



Luminescence Studies of rare-earth Ce^{3+} and Dy^{3+} doped SrAl_2O_4 aluminate phosphors

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ABSTRACT

The rare-earth doped $\text{Sr}_{0.96}\text{Ce}_{0.04-x}\text{Dy}_x\text{Al}_2\text{O}_4$ [$x = 0.03, 0.02, 0.01$] aluminate phosphors synthesized by the high temperature solid-state reaction route are reported in this work. The phosphors under investigation were characterized for the structural and luminescence properties. The structural studies were carried out exploiting X-ray diffraction, Raman scattering technique, and the Fourier transform infrared spectroscopy. The optical study of the phosphors under observation comprises UV-Vis, thermoluminescence, and photoluminescence studies. The XRD results of these materials on analysis revealed that the samples exhibit double phase where dominating phase is that of desired $\text{Sr}_{0.96}\text{Ce}_{0.04-x}\text{Dy}_x\text{Al}_2\text{O}_4$ [$x = 0.03, 0.02, 0.01$] phosphors with trace of secondary phase arising from unreacted SrCO_3 . The $\text{Sr}_{0.96}\text{Ce}_{0.04-x}\text{Dy}_x\text{Al}_2\text{O}_4$ [$x = 0.03, 0.02, 0.01$] aluminates have acquired the monoclinic phase ($P1\ 21\ n$) and SrCO_3 was found to have crystallized into the orthorhombic ($Pmca$) phase. The characteristic Raman band at around $\approx 460\text{ cm}^{-1}$ for $\text{Sr}_{0.96}\text{Ce}_{0.03}\text{Dy}_{0.03}\text{Al}_2\text{O}_4$ phosphor conveys the monoclinic structure in the sample. The UV-Vis spectral studies revealed the optical bandgap around 3 eV. Thermoluminescence study inferred the optimum intensity for 25-min exposure to the excitation radiation with higher intensity for $x = 0.02$ (Dy/Ce) concentration. The photoluminescence studies revealed the emission in the blue region for $x = 0.03$ and 0.02 confirmed from the CIE coordinate values and near red emission in the higher concentrated Ce^{3+} ions.

1 Introduction

Luminescent materials (phosphors) emit light which they absorb when they are exposed to excitation source. These phosphor materials are classified according to their chemical nature, feasibility in the

application or in the sense of use of excitation source. From the excitation point of view, the various categorizes of luminescent materials are photoluminescent, thermoluminescent, cathodoluminescent, chemiluminescent, X-ray luminescent,

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bioluminescence from 1979 through 1987 are annotated and cross indexed by author organism studied geographic location and key words Sources of research funding are discussed and the most prolific institutions and most popular sources for publication are identified Six areas of particular interest namely flash characteristics stimulation techniques geographic and temporal distribution and occurrence and correlation with environmental parameters the luminous organism themselves symbiosis and circadian rhythms are identified and analyzed for significant progress important research omissions and trends No significant trends are identified although the suggestion of the possibility of a decrease in research effort in these areas over the decade is noted The international nature of the research is considered Bioluminescence Marine biology Optical properties

Geological Survey Research ,1961 A summary of recent significant scientific and economic results accompanied by a list of geologic hydrologic and cartographic investigations in progress

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