

## Electronic Supplementary Information (ESI)

### **Broadband near infrared persistent luminescence in Ni<sup>2+</sup>-doped transparent glass ceramic ZnGa<sub>2</sub>O<sub>4</sub>†**

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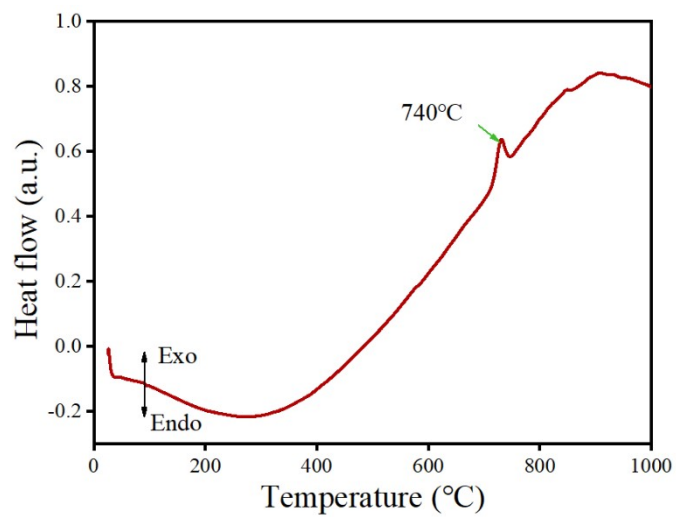
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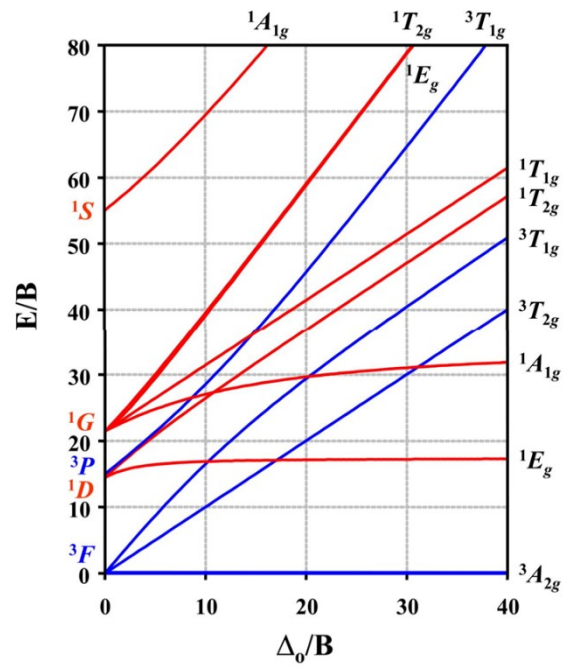
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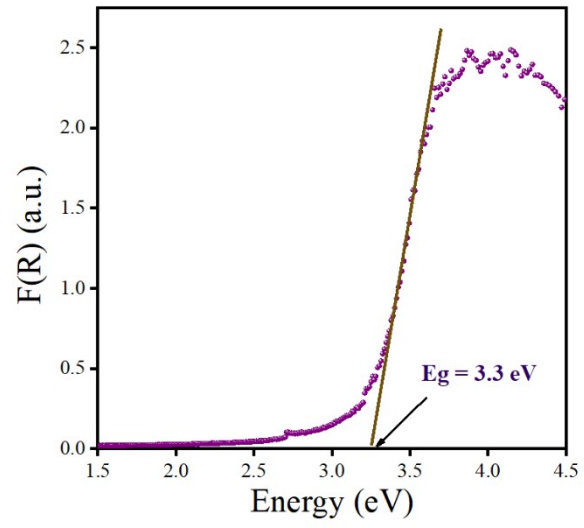
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**Fig. S1.** DSC trace of ZnGa<sub>2</sub>O<sub>4</sub>:0.05Ni<sup>2+</sup> PG.



**Fig. S2.** Tanabe-Sugano diagram in which the straight lines indicate the crystal field of Ni<sup>2+</sup> in the ZnGa<sub>2</sub>O<sub>4</sub> host.



**Fig. S3.** The calculated bandgap of ZnGa<sub>2</sub>O<sub>4</sub> host.