Perspective on europium activated fine-grained metal molybdate phosphors for solid state illumination

Ashok Kumar,* and Jitendra Kumar

*email:ashokku@iitk.ac.in
Fig. S1 Energy level scheme of Eu$^{3+}$ ion and possible $^5\text{D}_0 \rightarrow ^7\text{F}_J$ (J = 0-6) transitions.
Fig. S2 (colour online) (a) Blue square showing CIE chromaticity coordinates of $^5\text{D}_0 \rightarrow ^7\text{F}_2$ transition (wavelength ~ 612 nm) in $\text{M}_{0.8}\text{MoO}_4:\text{Eu}^{3+}_{0.2}$ ($\text{M} = \text{Mg, Zn, Ca, Ni and Co}$) phosphors and (b) red circle showing white light emission with its CIE chromaticity coordinates as $x = 0.279$ and $y = 0.245$ for $\text{Co}_{0.8}\text{MoO}_4:\text{Eu}^{3+}_{0.2}$ phosphor evaluated by taking all emission peaks in the visible range (plotted using software from JK lamps [1]).

Reference: