Synthesis and improved photoluminescence of a novel red phosphor

LiSrGaF$_6$::Mn$^{4+}$ for application in warm WLEDs

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Figure S1: Commission International de l’Eclairage CIE chromaticity coordinates for LiSrGaF$_6$::Mn$^{4+}$ phosphor.
**Figure S2** Energy level and electron transitions schematic diagram of Mn$^{4+}$ in LiSrGaF$_6$ matrix.

**Figure S3** The relationship between log (x) versus log (I/x) in the phosphor LiSrGaF$_6$:Mn$^{4+}$. (Note: x is the ratio of K$_2$MnF$_6$/LiSrGaF$_6$)