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FTIR SPECTROSCOPY OF THE VANADATE NANOPARTICLES OF VARIOUS CATION COMPOSITIONS

The La1-xCaxVO4 and La1-x-yEuyCaxVO4($0 \le x$, $y \le 0.2$)micro/nanosized powders were prepared by aqueous nitrate-citrate sol-gel synthesis. Phase composition of the sample depends on the x, y values. Phase transformation and especially Ca2+ ions influence IR spectroscopy and luminescence behavior of studied compounds, as Ca2+ ions impact both on VO43- molecular groups and La3+ and Eu3+ ions.

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