

The enhancement of photoluminescence of $\text{LiSrPO}_4:\text{Eu}^{2+}$ phosphor prepared by spray pyrolysis

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Blue emitting $\text{LiSrPO}_4:\text{Eu}^{2+}$ phosphor particles for white light emitting diode (LED) were synthesized by spray pyrolysis. Flux materials with low melting point were introduced to enhance PL intensity of $\text{LiSrPO}_4:\text{Eu}^{2+}$ phosphor in spray pyrolysis. The effect of flux materials on the crystallinity, morphology and PL intensity of $\text{LiSrPO}_4:\text{Eu}^{2+}$ phosphor was investigated by SEM, XRD and spectrofluorometry.