

Supporting Information for

**A series of lanthanoid selenidoantimonates(V): the rare examples of
lanthanoid selenidoantimonates based on dinuclear lanthanide
complexes**

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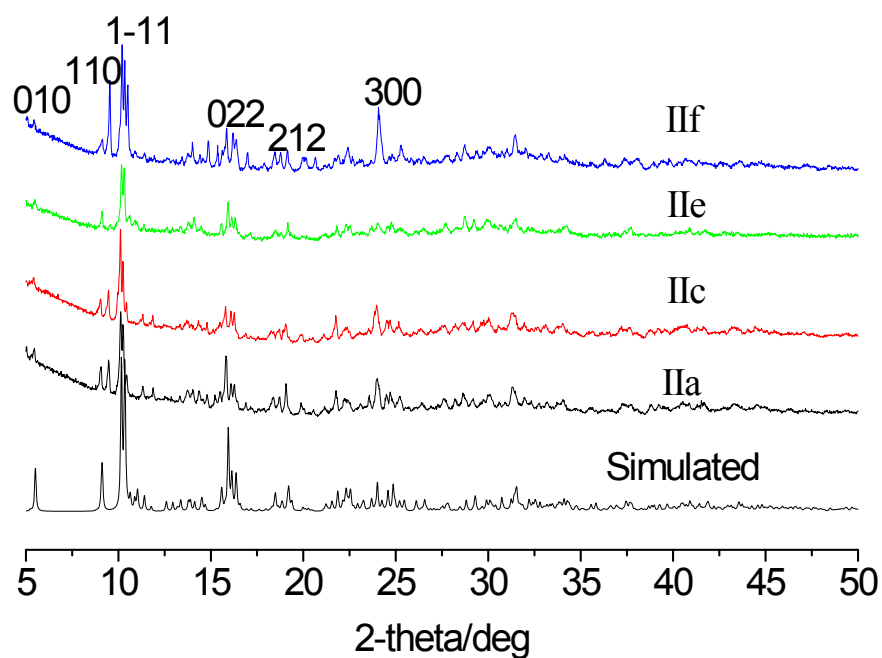
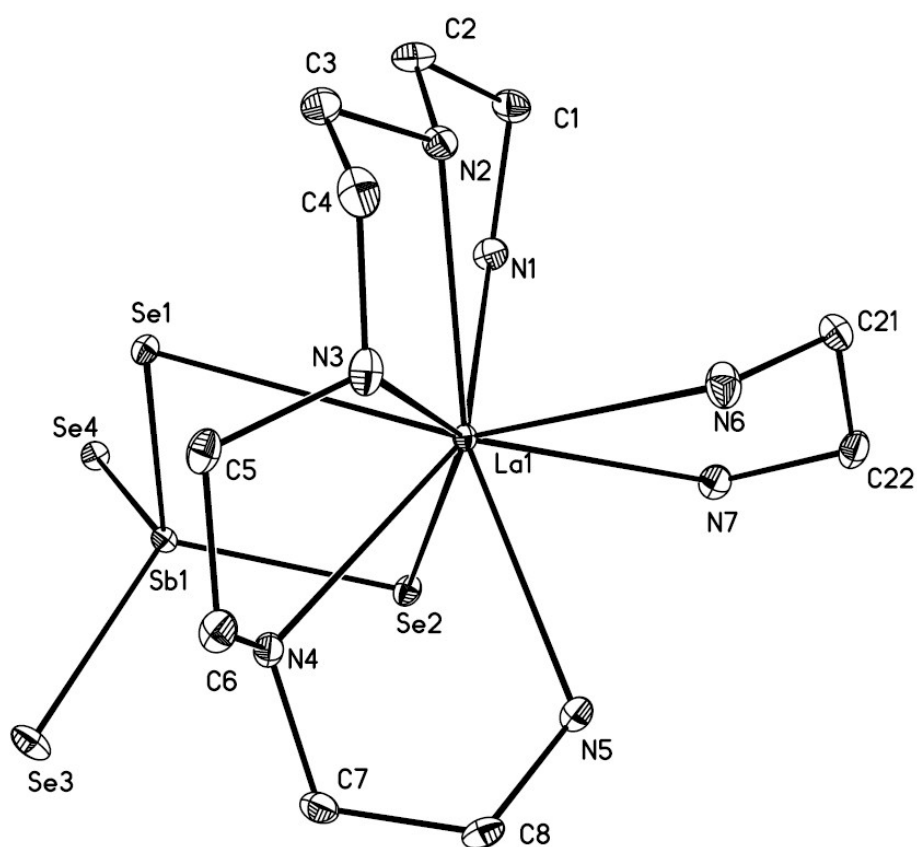
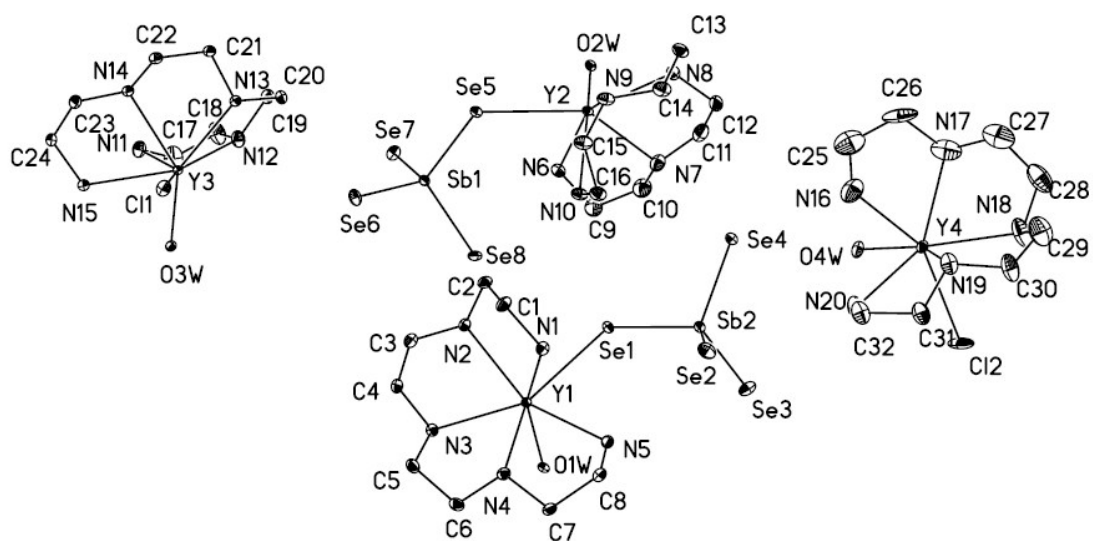


Figure S1 Simulated and experimental powder XRD patterns of **IIa**, **IIc**, **IIe** and **II f**.



(a)

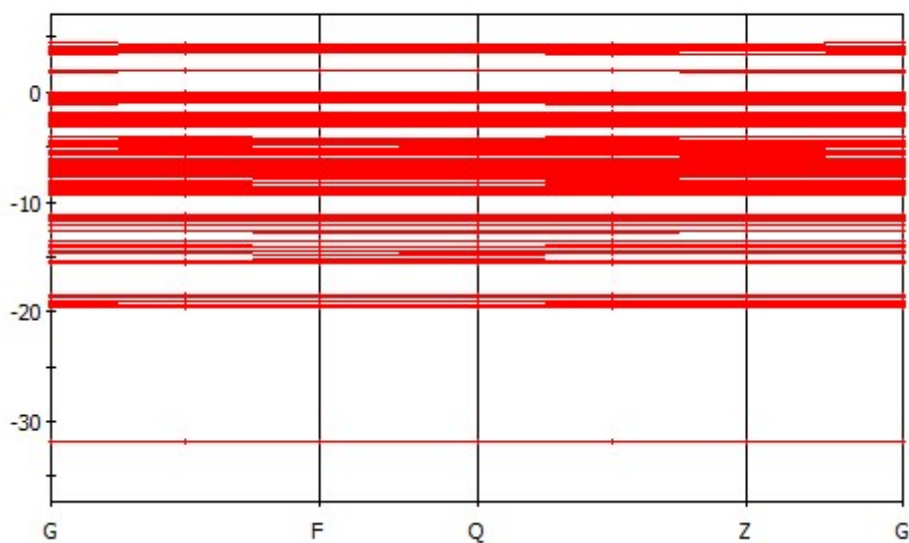


(b)

Figure S2 The asymmetric unit of **Ia** (a) and **IIa** (b) (H atoms bonded to C and N atoms have been omitted for clarity).

Ia

Energy (eV)



IIc

Energy (eV)

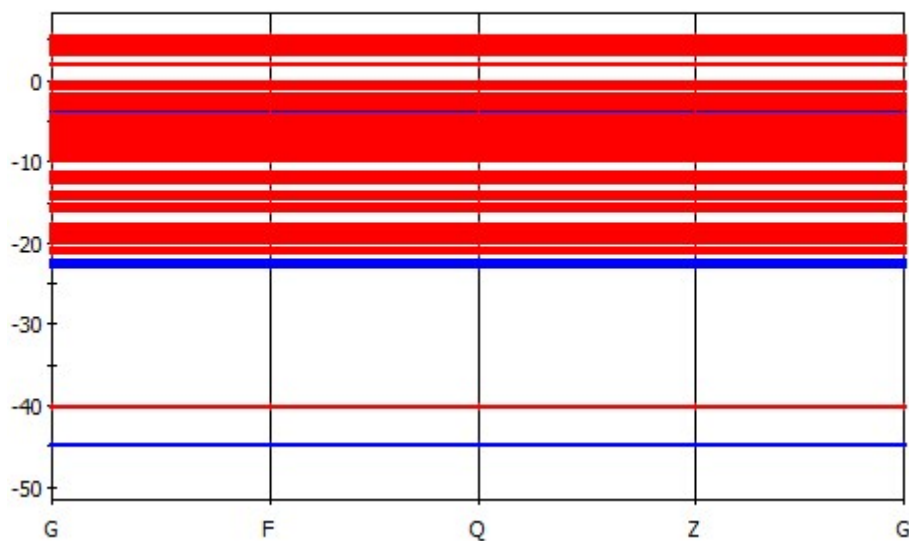


Figure S3 The calculated band structures of **Ia** and **IIc**.

For **Ia**, the lowest energy (1.8593 eV) of CBs is situated at G point, the highest energy (-0.0029 eV) of VBs is also located at G point. For **IIc**, the lowest energy (1.8071 eV) of CBs is situated at G point, the highest energy (0.0050 eV) of VBs is also located at G point.