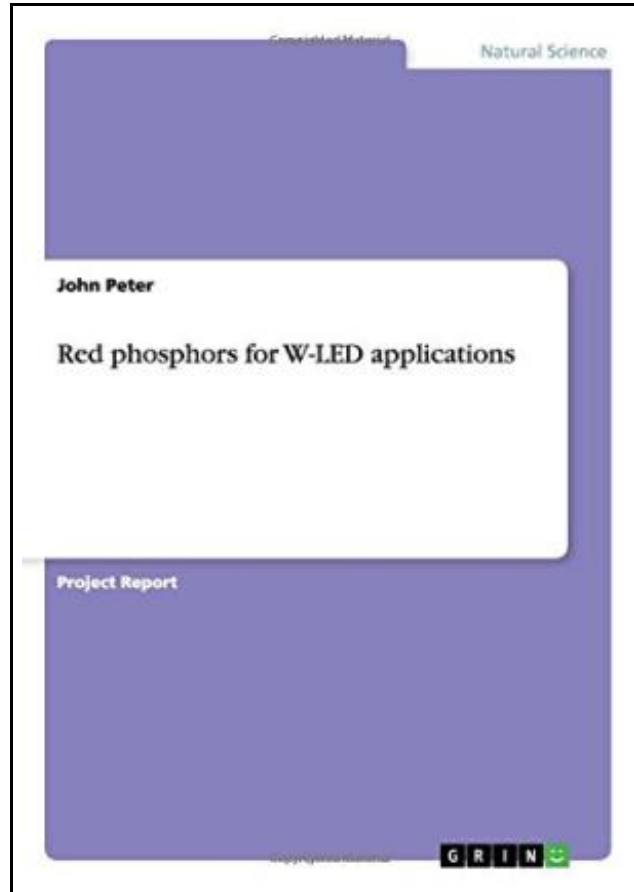


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GRIN Verlag Okt 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x2 mm. This item is printed on demand - Print on Demand Titel. Neuware - Project Report from the year 2015 in the subject Physics - Optics, ST Anne's College Of Engineering And Technology (St. Anne's College of Engineering and Technology, Panruti, Tamilnadu, India), language: English, abstract: Trivalent rare-earth-ion-activated molybdate based phosphors have attracted great attention for solid-state lighting applications by virtue of their long lifetimes, and efficient luminescence property. The rare-earth ions are represented by a partly filled 4f shell that is completely shielded by 5s2 and 5p6 orbitals. Therefore, emission transitions provide sharp intense lines in the optical spectra [1, 2]. The use of rare-earth element-based phosphor, based on "line-type" f-f transitions, can narrow the emissions to the visible range, resulting in high efficiency and a high-lumen equivalence. In recent years, a flourishing care is concentrated on $\text{Li}_3\text{Ba}_2\text{Gd}_3\text{-x}(\text{MoO}_4)_8$ host matrix for luminescent ions in the interest of their excellent chemical and thermal stability and favourable luminescence characteristics compared to the sulfide- and nitride-based materials. Moreover, these are environmentally friendly as no toxic gases like sulphide are given out. $\text{Li}_3\text{Ba}_2\text{Gd}_3\text{-x}(\text{MoO}_4)_8$ occur in monoclinic crystal system with space group C2/c in a disordered structure [3]. For this research paper, a series of $\text{Li}_3\text{Ba}_2\text{Gd}_3\text{-xPr}_x(\text{MoO}_4)_8$ ($x = 0.01, 0.03, 0.05, 0.07$ and 0.09 mol) and $\text{Li}_3\text{Ba}_2\text{Gd}_3\text{-xSm}_x(\text{MoO}_4)_8$ ($x = 0.02, 0.04, 0.06, 0.08$ and 0.10 mol) red phosphors were synthesized by conventional solid state reaction method. 24 pp. Englisch.



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