

Supplementary materials

Special Properties of Luminescent Magnetic NaGdF₄: Yb³⁺, Er³⁺ Upconversion Nanocubes with Surface Modification

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Using the same method, we synthesized and characterized the upconversion nanoparticles without PEI.

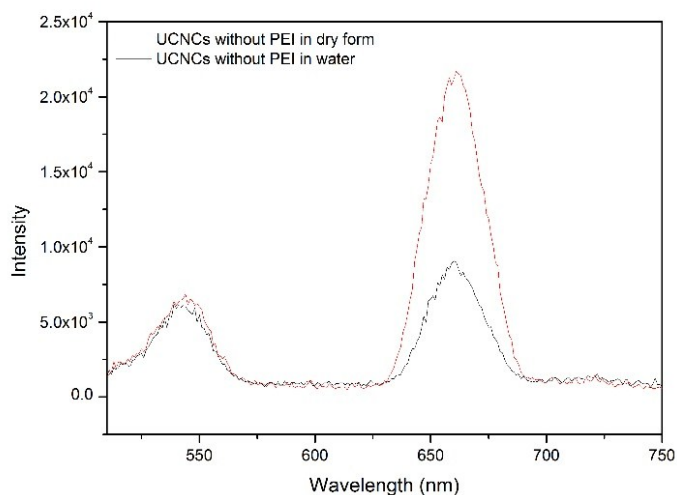


Figure S1. Photoluminescence spectra of NaGdF₄: Yb³⁺, Er³⁺ nanoparticles without PEI modification in solution and in dry form.

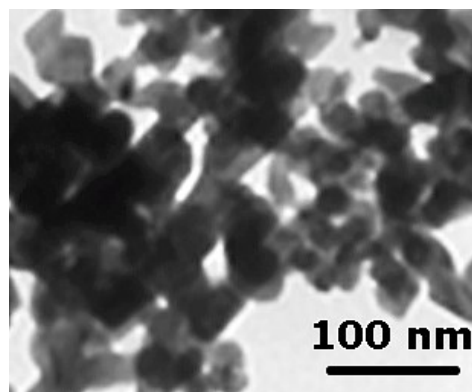


Figure S2. TEM micrograph of the NaGdF₄: Yb³⁺, Er³⁺ nanoparticles without PEI modification.