

Supporting Information

Splendid four-mode optical thermometry design based on the thermochromic $\text{Cs}_3\text{GdGe}_3\text{O}_9:\text{Er}^{3+}$ phosphors

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Table S1 Rietveld XRD refinement data of $\text{CGGO}:0.9\text{Er}^{3+}$.

Sample	Standard data	CCGO:0.9Er ³⁺
Space group	Pna21(33) - orthorhombic	Pna21(33) - orthorhombic
$\alpha=\beta=\gamma$	90°	90°
<i>a</i>	13.8827 Å	13.7902 Å
<i>b</i>	7.1594 Å	7.1018 Å
<i>c</i>	12.7676 Å	12.7181 Å
<i>V</i>	1268.99 Å ³	1245.57 Å ³
χ^2	/	0.56
<i>R</i> _{wp}	/	8.74%
<i>R</i> _p	/	5.68%

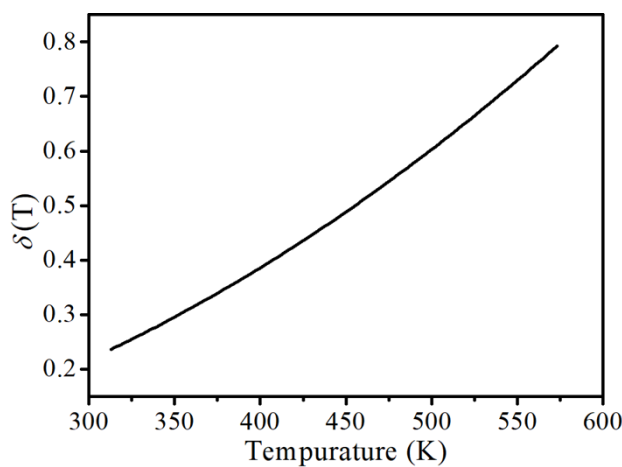


Fig. S1 Temperature resolution of $\text{CGGO}:0.9\text{Er}^{3+}$.