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Figure S1 Emission spectrum of  $Sr_{2.97}La(PO_4)_3:0.03Eu^{2+}$  (a) and excitation spectrum of  $Sr_3La_{0.93}(PO_4)_3:0.07Tb^{3+}$  (b). Inset (b): Emission intensities of  $Sr_3La_{1-v}(PO_4)_3:yTb^{3+}$  as a function of  $Tb^{3+}$  concentrations (y=0.001-0.10)



Figure S2 Emission intensities of  $Eu^{2+}$  and  $Tb^{3+}$  in  $Sr_{2.97}La_{1-y}(PO_4)_3:0.03Eu^{2+}$ ,  $yTb^{3+}$  (y=0-0.10) with different  $Tb^{3+}$  concentrations.