

Supporting Information

Transparent perovskite-based nanoceramics elaborated from full glass crystallization

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Supporting Information

Supporting note 1: X-ray powder diffraction (XRPD) pattern AGd26 glass sample

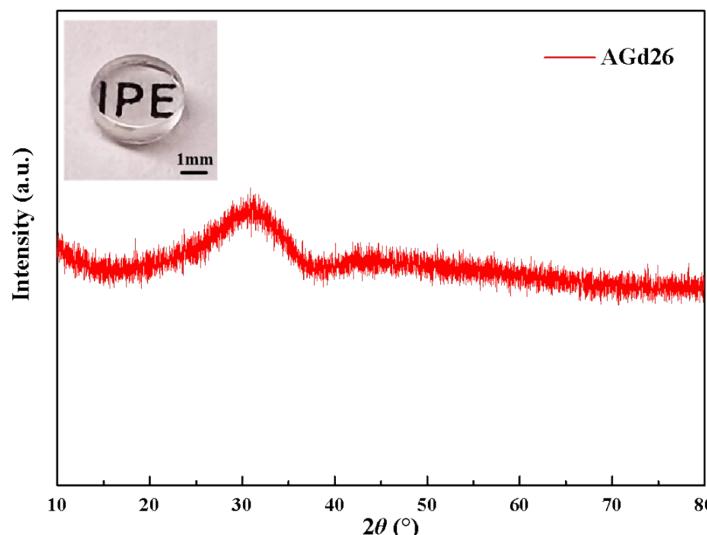


Figure S1. X-ray powder diffraction (XRPD) pattern of AGd26 glass sample.



Supporting note 2: DSC curve of AGd26 glass sample

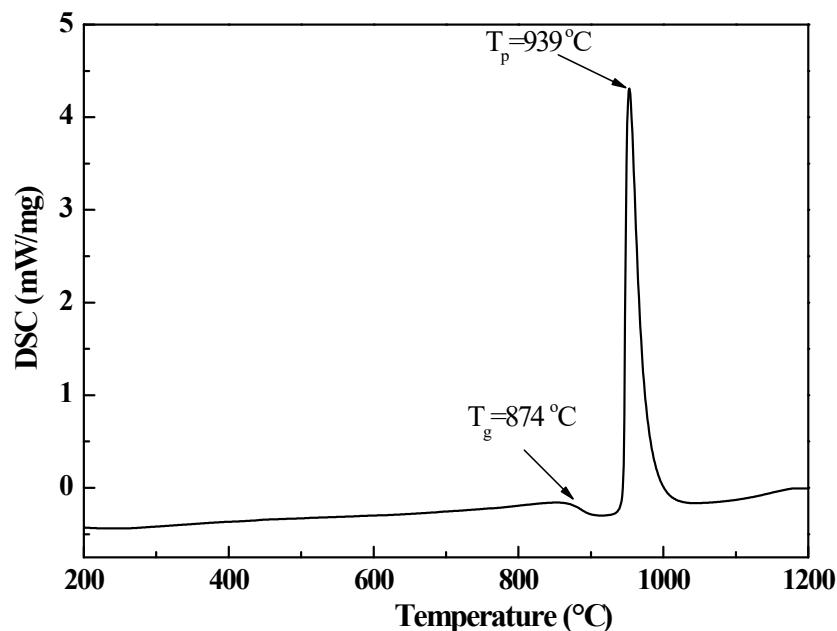


Figure S2. DSC curve of AGd26 glass sample (10 °C/min).

Supporting note 3: Backscattered SEM images of transparent ceramics

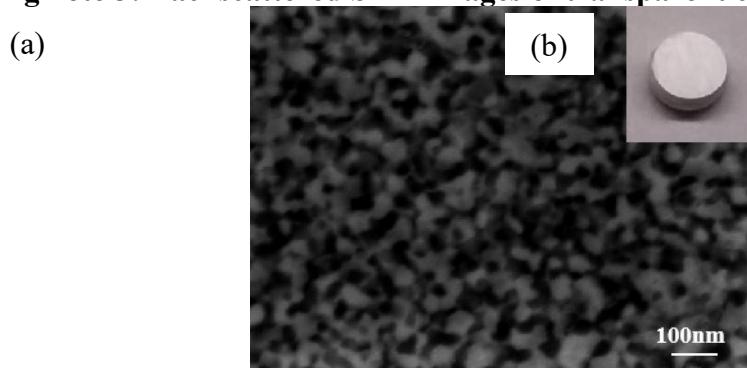


Figure S3. Backscattered SEM images of transparent ceramics from the crystallization of AGd26 bulk glasses at (a) 1000 °C and (b) 1200 °C for 2 h.



Supporting note 4: In-line transmittance spectra of the Tb^{3+} doped $\text{GdAP-Al}_2\text{O}_3$ nanoceramics

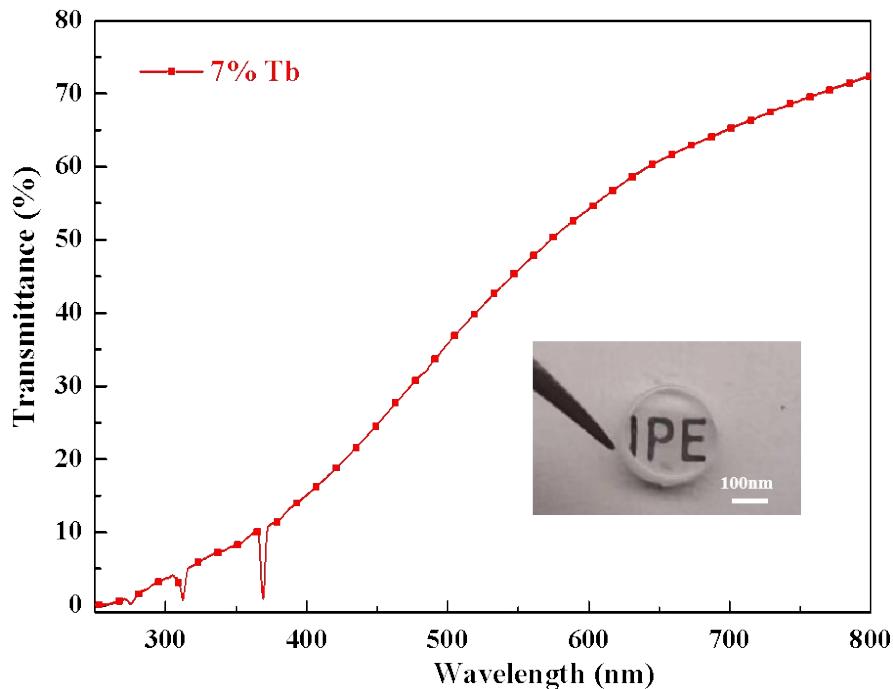


Figure S4. In-line transmittance spectra of the Tb^{3+} doped $\text{GdAP-Al}_2\text{O}_3$ nanoceramics (7 at% Tb^{3+}). A photograph of the sample is embedded.

Supporting note 5: PL spectra of $\text{Tb:GdAP-Al}_2\text{O}_3$ perovskite nanocrystalline ceramics

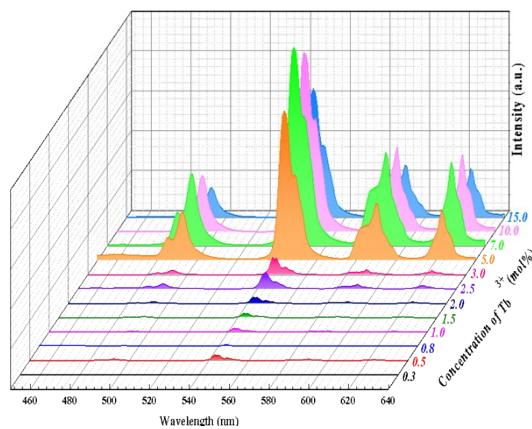


Figure S5. PL spectra of $\text{Tb:GdAP-Al}_2\text{O}_3$ perovskite nanocrystalline ceramics with different Tb^{3+} contents ($\lambda_{\text{ex}}=369$ nm).