A series of new lanthanide fumarates displaying three types of 3-D frameworks

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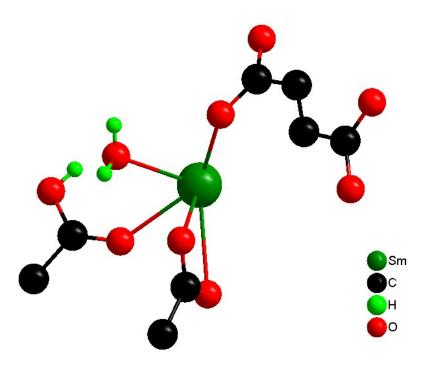
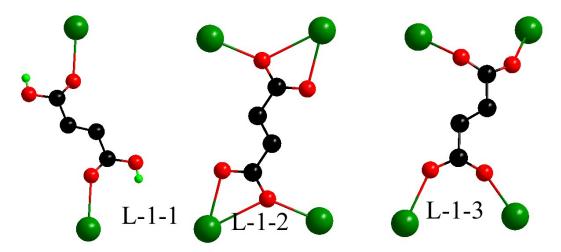


Fig. S1 The asymmetric unit of **1** (H atoms bonded to C atoms have been omitted for clarity).



Scheme S1 Three distinct ligand conformations observed in 1.

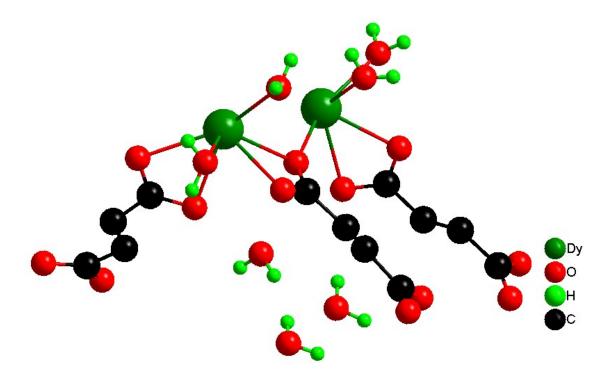
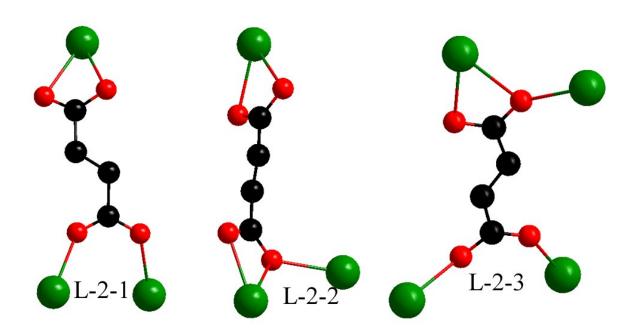


Fig. S2 The asymmetric unit of **2b** (H atoms bonded to C atoms have been omitted for clarity).



Scheme S2 Three distinct ligand conformations observed in 2b.

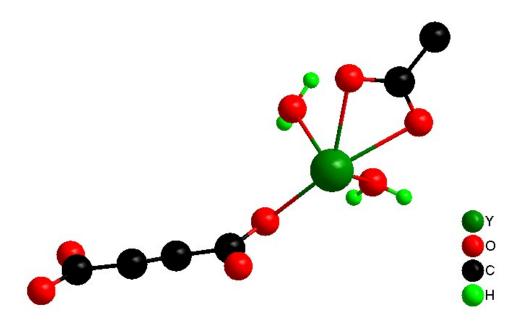
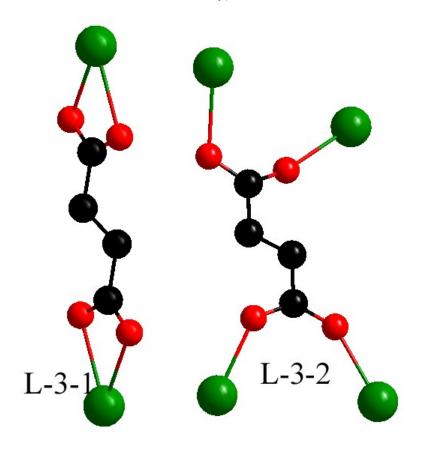
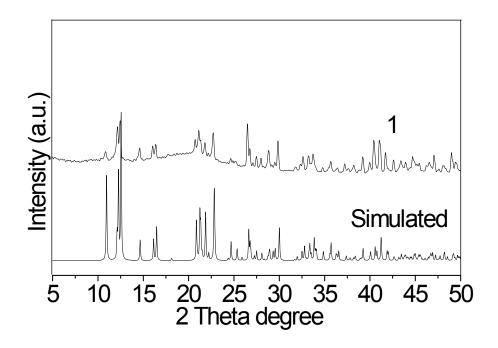
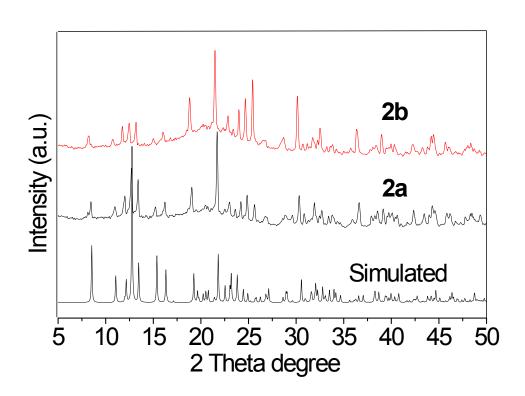


Fig. S3 The asymmetric unit of **3a** (H atoms bonded to C atoms have been omitted for clarity).



Scheme S3 Two distinct ligand conformations observed in 3a.





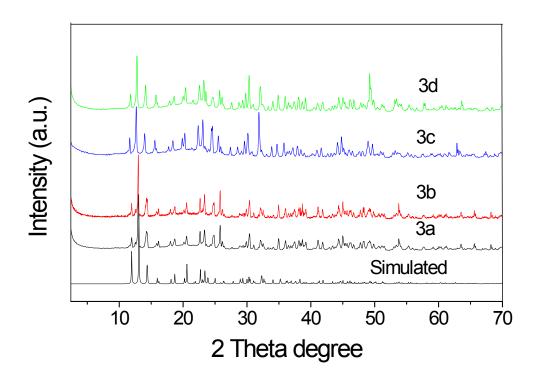


Fig. S4 Simulated and experimental powder XRD patterns of all compounds.

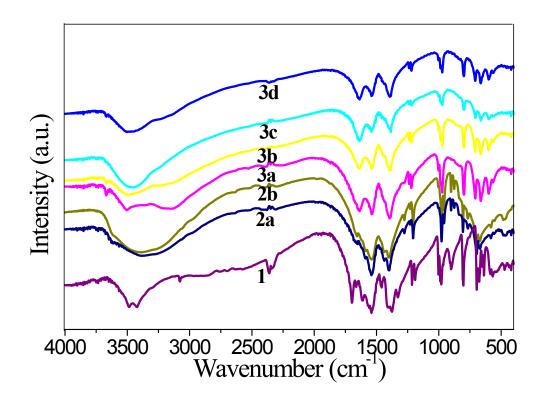
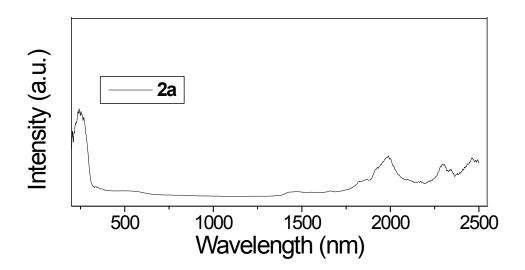


Fig. S5 IR spectra of all compounds.



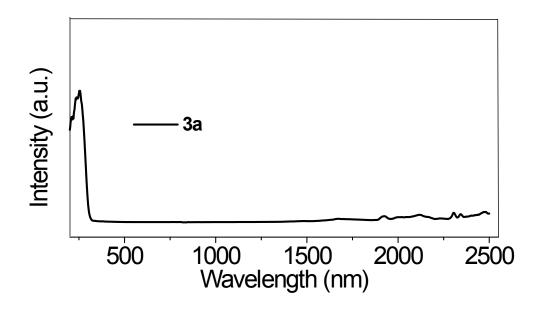


Fig. S6 UV/Vis absorption spectra of compounds 2a and 3a at room temperature.

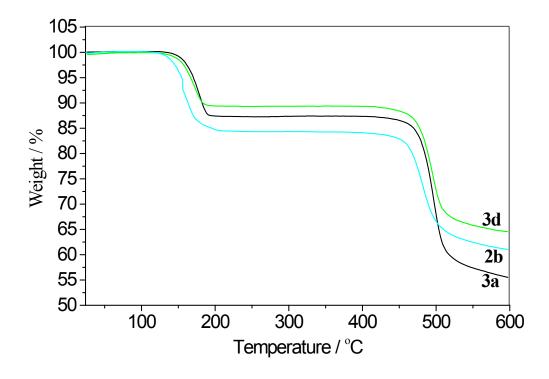


Fig. S7 Thermogravimetric analyses curves of compounds 2b, 3a and 3d.