

Solvothermal syntheses of lanthanide thiogermanates displaying three new structural moieties

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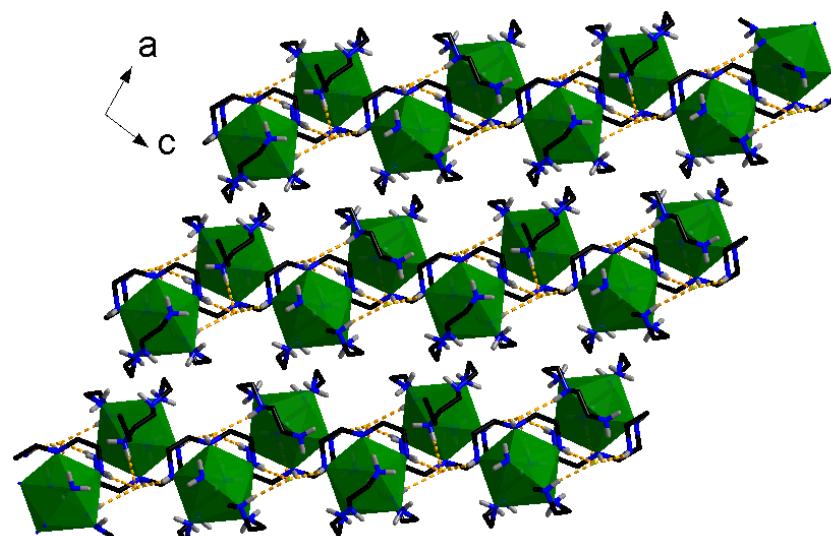


Fig. S1 The stacking mode for the layers in **Ia**.

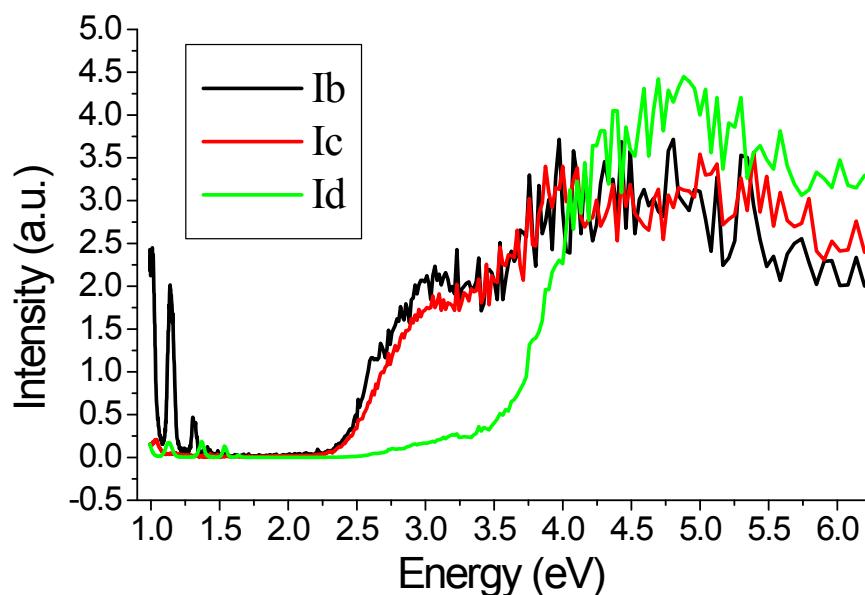


Fig. S2 The solid-state UV-vis absorption spectra of **Ib-d**.

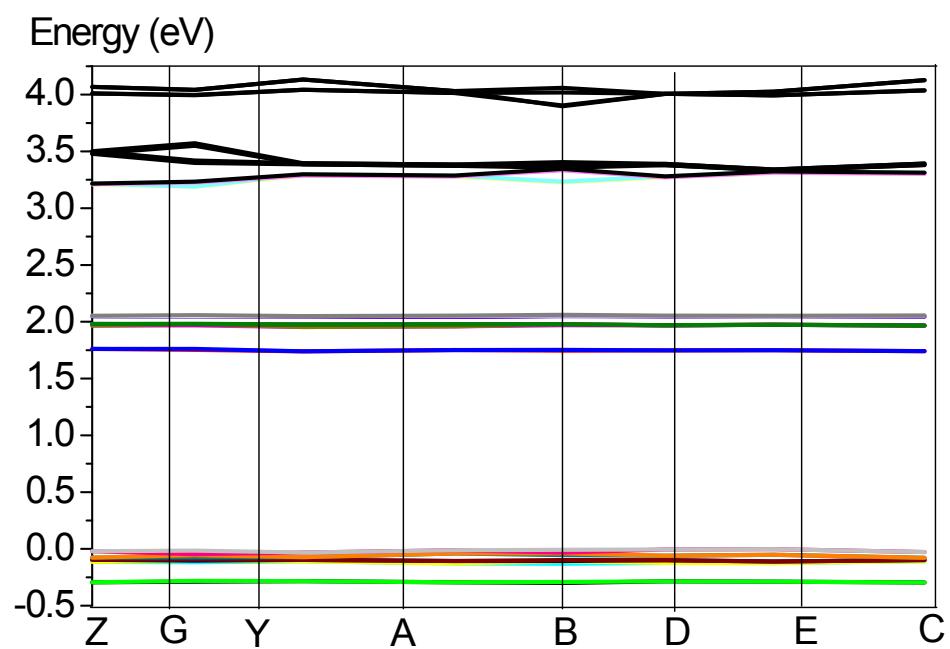
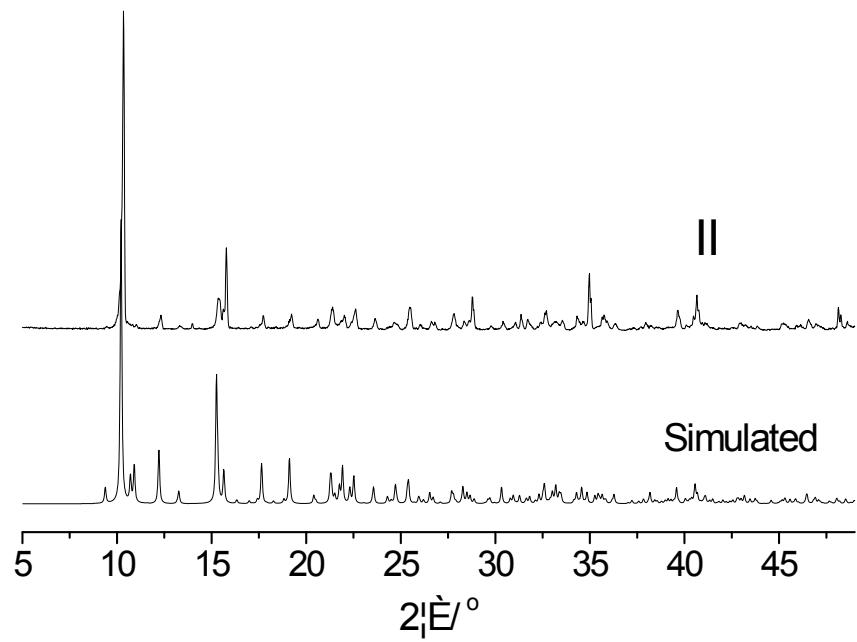


Fig. S3 Calculated band structure of **III**, the Fermi level is set at 0.0 eV.



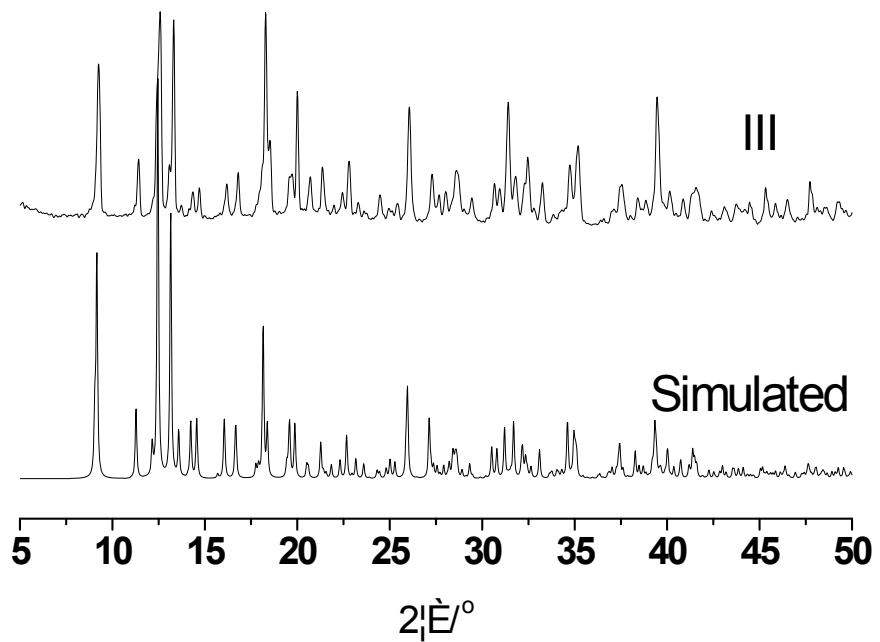


Fig. S4 Simulated and experimental powder XRD patterns of **II** and **III**.