

## Long Phosphorescent $\text{Ca}_2\text{SnO}_4$ with minuscule rare earth dopant concentration

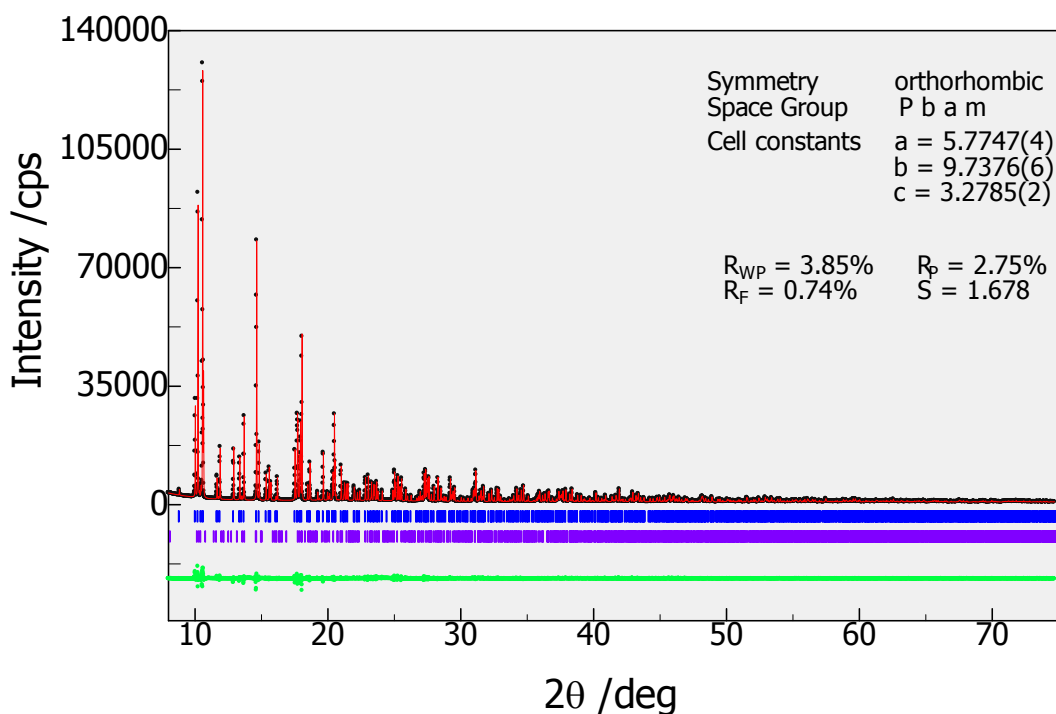
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**Fig S1.** Rietveld-refinement patterns for the synchrotron powder diffraction data of  $\text{Ca}_2\text{SnO}_4$  at room temperature. Observed diffraction intensities are represented by plus (+) marks and the calculated pattern by solid line. Differences between the observed and calculated intensities are given on bottom. Short vertical marks below the observed and calculated patterns indicate the position of allowed Bragg reflections.

The synchrotron radiation experiments were performed at the BL02B2 of Spring-8, JASRI, Japan