

Supporting Information

Novel SrGd₂Al₂O₇:Mn⁴⁺,Nd³⁺,Yb³⁺ phosphors for c-Si solar cells

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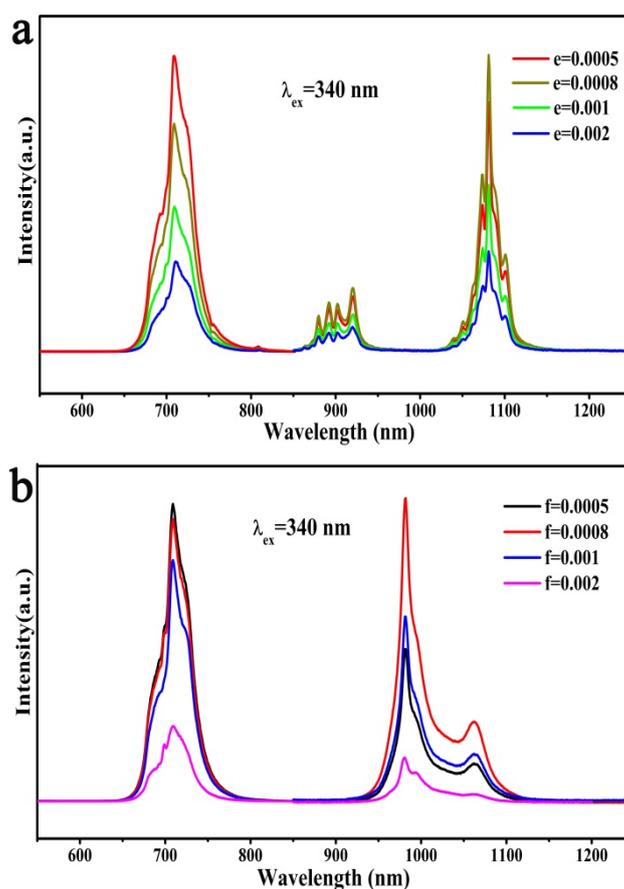


Figure S1. PL emission spectra of the different Mn⁴⁺ contents doped in the SGAs:eMn⁴⁺,0.02Nd³⁺(a) and SGAs:fMn⁴⁺,0.02Yb³⁺ (b).

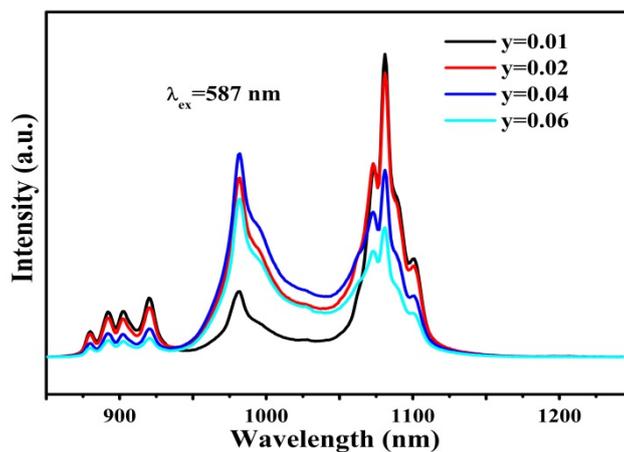


Figure S2. Variation of emission spectra of SGA:0.02Nd³⁺,yYb³⁺ samples excited at 587 nm.

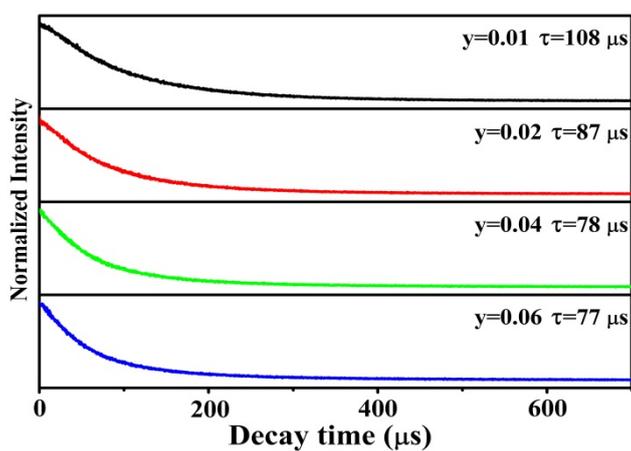


Figure S3. Decay curves ($\lambda_{ex} = 587$ nm, $\lambda_{em} = 1081$ nm) for Nd³⁺ emissions in SGA: 0.02Nd³⁺,yYb³⁺ ($y = 0.01-0.06$).

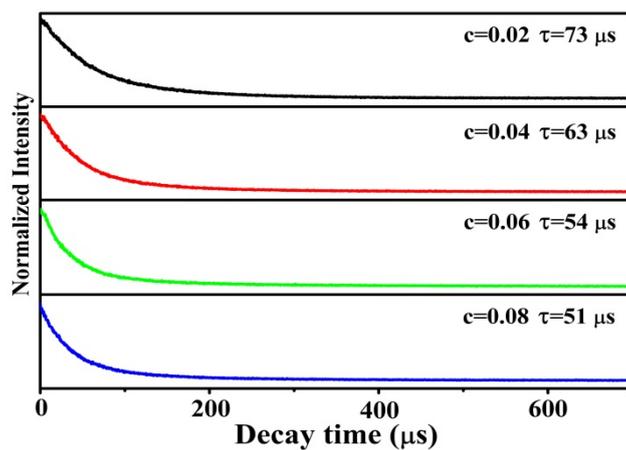


Figure S4. Decay curves ($\lambda_{\text{ex}} = 587 \text{ nm}$, $\lambda_{\text{em}} = 1081 \text{ nm}$) for Nd^{3+} emissions in SGA:0.0008 Mn^{4+} ,0.02 Nd^{3+} ,c Yb^{3+} ($c = 0.02$ -0.08).