

Supplementary Material (ESI) for the Journal of Materials Chemistry Supplementary Information:

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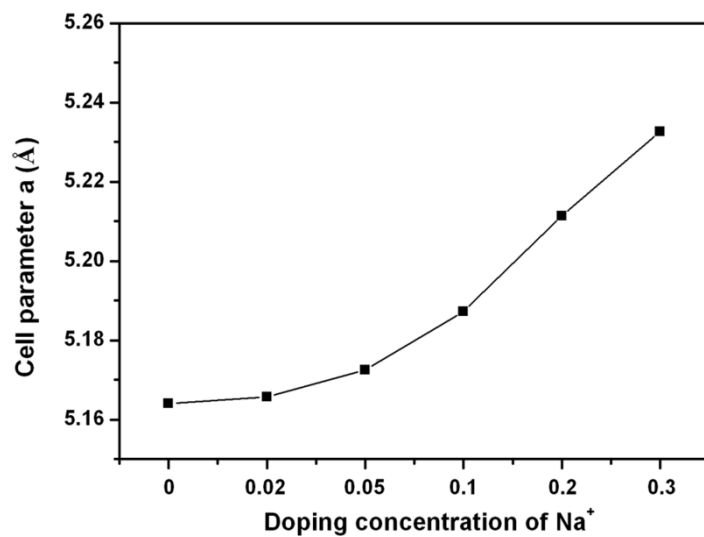


Figure S1. The cell parameter as a function of the Na^+ doping concentrations (x).

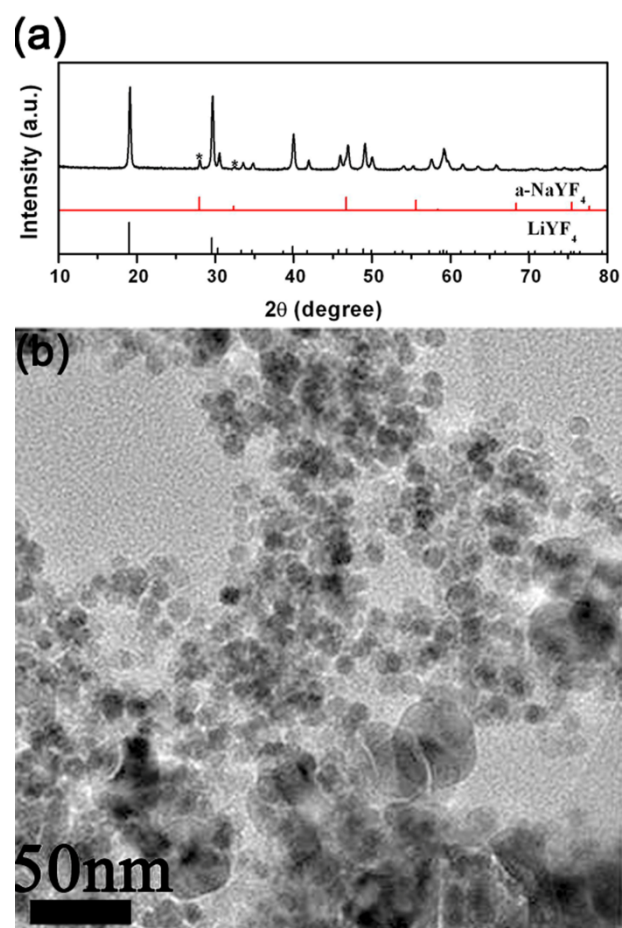


Figure S2. XRD pattern (a) and TEM image (b) of Li_{0.6}Na_{0.4}YF₄ NCs.

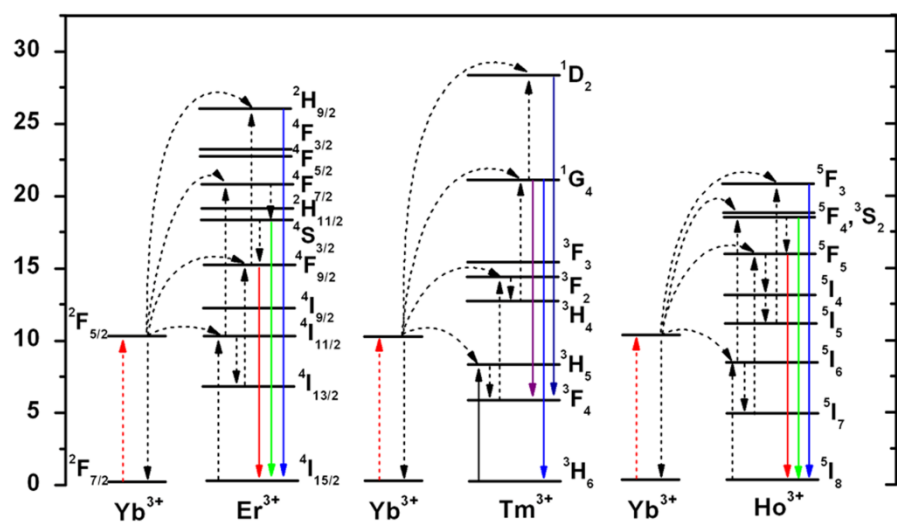


Figure S3. Schematic energy level diagrams showing typical UC processes for Yb³⁺, Er³⁺, Tm³⁺ and Ho³⁺.