Abstract

Process for the preparation of phosphors based on orthosilicates for pcLEDs

The invention relates to a process for the preparation of phosphors of the formula I

$$Ba_wSr_xCa_ySiO_4 : zEu^{2+} \qquad (I)$$

where

$w + x + y + z = 2$ and

$0.005 \leq z \leq 0.3$,

and to an illumination unit and to the use of the phosphor as LED conversion phosphor for white LEDs or so-called colour-on-demand applications.