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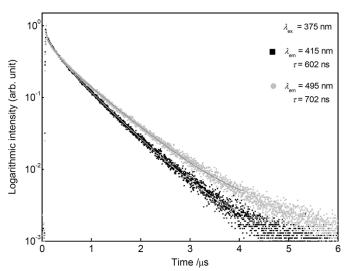


Fig. S1 PLD curves of $Ba_{0.99}Eu_{0.01}Ca_2Si_3O_9$ monitored at 415 and 495 nm.

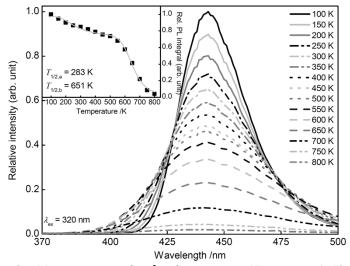


Fig. S2 PL spectra of Eu^{2+} of $Ba_{0.99}Eu_{0.01}(Ca_{0.90}Mn_{0.10})_2Si_3O_9$ from 100 to 800 K and PL integral in dependence of temperature.

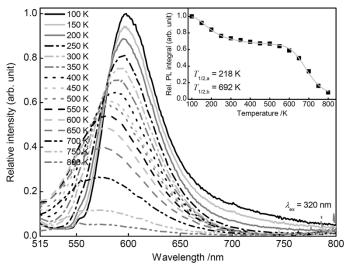


Fig. S3 PL spectra of Mn^{2+} of $Ba_{0.99}Eu_{0.01}(Ca_{0.90}Mn_{0.10})_2Si_3O_9$ from 100 to 800 K and PL integral in dependence of temperature.

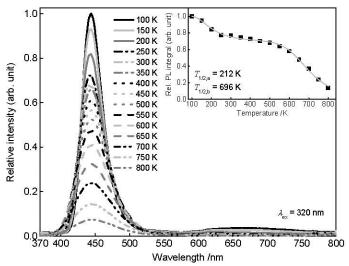


Fig. S4 PL spectra of $Ba_{0.99}Eu_{0.01}Ca_2Si_3O_9$ from 100 to 800 K and PL integral in dependence of temperature.

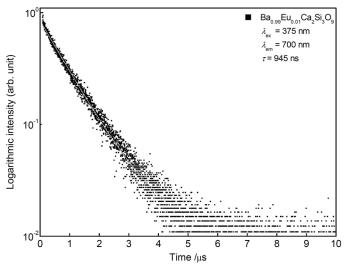


Fig. S5 PLD curve of $Ba_{0.99}Eu_{0.01}Ca_2Si_3O_9$ monitored at $\lambda_{em}=700$ nm and T=77 K.

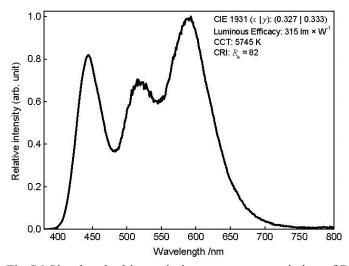


Fig S6 Simulated white emission spectrum consisting of $Ba_{0.99}Eu_{0.01}Ca(_{0.80}Mn_{0.20})_2Si_3O_9$ and $(Ba_{0.49}Sr_{0.49}Eu_{0.02})_2SiO_4$.