

Supporting Information

Novel Ce^{3+} activated $\text{Lu}_3\text{MgAl}_3\text{SiO}_{12}$ garnet phosphor for blue chip light-emitting diodes with excellent performance

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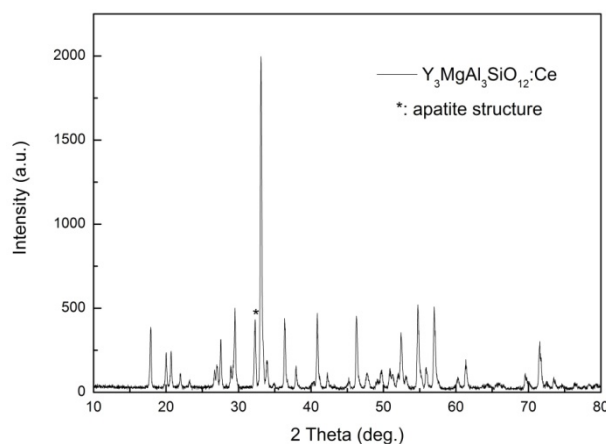


Figure S1 XRD pattern of synthesized $\text{Y}_3\text{MgAl}_3\text{SiO}_{12}:\text{Ce}$ phosphor.

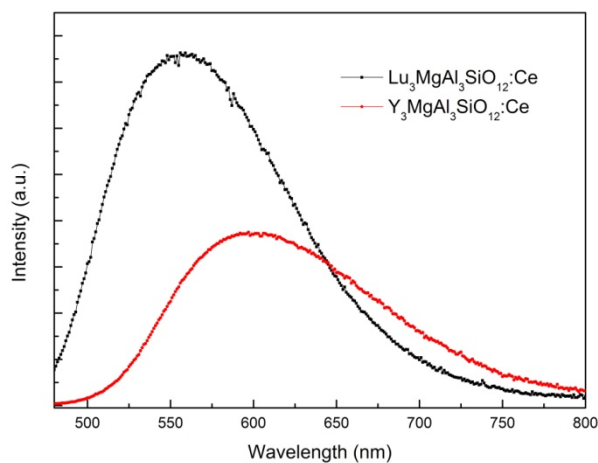


Figure S2 PL spectra of $\text{Lu}_3\text{MgAl}_3\text{SiO}_{12}:\text{Ce}$ and $\text{Y}_3\text{MgAl}_3\text{SiO}_{12}:\text{Ce}$ phosphors.

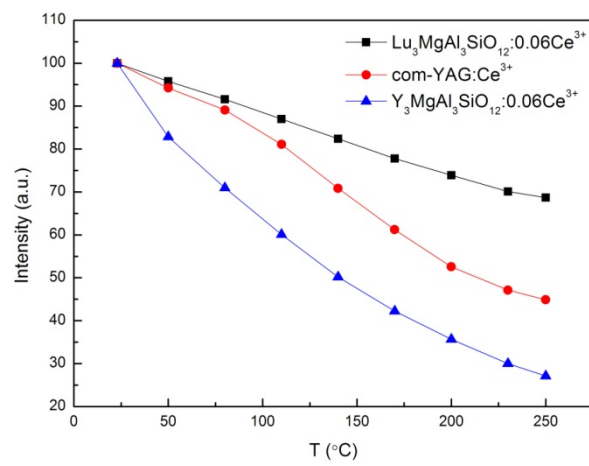


Figure S3 The brightness vs temperature for $\text{Lu}_3\text{MgAl}_3\text{SiO}_{12}:\text{Ce}$, $\text{Y}_3\text{MgAl}_3\text{SiO}_{12}:\text{Ce}$ and com-YAG:Ce phosphors.