## Structure and spectroscopy characterization of La<sub>1-x</sub>Sm<sub>x</sub>VO<sub>4</sub> luminescent nanoparticles synthesized co-precipitation and sol-gel methods

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## Highlights

- La<sub>1-x</sub>Sm<sub>x</sub>VO<sub>4</sub> nanoparticles synthesized by co-precipitation and sol-gel methods.
- Phase compositions of the samples depend on method of synthesis and Sm concentration.
- Morphology and optical properties depend on phase compositions.
- Two types of luminescence centers are connected with tetragonal or monoclinic phases.