

Supplementary Material (ESI) for CrystEngComm

**pH-Dependent assembly of octamolybdate hybrid materials: a self-threading CdSO<sub>4</sub>-type framework and a 3D 4-connected framework**

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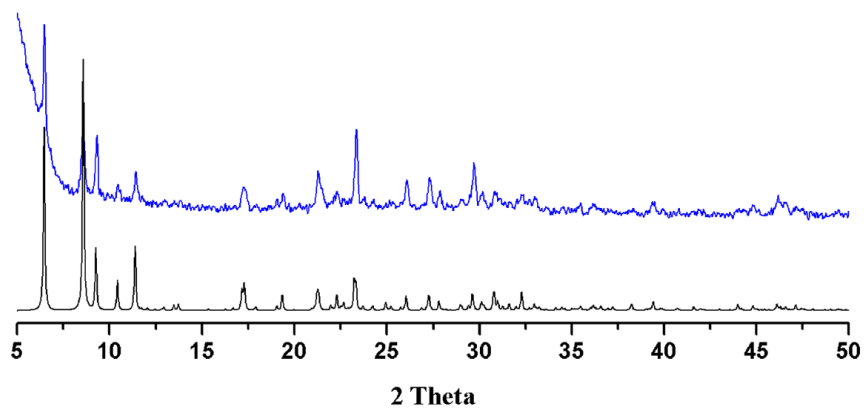
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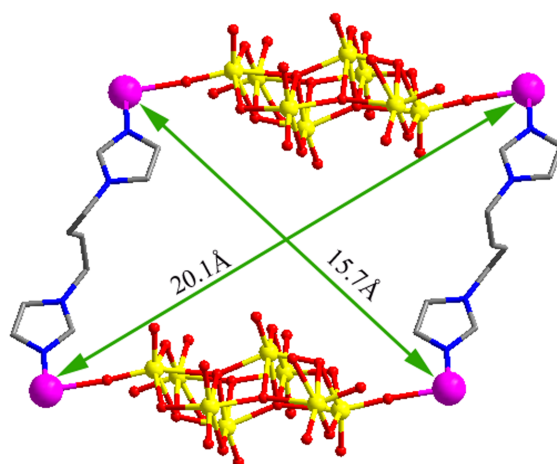
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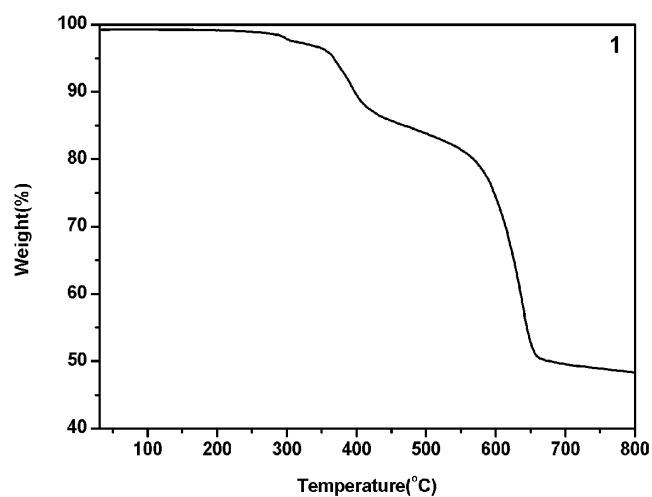
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**Fig. S1** Simulated (black) and measured (blue) PXR D patterns of **1**.



**Fig. S2** View of the window constructed by four Co(II) ions, two L ligands and two [H<sub>2</sub>Mo<sub>8</sub>O<sub>28</sub>]<sup>6-</sup> anions.



**Fig. S3** The TGA curve of compound **1**.