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## **Spectroscopic studies of nano NaYF<sub>4</sub> doped with RE<sub>3+</sub> synthesized via thermal decomposition of organic precursors.**

The structural and luminescence properties of sodium yttrium fluoride (NaYF<sub>4</sub>) nanoparticles co-doped with rare earth ions, prepared using a thermal decomposition of fluoracetates precursors, were investigated. Luminescent NaYF<sub>4</sub>:Er<sub>3+</sub> nanoparticles in the range of 8-30 nm were obtained.

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