

Supporting Information

Preparation and optical properties of Eu²⁺-Pr³⁺/Nd³⁺ co-doped CaAl₂O₄ long afterglow luminescent materials

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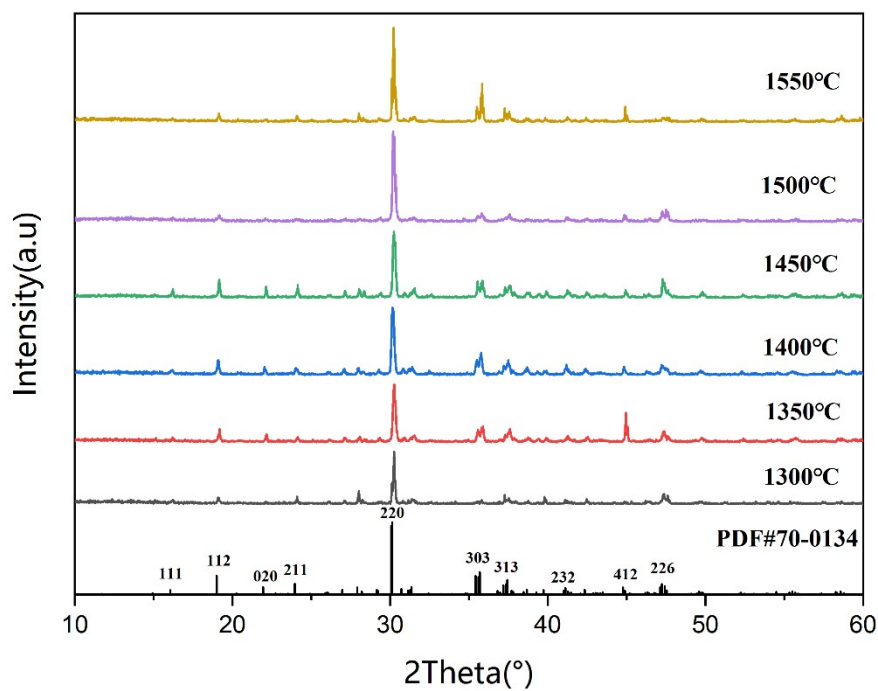


Fig. S1. XRD plots of samples at different calcination temperatures

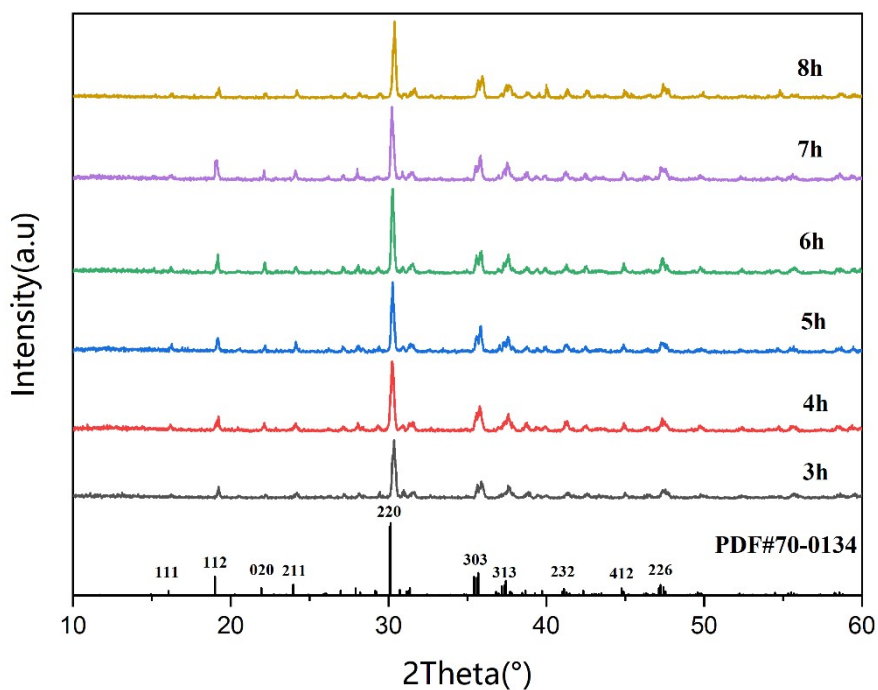


Fig. S2. XRD plots of samples at different calcination times

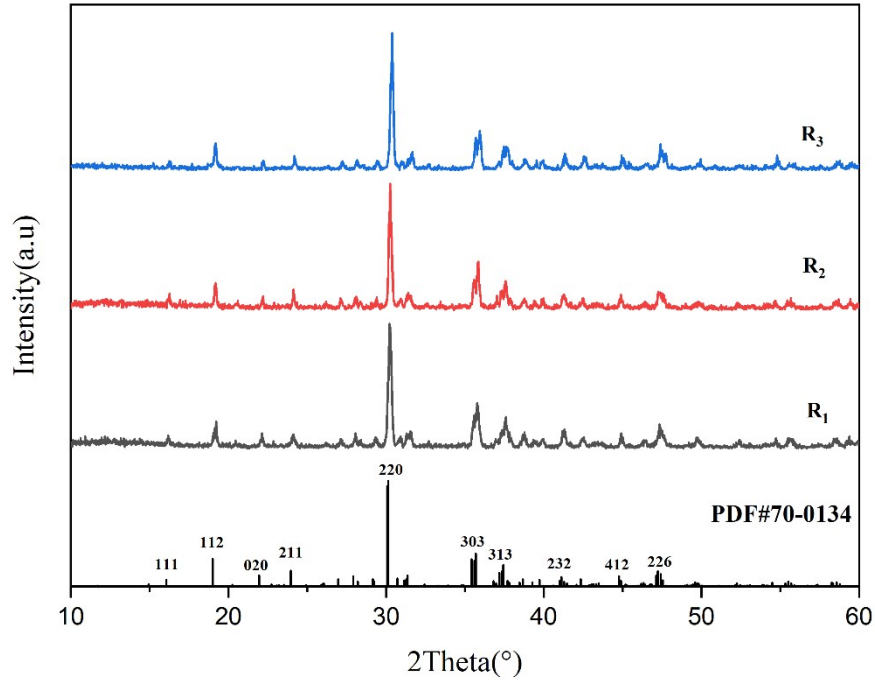


Fig. S3. XRD diagram of the target products R₁, R₂ and R₃

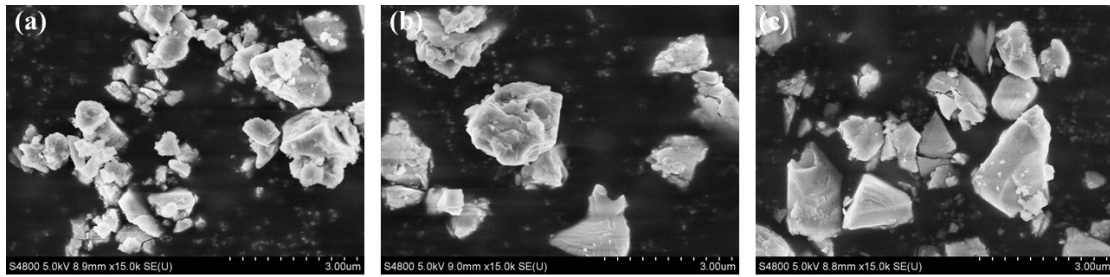


Fig. S4. SEM images of the samples (a) R₁; (b) R₂; (c) R₃

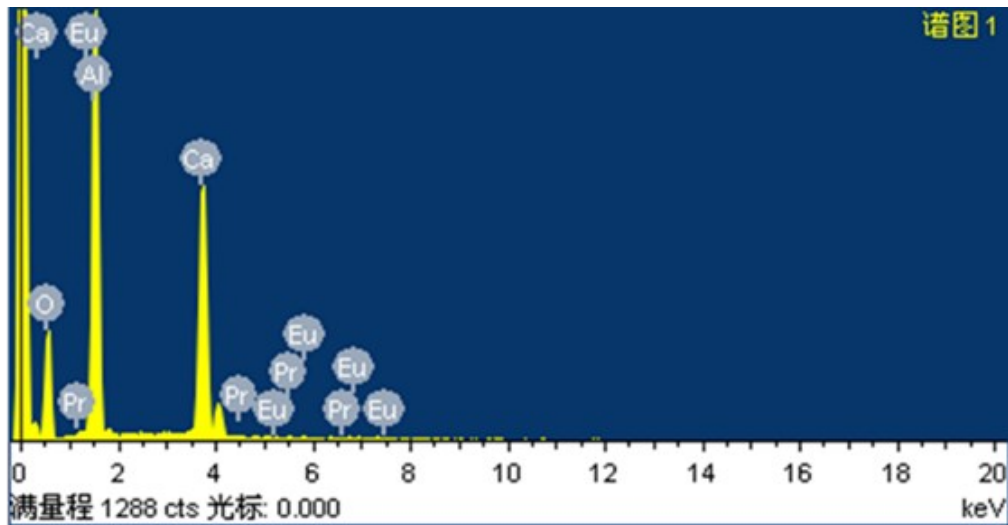


Fig. S5. EDS plot of sample R₁

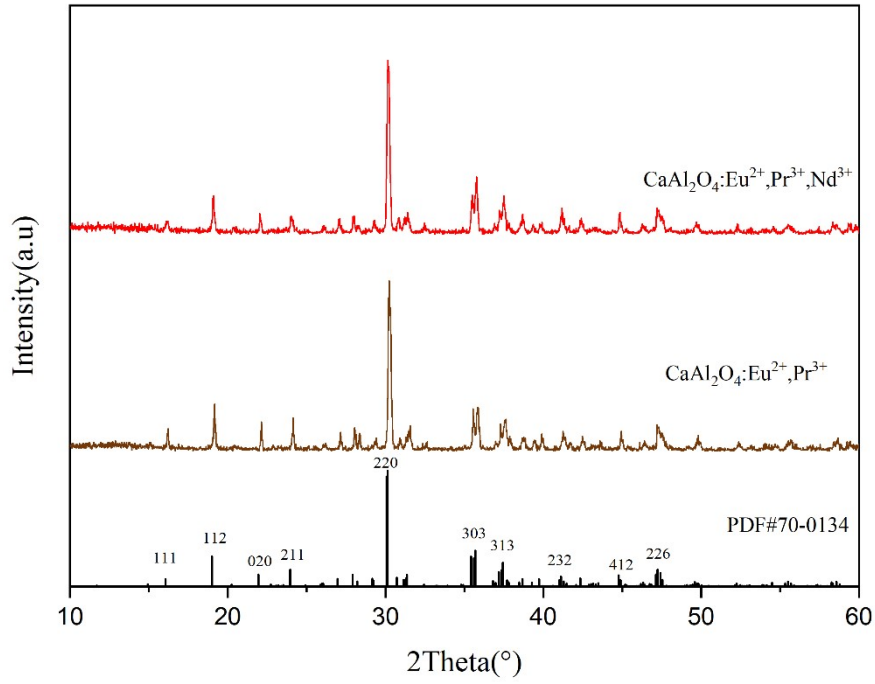


Fig. S6. XRD diagram of the samples

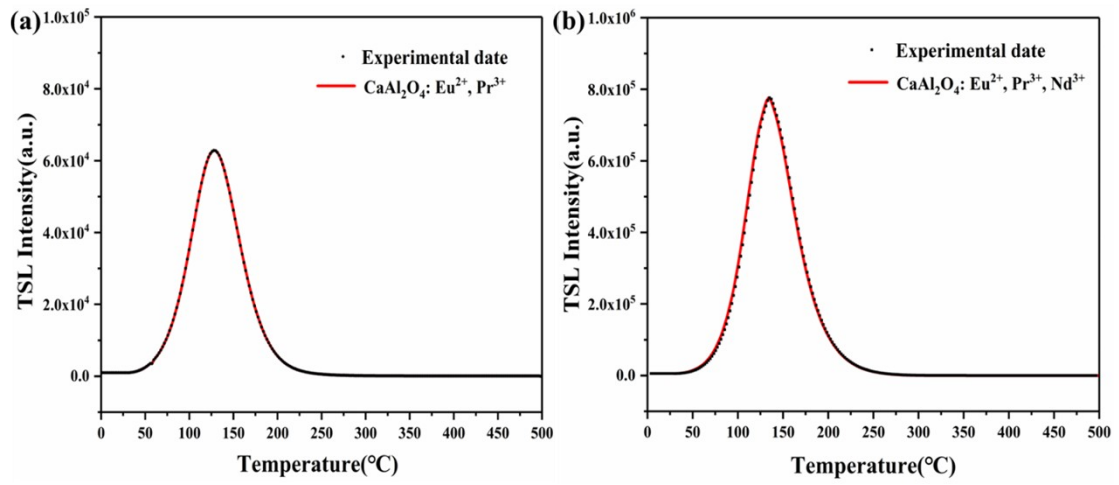


Fig. S7. TSL curves of samples (a) $\text{CaAl}_2\text{O}_4: \text{Eu}^{2+}, \text{Pr}^{3+}$; (b) $\text{CaAl}_2\text{O}_4: \text{Eu}^{2+}, \text{Pr}^{3+}, \text{Nd}^{3+}$, red solid line is the fitted curve