

Electronic Supplementary Information

Luminescence Study of Self-activated and Rare earth Activated $\text{Sr}_3\text{La}(\text{VO}_4)_3$ Phosphor Potentially Applicable in W-LEDs

Jiangcong Zhou,^a Feng Huang,^{*ab} Ju Xu,^{ab} Hui Chen^a and Yuansheng Wang^{*ab}

Figure S1—S4

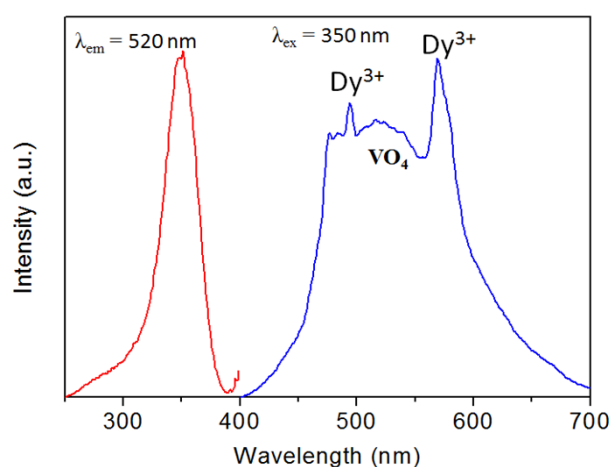


Figure S1. PL and PLE spectra of $\text{Sr}_3\text{La}_{0.95}\text{Dy}_{0.05}(\text{VO}_4)_3$.

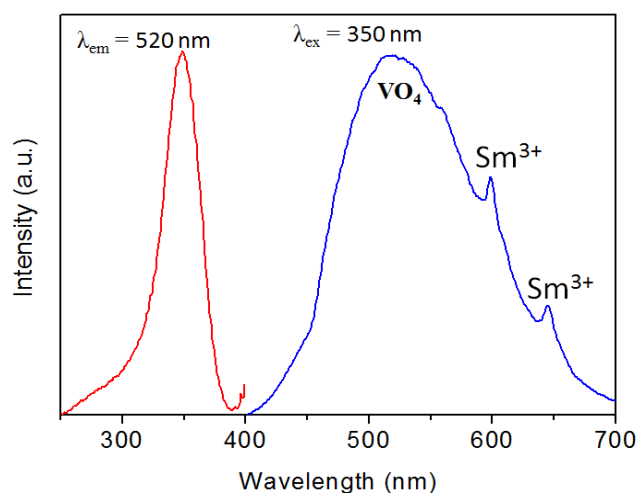


Figure S2. PL and PLE spectra of $\text{Sr}_3\text{La}_{0.95}\text{Sm}_{0.05}(\text{VO}_4)_3$.

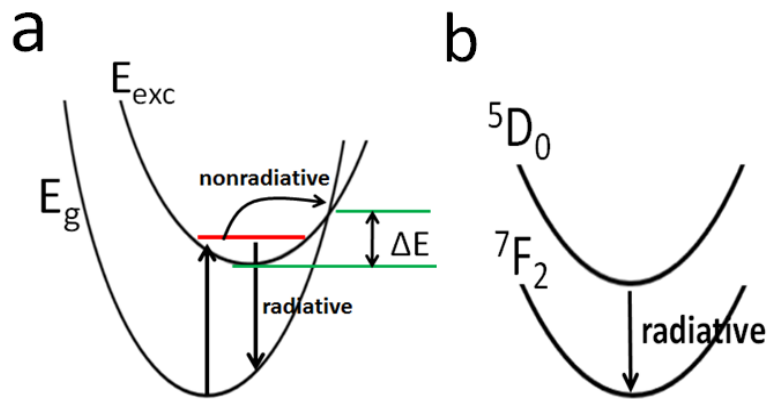


Figure S3. Schematic diagrams of configuration coordinate for (a) the excitation state and ground state of $(VO_4)^{3-}$, and (b) the 5D_0 and 7F_2 states of Eu^{3+} .

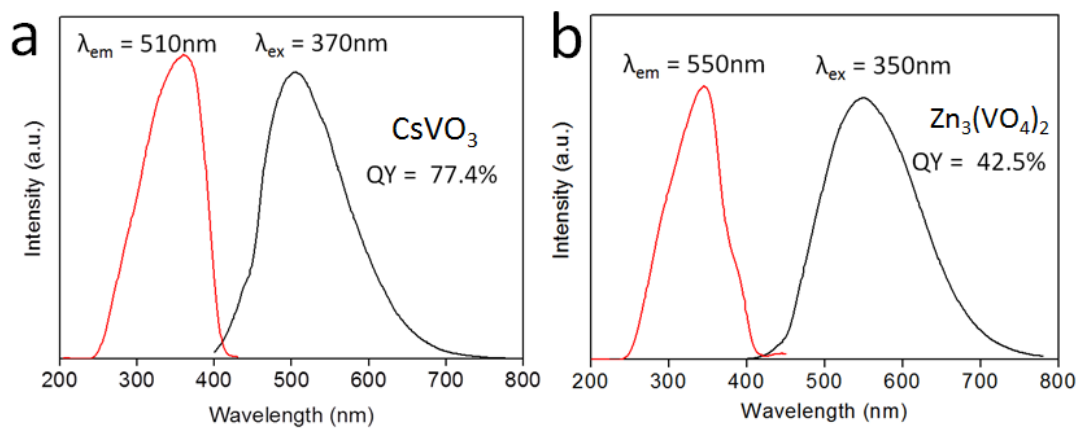


Figure S4. PLE and PL spectra of the prepared phosphors: (a) $CsVO_3$; (b) $Zn_3(VO_4)_2$.