

CHARACTERISATION OF MgO PRODUCED BY COMBUSTION SYNTHESIS METHOD DOPED WITH Dy³⁺

GITANJALI SAHU, ANUBHA S. GOUR & B.P CHANDRA

SOS in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India

ABSTRACT

The objective of this study is to explore the possibility of synthesizing MgO: Dy³⁺ by using combustion synthesis method. Magnesium oxide powders doped with Dy have been prepared by this method and synthesis occurs. The average particle size, d spacing and intensity are estimated from XRD analysis. The morphology and structure was analyzed by scanning electron microscopy. EDX was used for the elemental analysis of the sample.

KEYWORDS: Combustion Synthesis, XRD, SEM, EDX, Nanoparticles