

11. Synthesis And Photo luminscence Of CaSO₄: Eu³⁺ Phosphor

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ABSTRACT

In this paper the synthesis and Photoluminescence of CaSO₄: Eu³⁺ phosphors has been studied. The CaSO₄ phosphors doped for different concentrations of Eu (1,3,5 mole %) have been prepared by co-precipitation method. The sample shows maximum peak of intensity for 5% doping of Eu³⁺. The excitation at 254nm and emission at 615nm of Photoluminescence was investigated. The sample shows strong emission around 611nm.

Keywords: Photoluminescence ,phosphors, excitation, emission.