

Synthesis of $\text{Zn}_2\text{SiO}_4\text{:Mn}^{2+}$ by Homogeneous Precipitation using Propylene Glycol-Modified Silane

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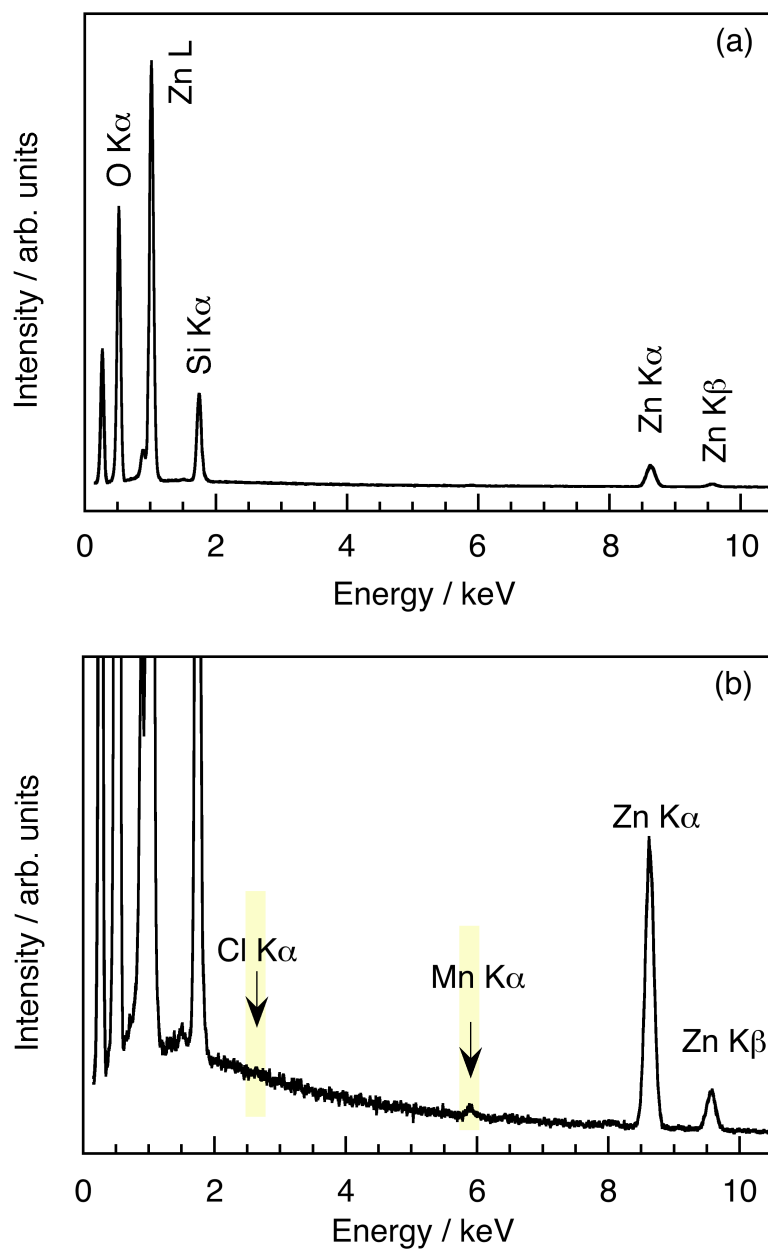


Fig. S1 Energy dispersive X-ray spectrum of (a) a precursor prepared by the HP method, (b) magnified spectrum of (a).

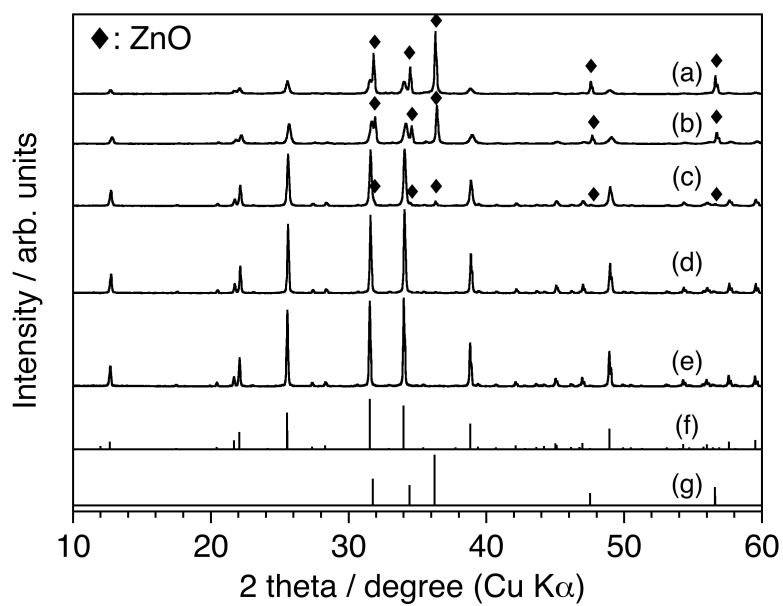
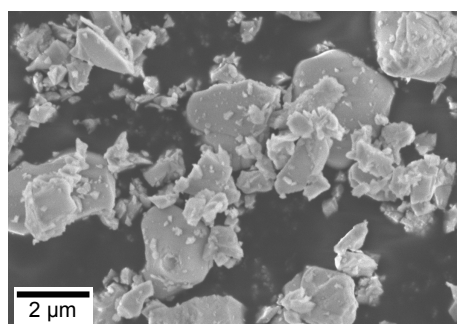
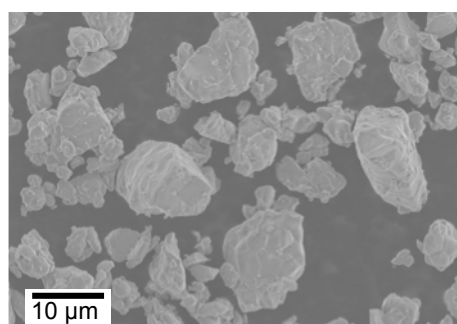


Fig. S2 XRD patterns of $\text{Zn}_2\text{SiO}_4\text{:Mn}$ prepared by the SSR method at various calcination temperature, (a) 1073, (b) 1173, (c) 1273, (d) 1373 and (e) 1573 K, and the standard diffraction patterns of Zn_2SiO_4 (PDF# 37-1485) and ZnO (PDF# 36-1451).



(a)



(b)

Fig. S3 SEM images of commercial Zn₂SiO₄:Mn²⁺ phosphors, (a) GYL-D1 and (b) G-29.