
Practical Applications Phosphors

near infrared long-persistent phosphorescence in la ... - phosphors. in design of nir phosphors, trivalent chromium ion (Cr^{3+}) is a favorable choice of activation center because the luminescence wavelengths of Cr^{3+} -activated phosphors, from 660 to 1300 nm depending on the crystal field strength of the host lattices, meets the requirement of many technological applications. **persistent phosphors based on alkaline-earth aluminate hosts** - these applications for luminescent and display materials were completely enabled by the discovery of the $Ca_2SiO_4:Eu^{2+}, Re^{3+}$ family of phosphors by Matsuzawa, et al. apart from the practical application of persistent phosphors, the Matsuzawa, et al. paper opened up the field of persistent phosphors and their study, in order to **a review on luminescence properties in eu doped phosphate ...** - a review on luminescence properties in eu doped phosphate phosphors. ... closer look at the mechanisms and applications that have been suggested to explain bright afterglow in various compounds. ... phosphors are solid luminescent material which emits photons when excited by an **1 emission and excitation mechanisms of phosphors** - quite a few very important commercial phosphors are based on rare-earth ions. rare-earth based phosphors are frequently applied in very demanding applications. 1.4.2 charge transfer luminescence in the case of charge transfer, the optical transition takes place between different **advances in phosphors for light-emitting diodes** - advances in phosphors for light-emitting diodes ... and thermal quenching of commercial phosphors for light-emitting diodes (leds) suggest two exciting approaches of uv-led chip (with the wavelength of 380 420 nm) and ... centers in most inorganic phosphors, tend to be very expensive. **narrow red phosphor technology - lumileds** - because of the broad bandwidth of the phosphors used in these leds, a significant portion of the light is emitted in regions where the eye has little sensitivity. this portion becomes larger as the cri increases, because a ... for all practical purposes, the efficacy of 90 cri leds must ... **wp32 narrow red phosphor technology white paper ... preparation of rare-earth-free oxide glass phosphors** - preparation of rare-earth-free oxide glass phosphors ... mainly two problems in the blue and uv led applications shown in fig. 1. first point is low color rendering. white light- ... to attain high performance for practical application using amorphous materials. therefore, we have selected ns2-type **photoluminescence and thermoluminescence properties of ...** - the crystal and, in turn, the design of new phosphors of practical relevance (Mckinlay 1981; Mckeever 1985). thermoluminescence (tl) is a related property shown by phosphors. this phenomenon involves radiative re-combination of thermally released electrons or holes from their traps, which were created by exposure to ionizing radiation. **fluorescent lamp phosphors - electrochemical society** - phosphors prohibits such compositions for practical applications. the high reflectivity and the fact that the green and blue phosphors are stronger absorbers of the 254 nm radiation requires the $Y_2O_3:Eu^{3+}$ phosphor to be the dominant component (by weight) of the triphosphor blend. the quantum efficiency of this phosphor is close to unity and ... **practical multiscale advanced materials december 12, 2012 ...** - phosphors materials has been developed 2. besides, express screening for f-f transitions is possible 3. the approach is surely validated and it was successfully for practical screening of new phosphors materials 1. approach for predictive first-principle-based multiscale modeling of advanced phosphors materials has been developed 2.

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