

Supporting information

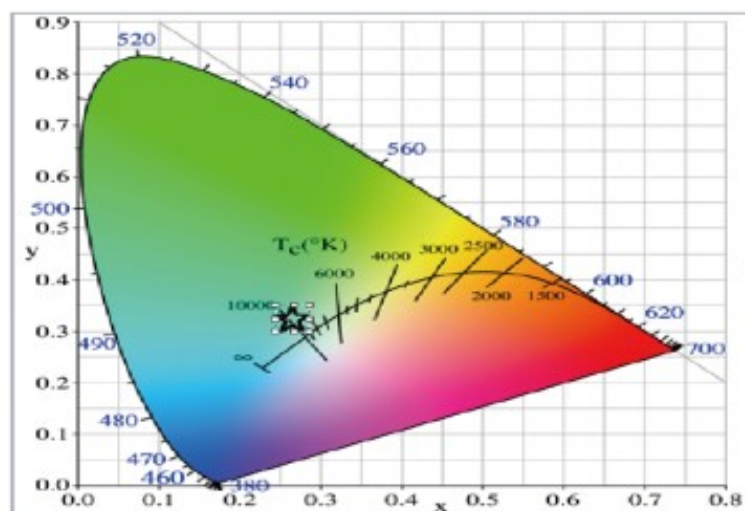


Figure S1 CIE color coordinate change of PL.

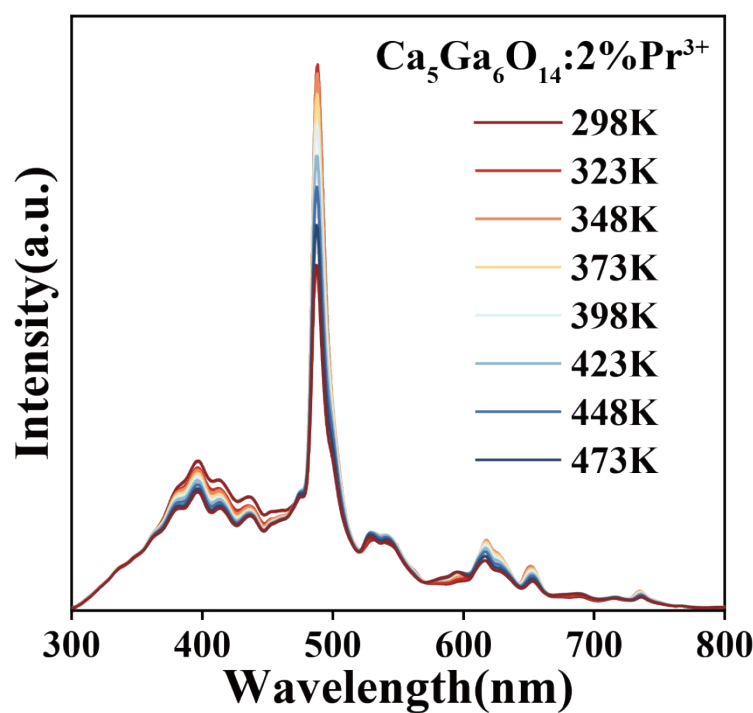


Figure S2 The PL spectra of $\text{Ca}_5\text{Ga}_6\text{O}_{14}: 2\%\text{Pr}^{3+}$ with different temperatures.

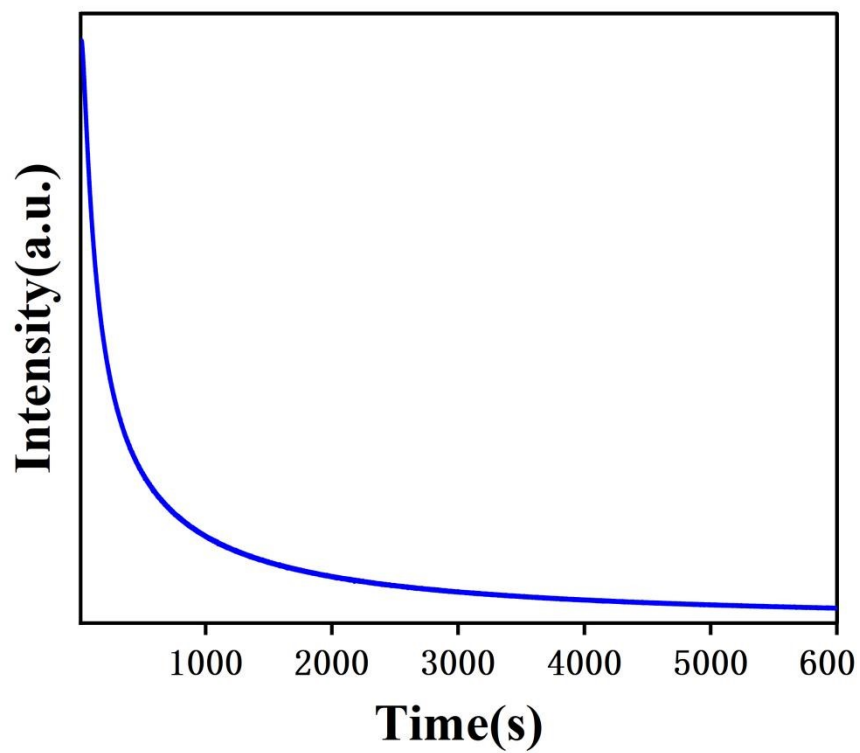


Figure S3 Afterglow decay curve of $\text{Ca}_{4.98}\text{Ga}_6\text{O}_{14}:2\%\text{Pr}^{3+}$.

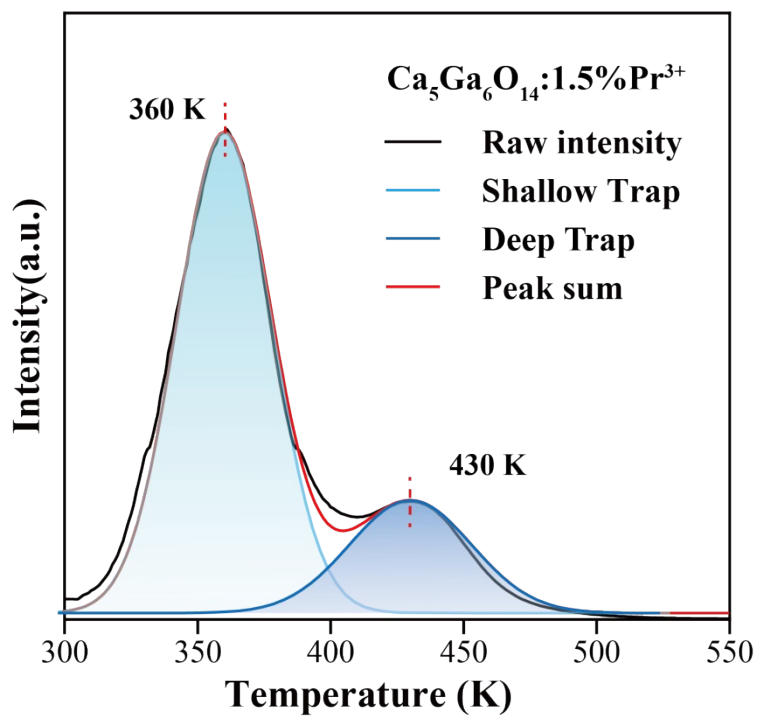


Figure S4 Gaussian formula fitting results of $\text{Ca}_5\text{Ga}_6\text{O}_{14}:1.5\%\text{Pr}^{3+}$ phosphor.

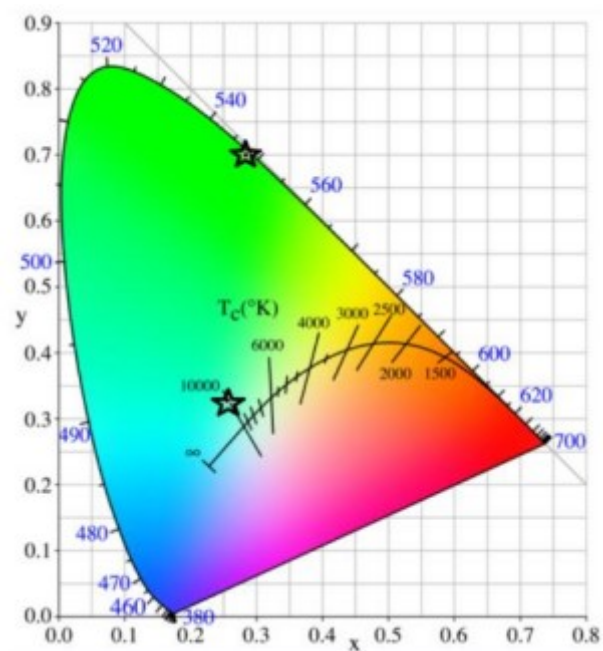


Figure S5 CIE color coordinate change of $\text{Ca}_5\text{Ga}_6\text{O}_{14}:\text{Pr}^{3+}, \text{Er}^{3+}$.

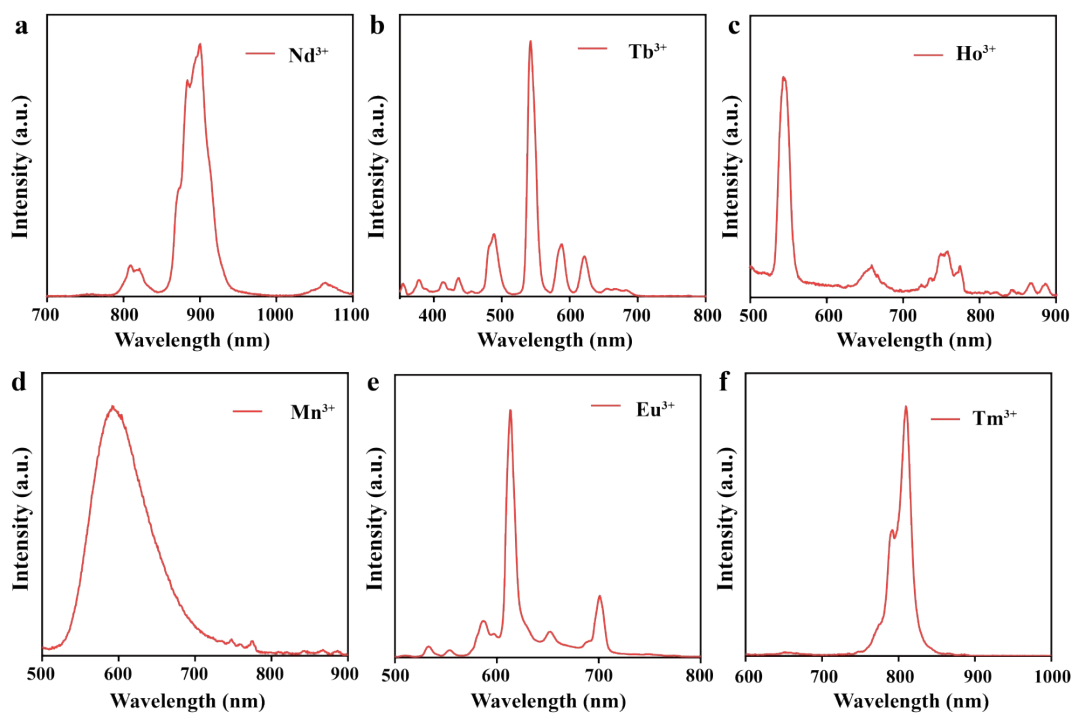


Figure S6 ML spectra of $\text{Ca}_5\text{Ga}_6\text{O}_{14}$ doped (a) Nd^{3+} (b) Tb^{3+} (c) Ho^{3+} (d) Mn^{2+} (e) Eu^{3+} (f) Tm^{3+} .

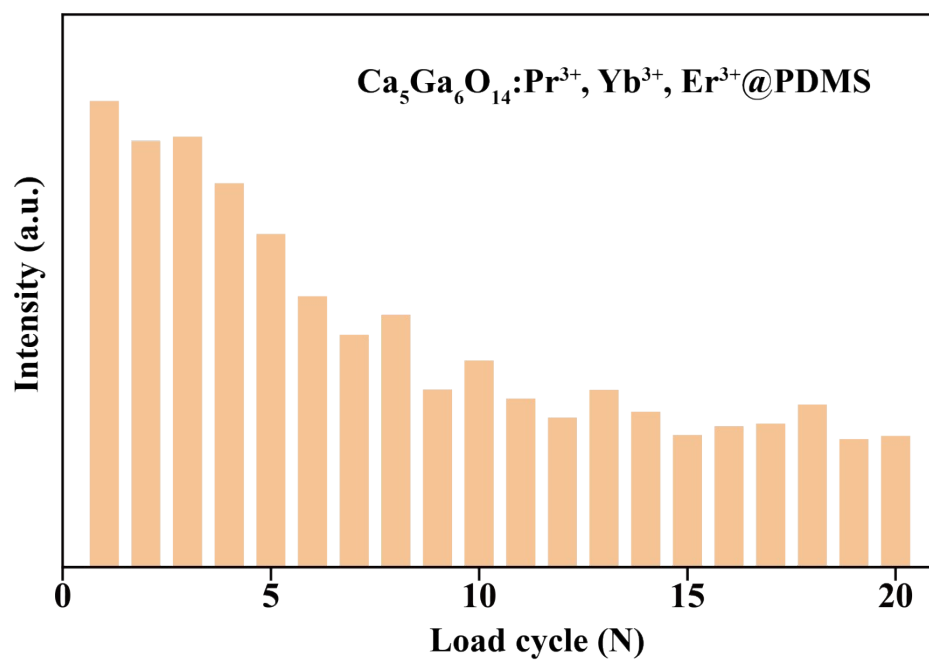


Figure S7 Cycle tests of Ca₅Ga₆O₁₄:Pr³⁺, Yb³⁺, Er³⁺@PDMS elastomers .