

Supporting information

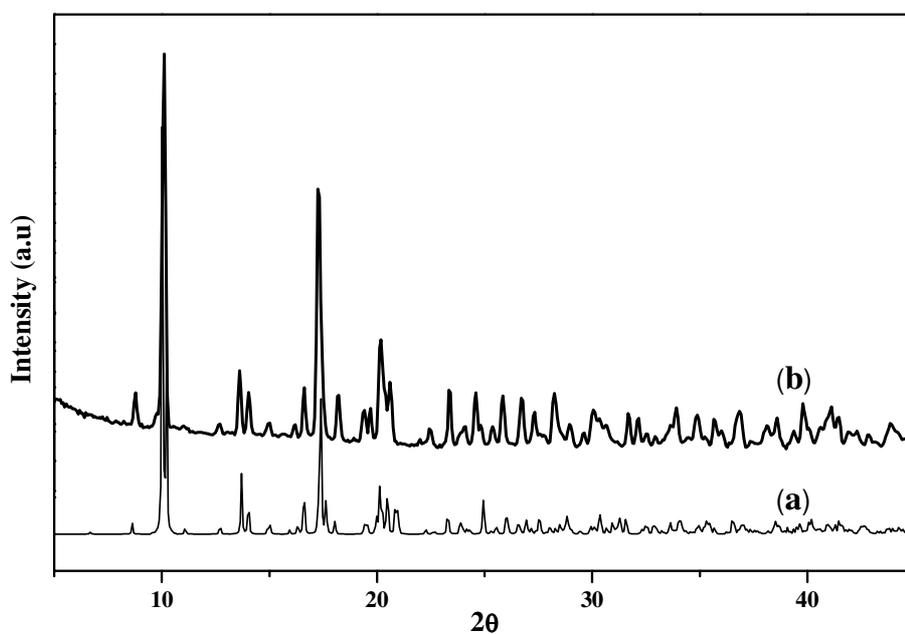
Heterometallic Inorganic-Organic Frameworks of

Na-Bi Benzenedicarboxylates

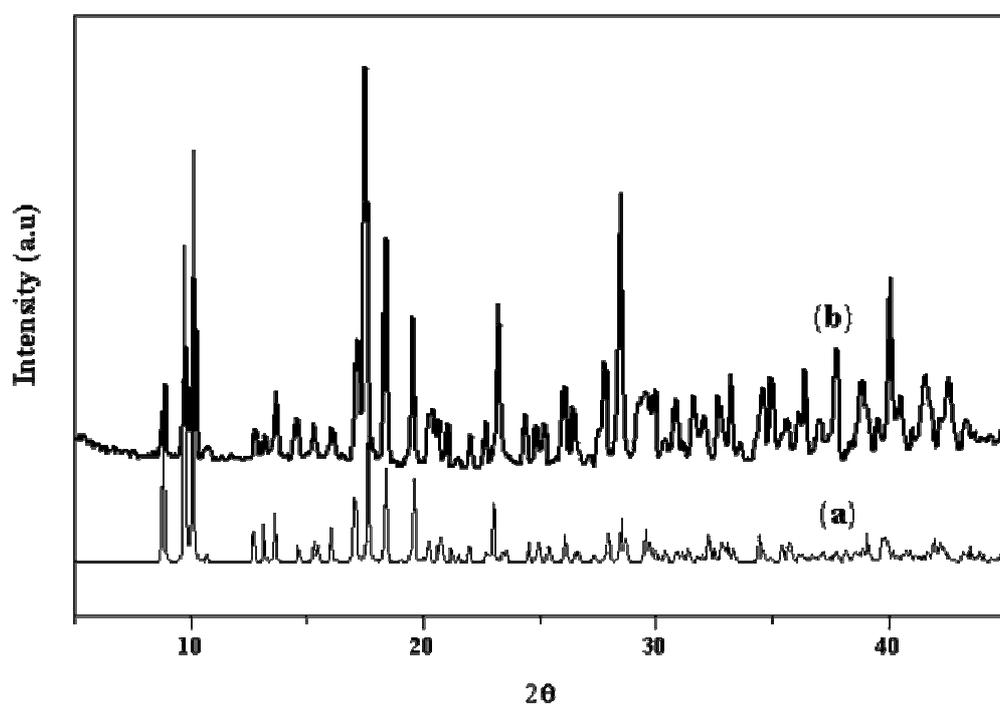
A. Thirumurugan, Jin-Chong Tan and Anthony K. Cheetham*

Department of Materials Science and Metallurgy, University of Cambridge,

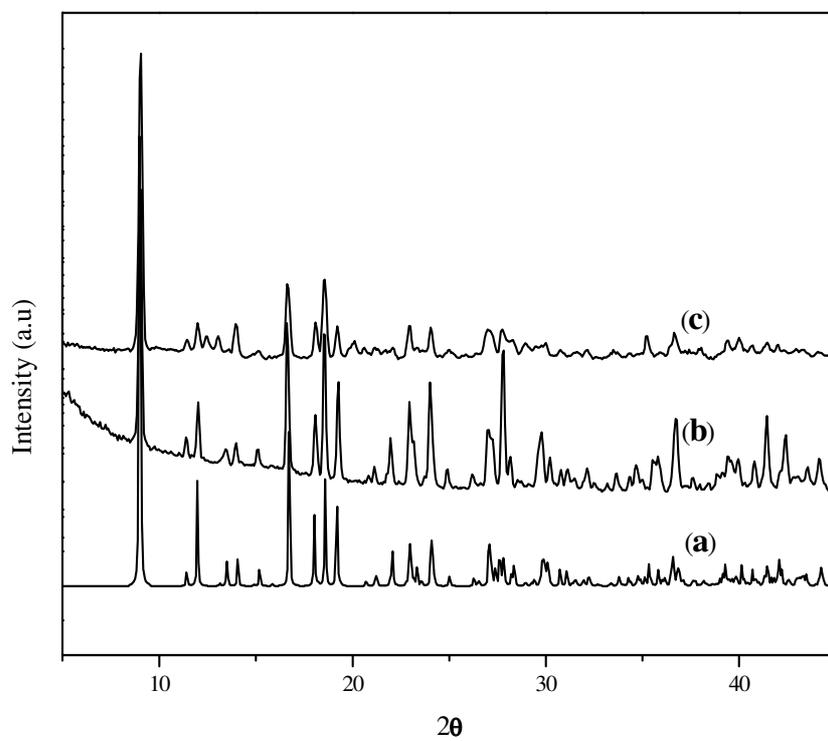
Pembroke Street, Cambridge CB2 3QZ, UK



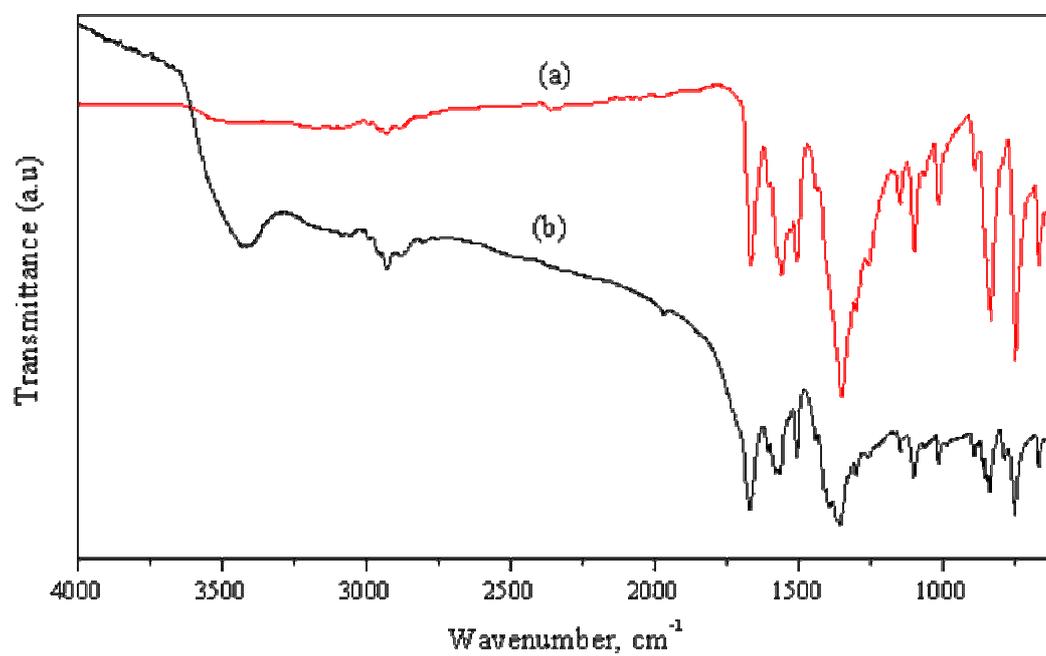
S.I. Fig. S1 (a) Simulated and (b) experimental PXRD patterns of **1**.



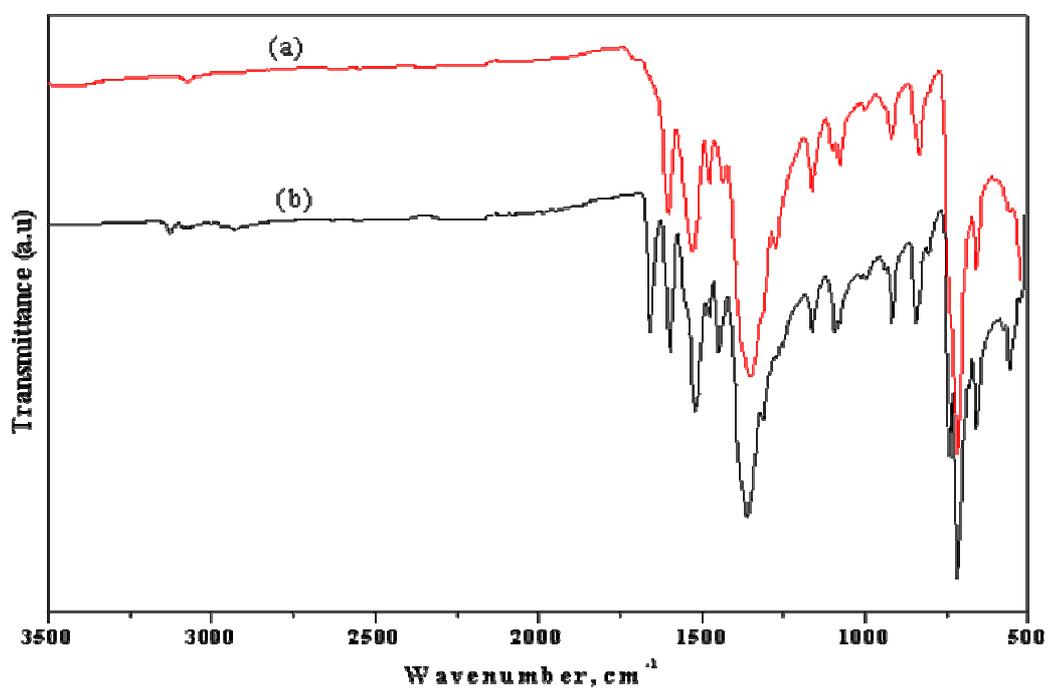
S. I. Fig. S2 (a) Simulated and (b) experimental PXRD patterns of **2**.



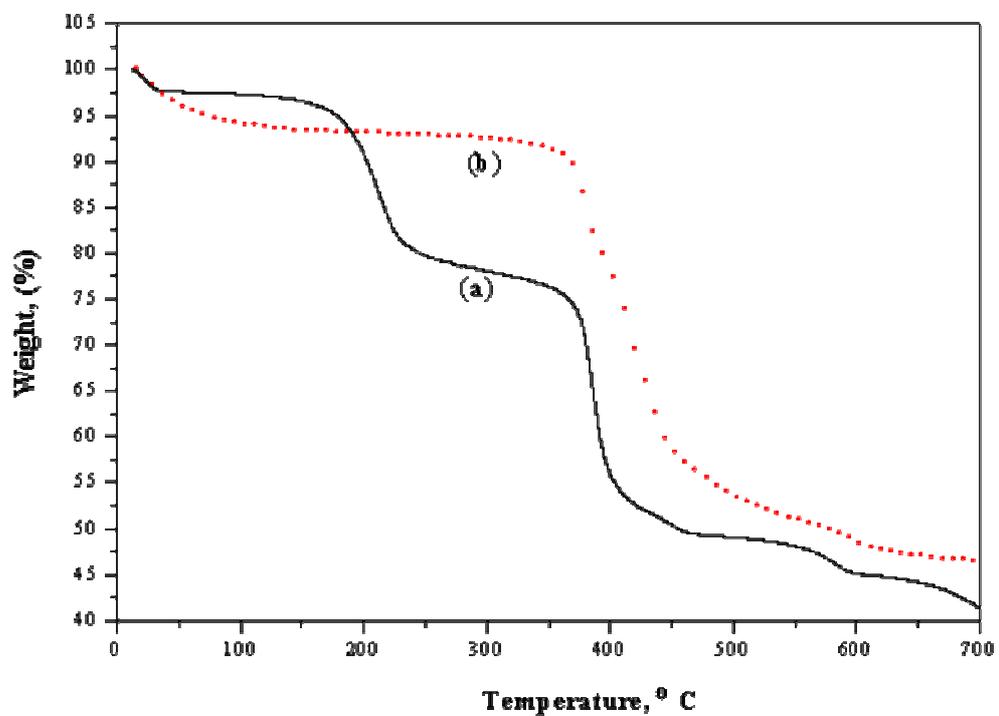
S.I. Fig. S3 (a) Simulated, (b) experimental pxrd patterns of **3** and (c) experimental pxrd pattern of **3'**.



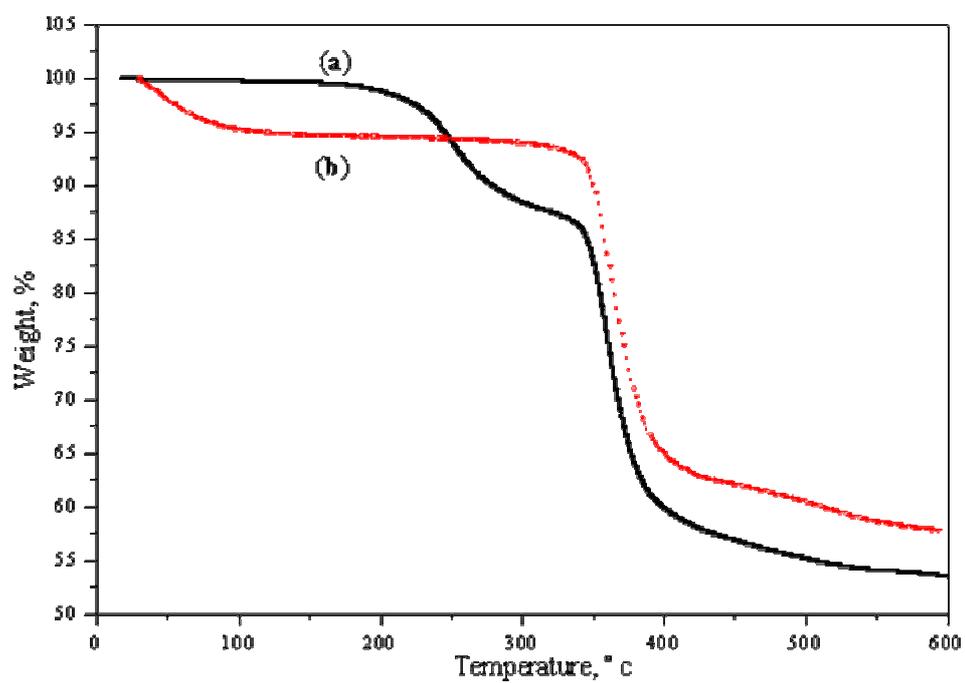
S.I. Fig. S4. IR spectra of (a) **1** and (b) **2**.



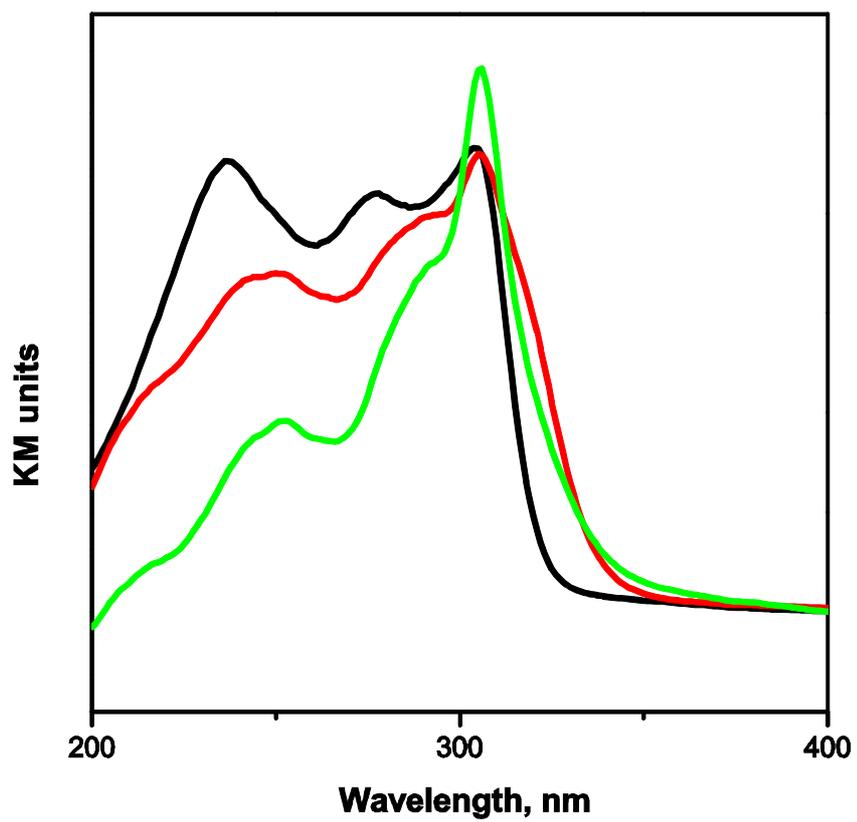
S.I. Fig. S5. IR spectra of (a) **3'** and (b) **3**.



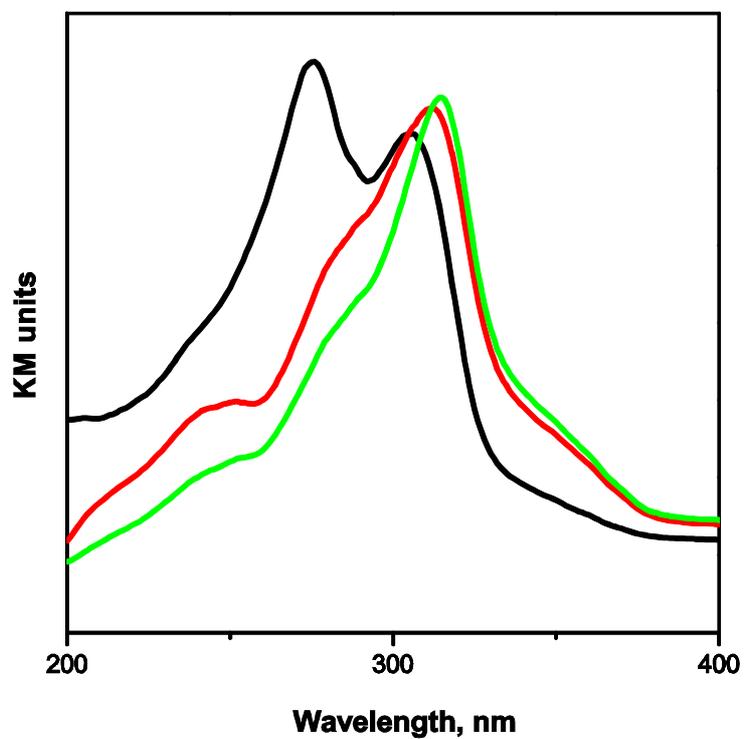
S.I. Fig. S6. Plots of TGA for (a) 2 and (b) 2'.



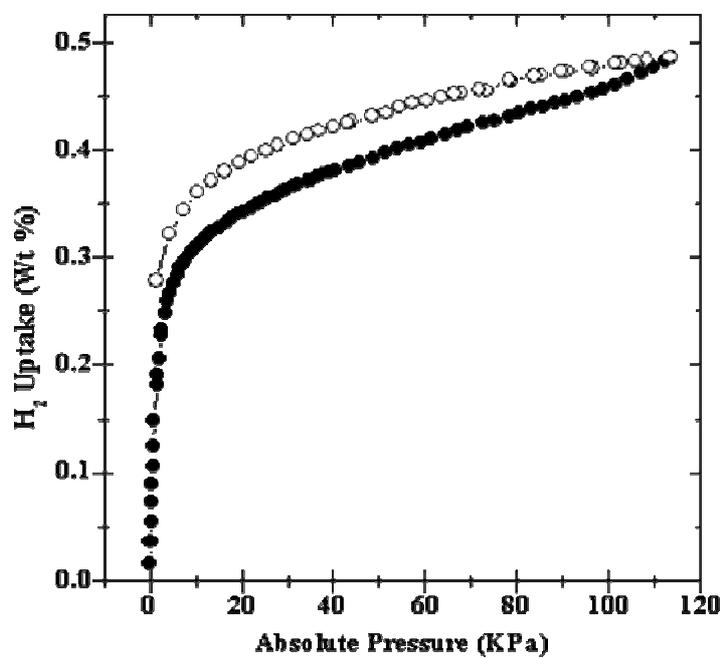
S.I. Fig. S7. Plots of TGA for (a) **3** and (b) **3'**.



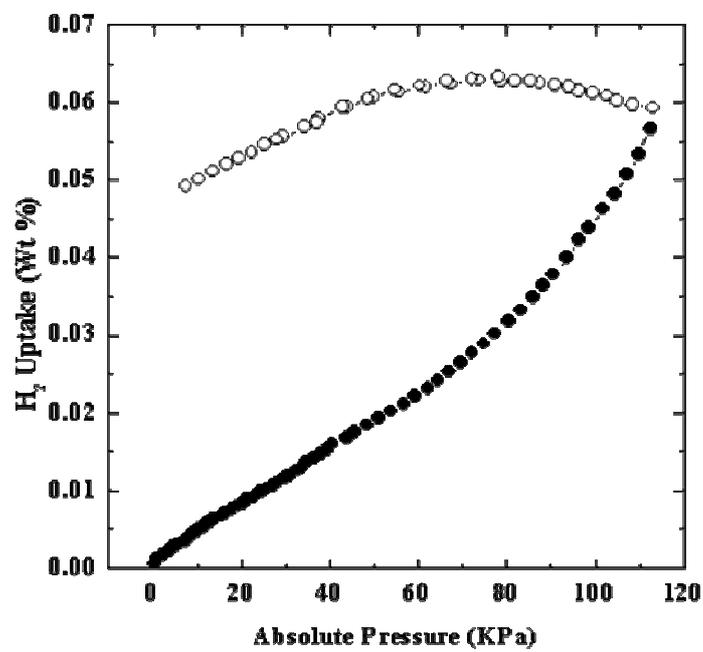
S.I. Fig. S8. UV-Vis spectra of (a) **2** (black), **2a** (green) and **2b**(red).



S.I. Fig. S9. UV-Vis spectra of (a) **3** (black), **3a** (green) and **3b**(red).



S.I. Fig. S10. H₂ Sorption isotherms for **2'** at 77K
(Solid circle: Sorption, Open circle: Desorption)



S.I. Fig. S11. H₂ Sorption isotherms for **3'** at 77K
(Solid circle: Sorption, Open circle: Desorption)