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Spectroscopic studies of nano NaYF₄ doped with RE³⁺ synthesized via thermal decomposition of organic precursors.

The structural and luminescence properties of sodium yttrium fluoride (NaYF₄) nanoparticles co-doped with rare earth ions, prepared using a thermal decomposition of fluoracetates precursors, were investigated. Luminescent NaYF₄:Er³⁺ nanoparticles in the range of 8-30 nm were obtained.

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