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Supplementary Information

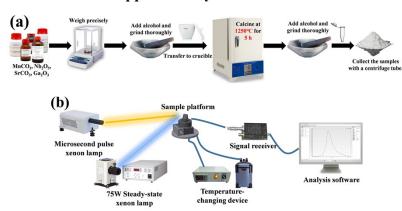


Fig. S1. (a) The fabrication process of the red emitting Sr₄GaNbO₈:Mn⁴⁺ phosphors. (b)Schematic diagram of the experimental setup used to study the luminescent lifetime, excitation and emission of the sample.

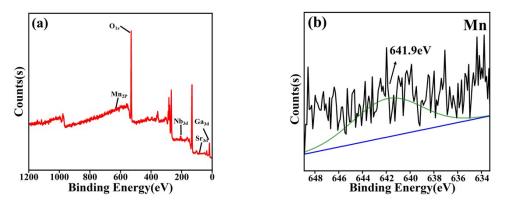


Fig. S2. (a) XPS survey scanning spectra of Sr₄GaNbO₈:0.02Mn⁴⁺ phosphor. (b) high-resolution XPS spectra of Mn in Sr₄GaNbO₈:0.02Mn⁴⁺ phosphor.