

EFFECTS OF HETEROVALENT DOPING ON MORPHOLOGY AND STRUCTURAL PROPERTIES OF THE $\text{La}_{1-x}\text{Eu}_x\text{VO}_4$ NANOPARTICLES

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Abstract

Structural, chemical and morphological characteristics of luminescent active $\text{La}_{1-x-y}\text{Eu}_x\text{Ca}_y\text{VO}_4$ sol-gel nanoparticles are studied. Incorporation of Ca^{2+} cations in the REVO_4 crystal lattice is confirmed. Changes of the samples' compositions are found to be accompanied by changes of sizes and morphology of nanoparticles.

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