

ABSTRACT

RED EMISSION ORGANIC PHOSPHOR WITH BROAD EXCITATION BAND

- 5 A phosphor of the general formula $\text{Eu}(\text{A})_{3-x}(\text{B})_{2x+2}$ where A is a β -diketone and B is an organic phosphine oxide (R_3PO - R = , aryl, alkylene acyl, phenyl and their derivatives. The phosphor being synthesized in a single step process where a lanthanide ion solution is added to a β -diketone and organic phosphine oxide mixture. The phosphor having a high intensity red line emission at between 610 to 620nm
- 10 depending on ligand groups.

(No Figure to Accompany Abstract)