

**Photon avalanche assisted upconversion via customizing green emission**

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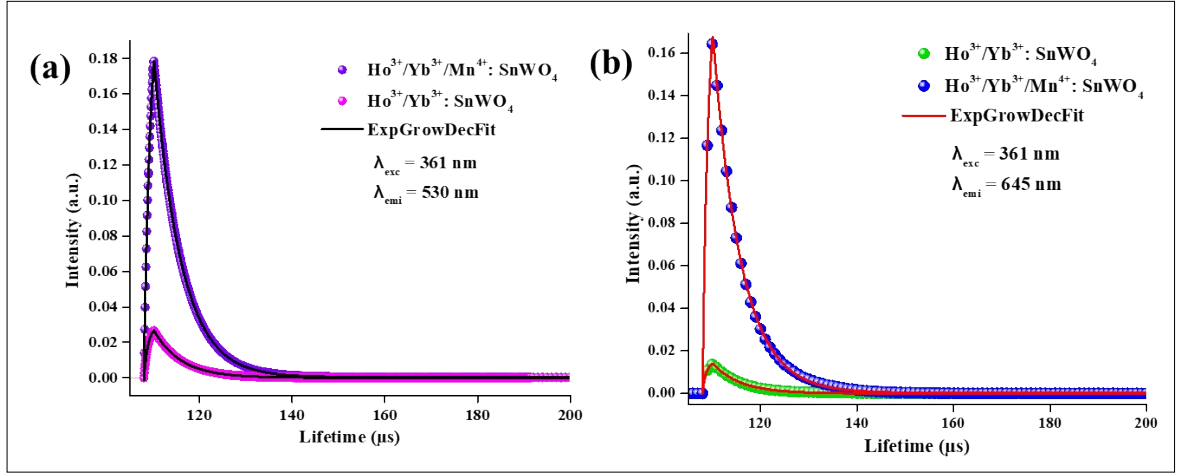


Fig.S. Decay curves of (a)  ${}^5\text{F}_4, {}^5\text{S}_2 \rightarrow {}^5\text{I}_8$  (530 nm) and (b)  ${}^5\text{F}_5 \rightarrow {}^5\text{I}_8$  (645 nm) emissions upon 361 nm excitation of  $\text{Ho}^{3+}/\text{Yb}^{3+}$  and  $\text{Ho}^{3+}/\text{Yb}^{3+}/\text{Mn}^{4+}:\text{SnWO}_4$  phosphors.