Electronic supplementary information (ESI)

Structural directing roles of isomeric phenylenediacetate ligands in the formation of coordination networks based on a flexible N,N'-di(3-pyridyl)suberoamide. A rare 5-fold cds net and a 1D network with new mode of entanglement.

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Fig. S1. Simulated (black) and as synthesized (red) PXRD patterns of complex **1**, and the pattern (blue) of the compound heated at 150 °C for 3hr.

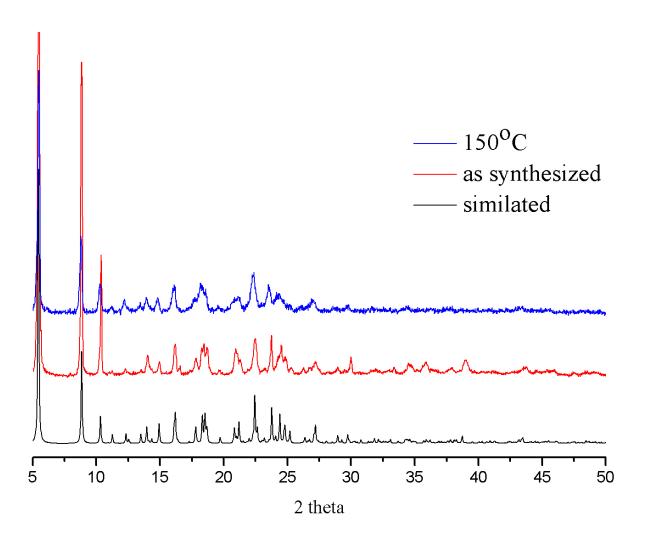


Fig. S2. Simulated (black) and as synthesized (red) PXRD patterns of complex **2**, and the pattern (blue) of the compound heated at 150 °C for 3hr.

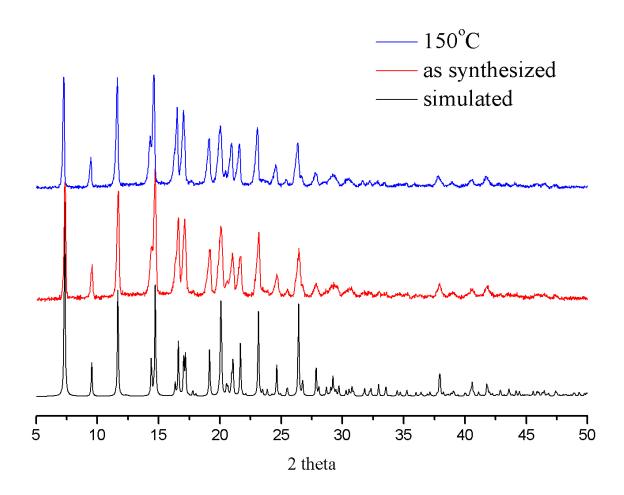


Fig. S3. Simulated (black) and as synthesized (red) PXRD patterns of complex **3**, and the pattern (blue) of the compound heated at 150 °C for 3hr.

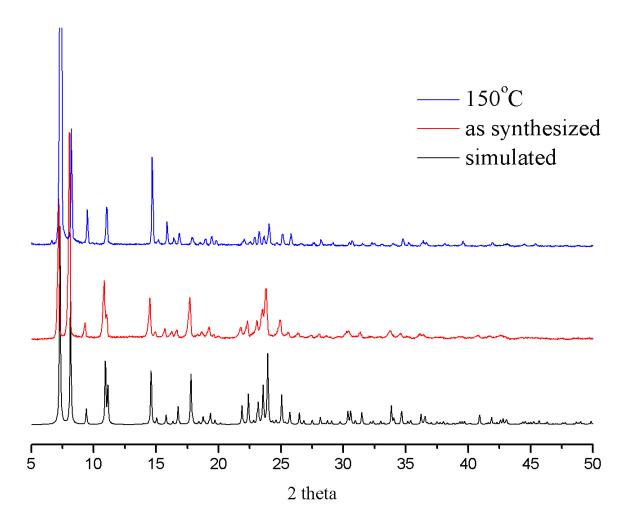


Fig. S4. A drawing showing the hydrogen bonds in **2**. Only two independent nets are shown for clarity.

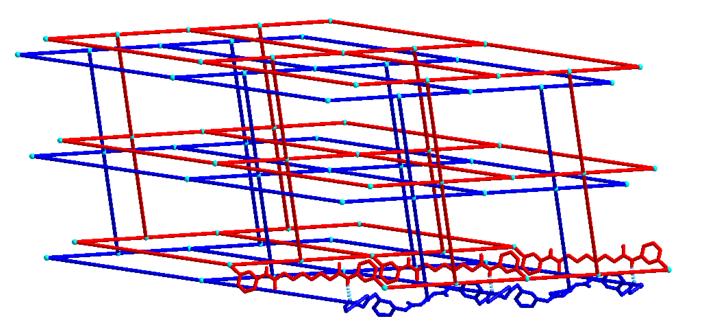


Fig. S5. A drawing showing the hydrogen bonds in 3.

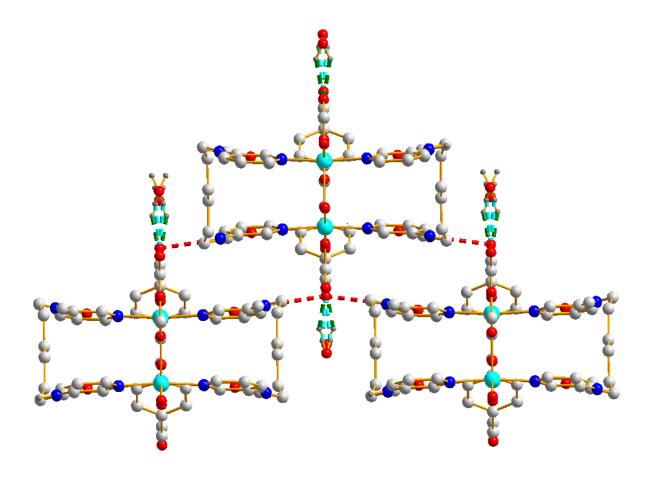


Fig. S6. TGA curves for 1-3.

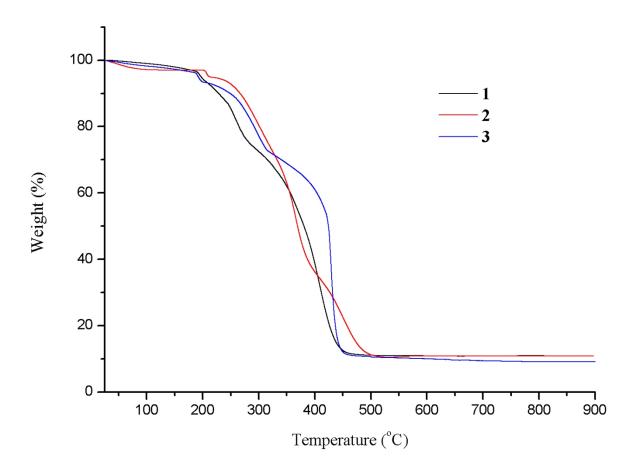


Table S1. Thermal properties of 1 - 3.

	Weight loss of H ₂ O,	Weight loss of ligands,
Complex	T, °C	T, °C
	(found/calc), %	(found/calc), %
1	50 - 190	200 - 460
	(3.53 / 5.02)	(84.96 / 86.41)
2	45 - 200	200 - 510
	(2.16 / 3.00)	(86.19 / 86.41)
3	50 - 200	200 - 460
	(6.56 / 5.83)	(83.26 / 83.39)