

Supporting Information

Luminescence properties of a green-emitting mechanoluminescent phosphor $\text{CaSrGa}_4\text{O}_8: x\text{Tb}^{3+}$ without pre-excitation

Rui Shi^{a,b}, Wei Liu^{a,c}, Lin Li^{a,b}, Huan Li^{a,b}, Zhijun Zhang^{a,b}, Guanghui Rao^{a,b,c,*}, Jingtai Zhao^{a,b,c,*}
^a School of Materials Science and Engineering, Guilin University of Electronic Technology, Guilin 541004, China
^b Guangxi Key Laboratory of Information Materials, Guilin University of Electronic Technology, Guilin 541004, China
^c School of Mechanical and Electrical Engineering, Guilin University of Electronic Technology, Guilin 541004, China
*Corresponding author: Guanghui Rao Email: rgh@guet.edu.cn
Jingtai Zhao Email: jtzhao@guet.edu.cn

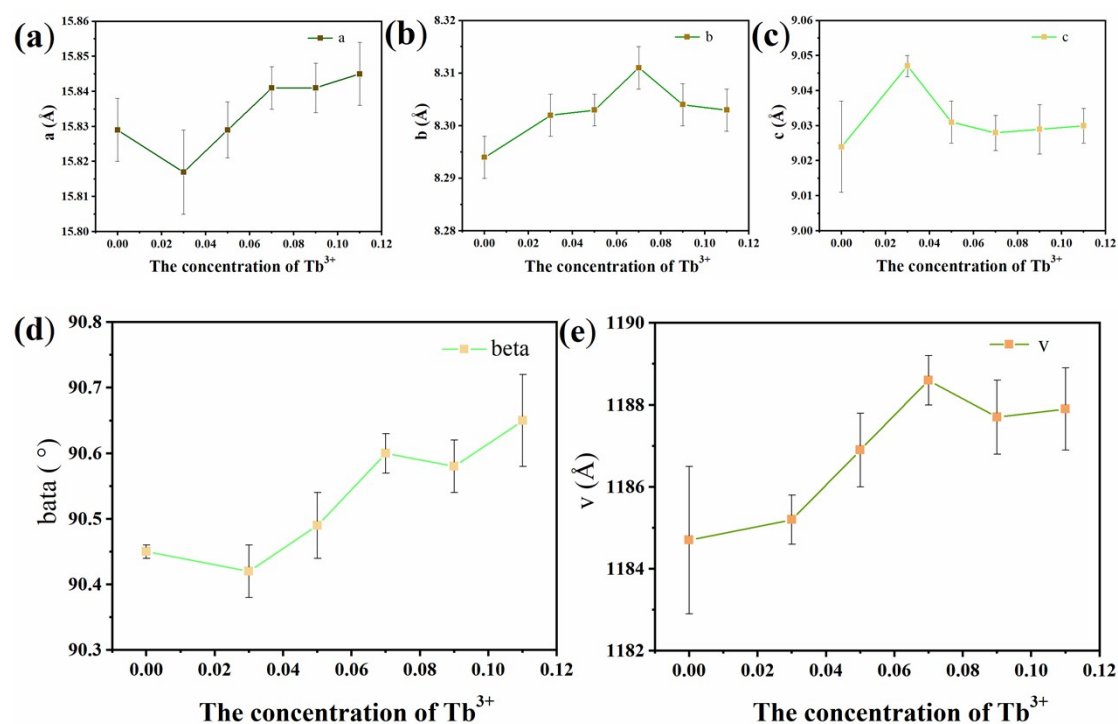


Fig. S1 (a-e) Cell parameters ($a/b/c/\beta/v$) of refinement with different concentrations of Tb^{3+} ions doping.

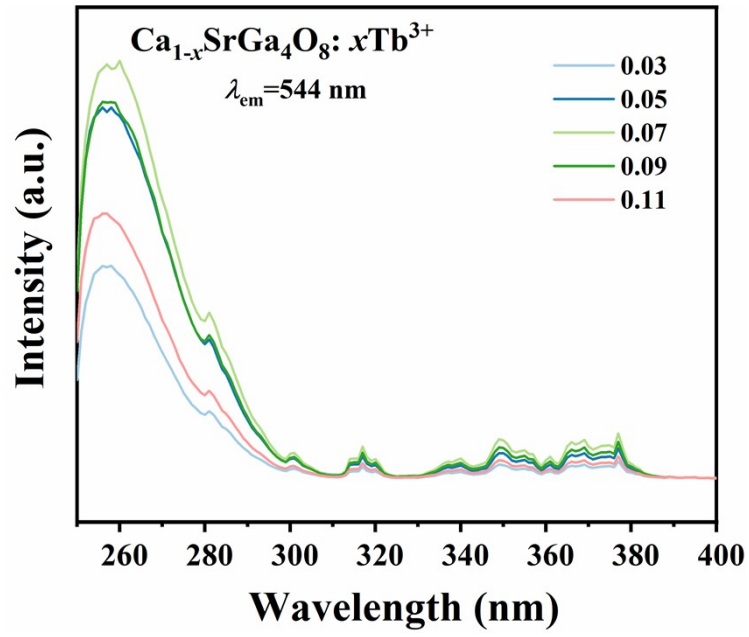


Fig. S2 Excitation spectra of $\text{Ca}_{1-x}\text{SrGa}_4\text{O}_8:x\text{Tb}^{3+}$ ($x = 0.03, 0.05, 0.07, 0.09$ and 0.11) monitored at 544 nm