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Luminescent properties of nanoparticle CaTiO3 phosphor

Praseodymium doped calcium titanate phosphors (CaTiO3:Pr) exhibiting red emission are synthesized by using the sol – gel method and the structures were determined using the X-ray diffraction technique. The photoluminescence properties of the CaTiO3:Pr were determined using photoluminescence spectroscopy and cathodoluminescence spectroscopy. Particle morphology was determined using Scanning electron microscopy.

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