

Electronic Supplementary Material for CrystEngComm  
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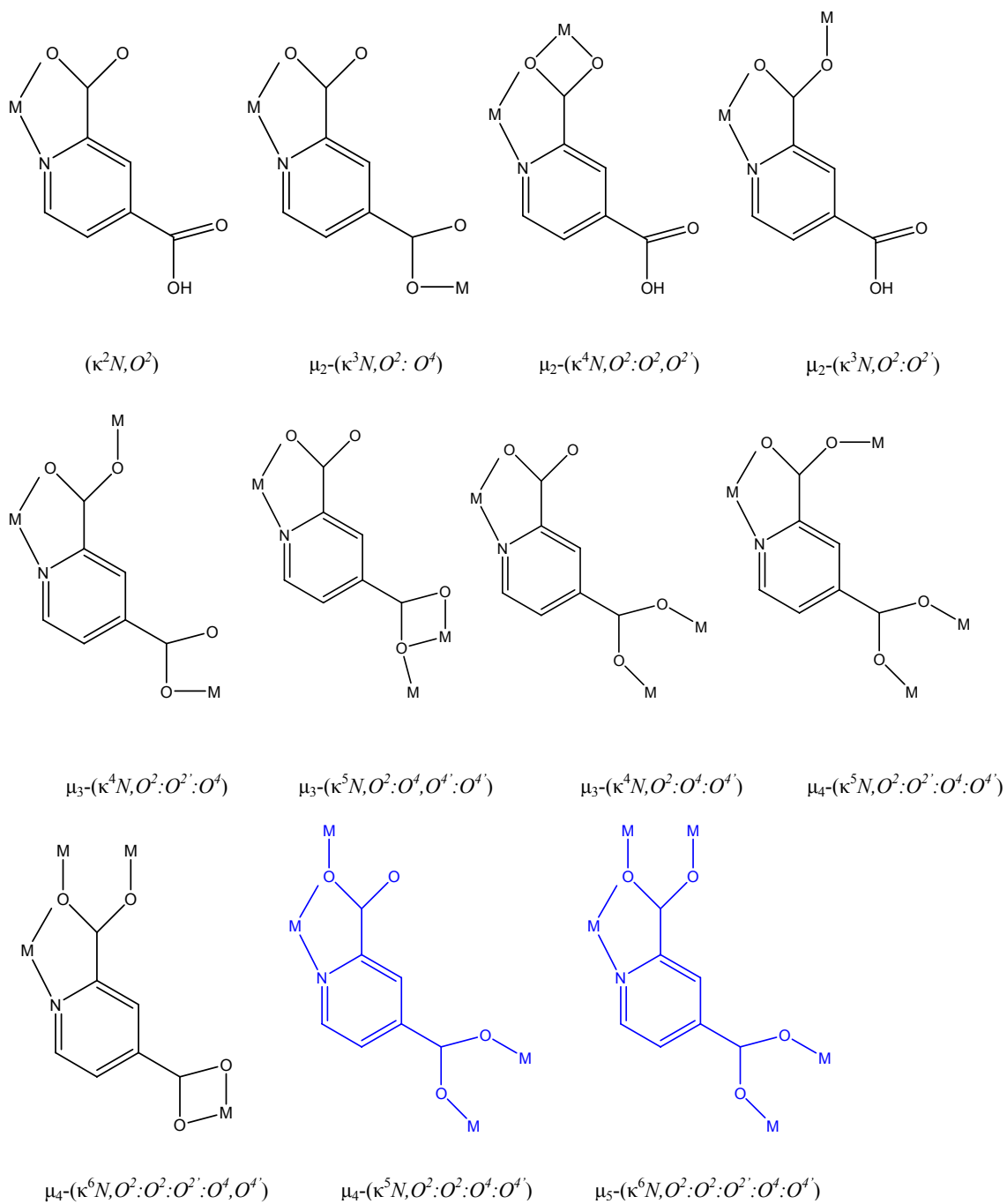
## **Constructing porous frameworks from one-dimensional cobalt–oxygen clusters and pyridinedicarboxylate ligands adopting two rare coordination modes**

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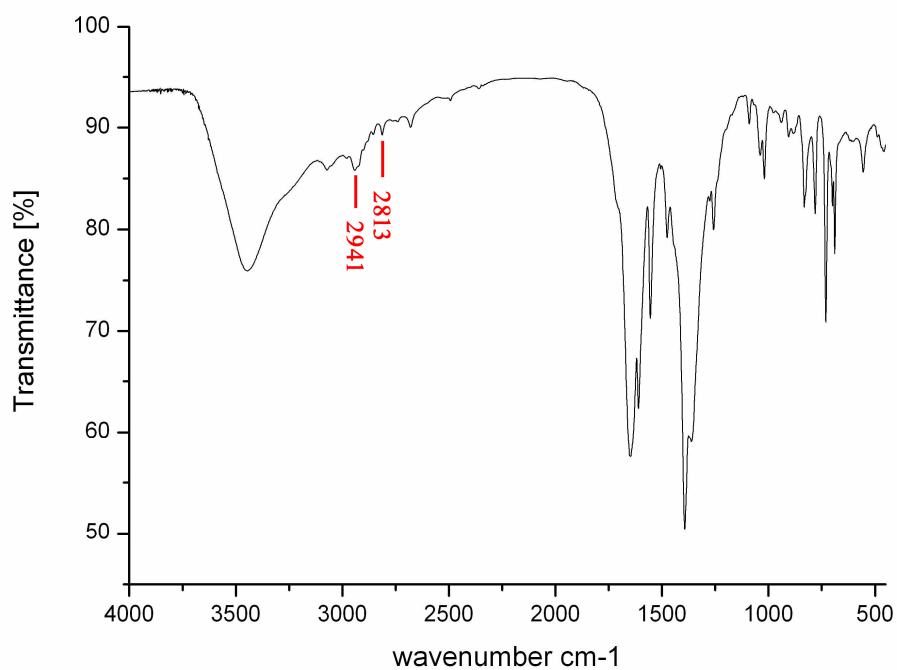
### **Supplementary Information**

**Figure S1.** Various coordination modes of 2,4-pydc ligand summarized from Cambridge Structural Database.

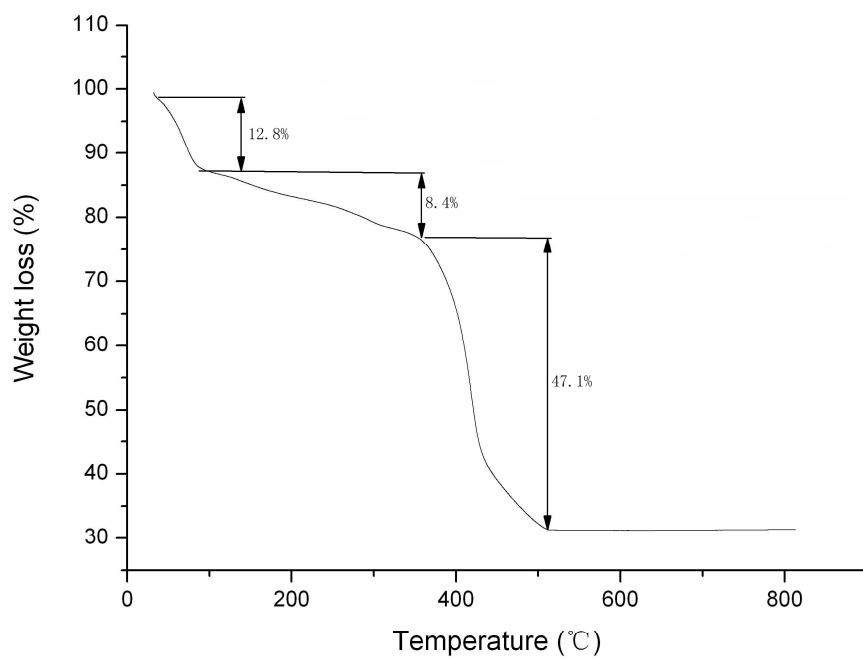


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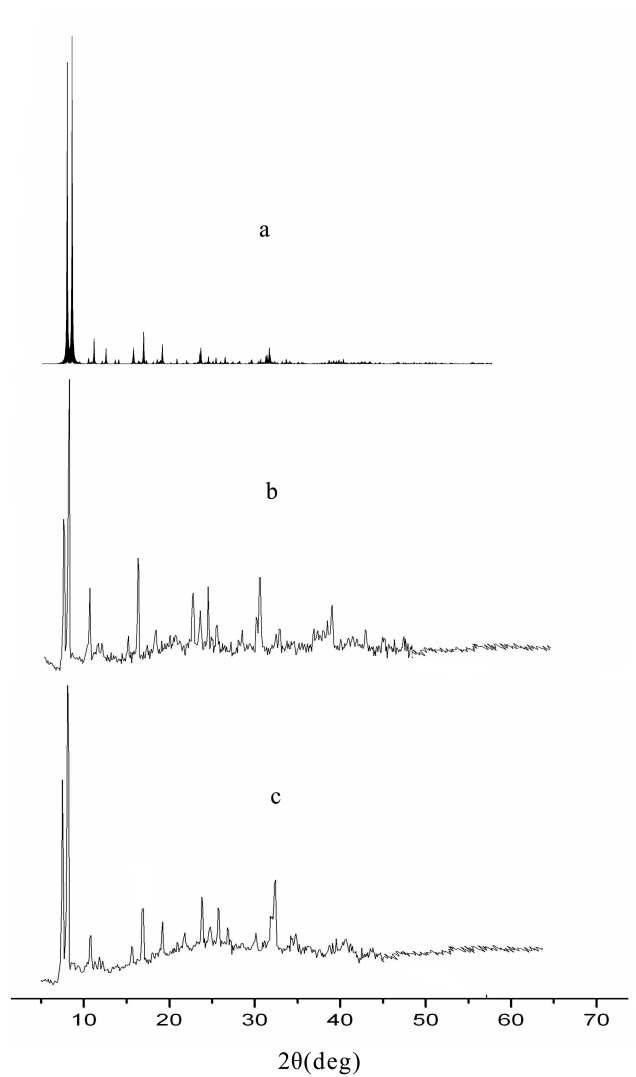
**Figure S2.** FT-IR spectroscopy of **1**.



**Figure S3.** TGA curves of **1**.



**Figure S4.** XPRD patterns of (a) the simulated, (b) as-synthesized, and (c) evacuated at 70 °C for 24 h for **1**.



**Figure S5.** Perspective view of the 3-D framework in **2**, showing square channels along the *c* direction.

