

NARROW BAND RED EMISSION IN EUROPIUM ACTIVATED CERIA NANOCRYSTALS

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ABSTRACT

Europium activated Ceria nanocrystals having 14.8 nm crystallite size, prepared by precipitation method exhibit very narrow emission band at 590 nm with high intensity. This is significant as the width of the peak is not more than a few nano meters and the intensity is quite high. The material is likely to have a high efficiency of conversion.

KEYWORDS: Cerium Oxide, Narrow Emission, Ceria Nano Meters