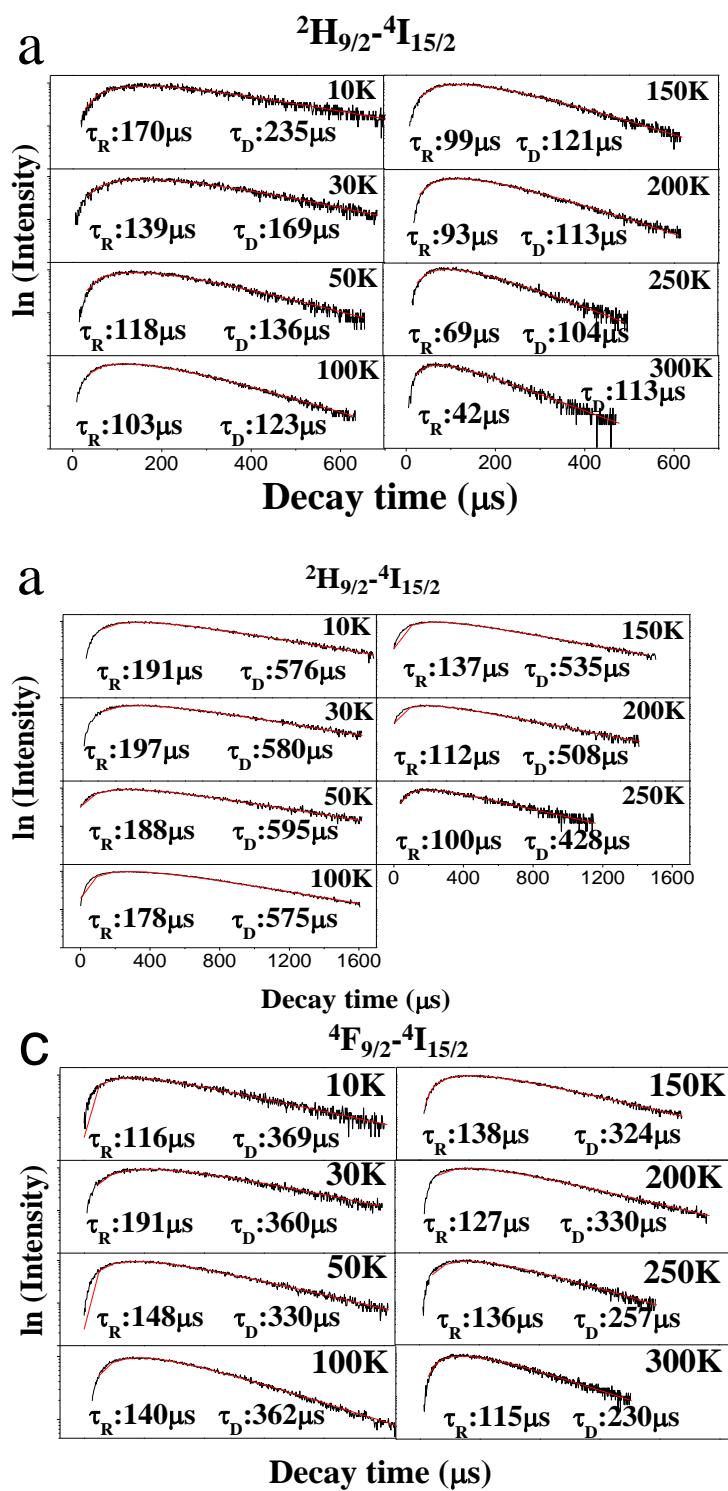


Figure S1 The UCL decay time of the transitions at 416nm 544 nm and 656 nm of Er^{3+} ions in 25 nm $\alpha\text{-NaYF}_4$

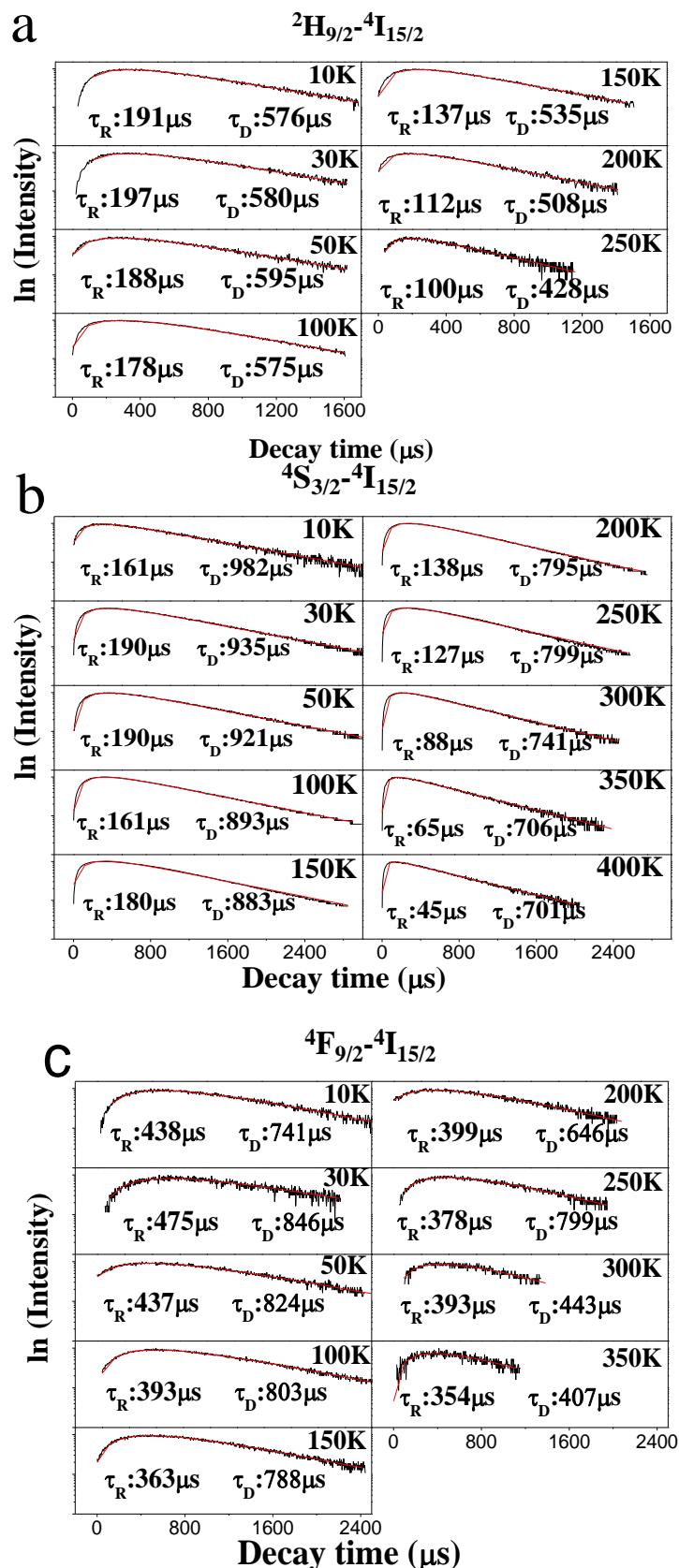


Figure S2 The UCL decay time of the transitions at 416nm 544 nm and 656 nm of

Er^{3+} ions in 25 nm $\alpha\text{-NaYF}_4$