

Supporting materials

2D self-catenated coordination polymer constructed by triple- and double-helical chains

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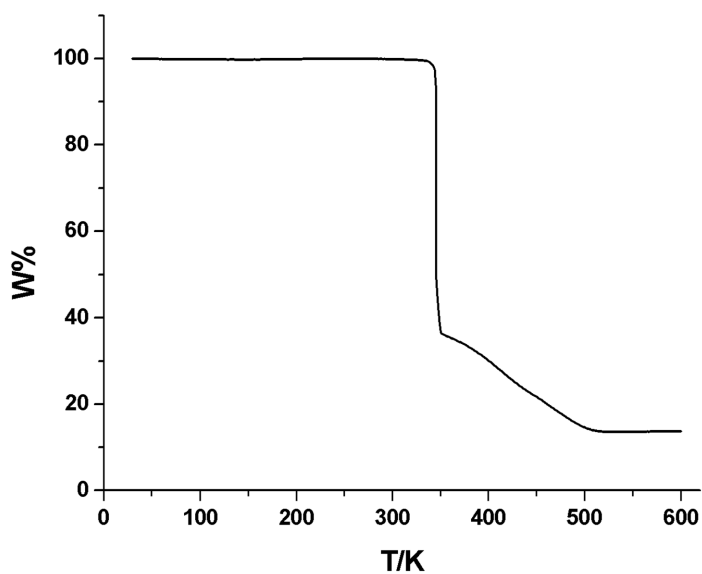


Fig. S1. TG plot of compound 1.

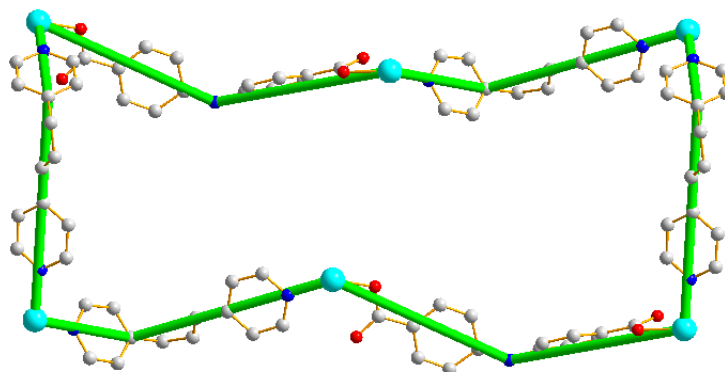


Fig. S2. Six-membered circuit is constructed by four bpp ligands and two cpdba²⁻ ligands.

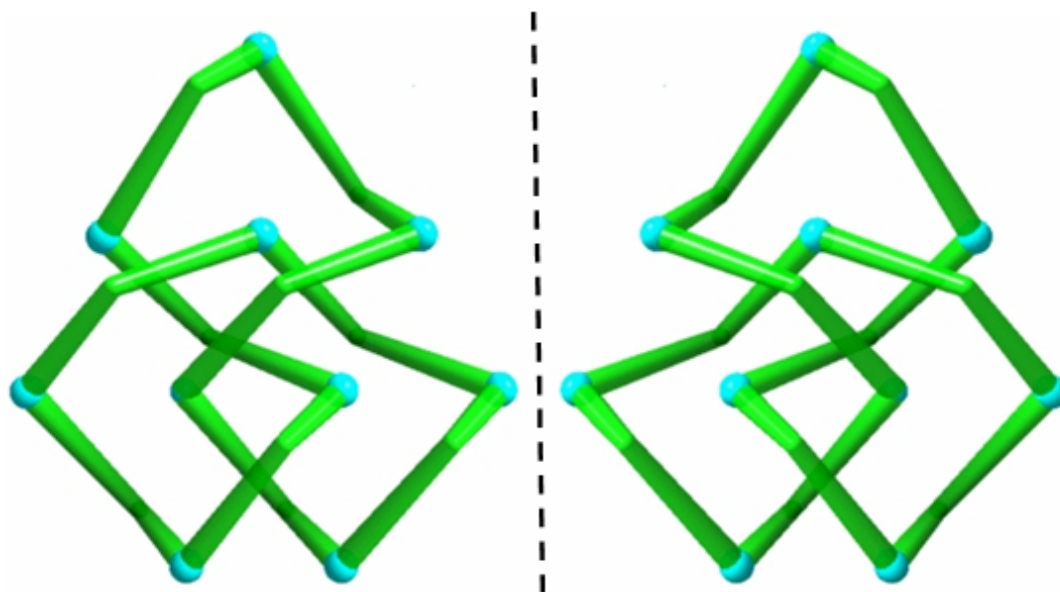


Fig.S3. Two enantiomers of trefoil-type molecular knots observed in the different layers of 1.

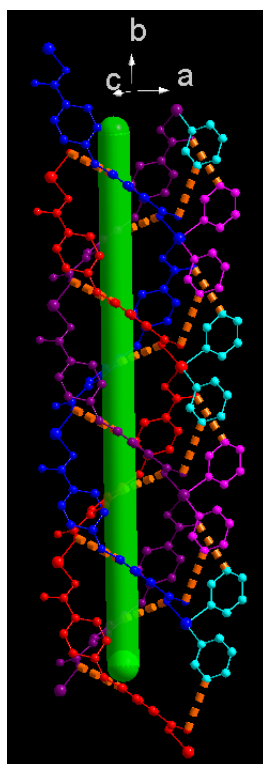


Fig.S4. The C–H···O hydrogen bonds (dashed lines) between the cpdba²⁻ ligands in triple helix exist in a spiral arrangement running along the [0 1 0] direction. The nitro groups of cpdba²⁻ ligands are omitted for clarity.

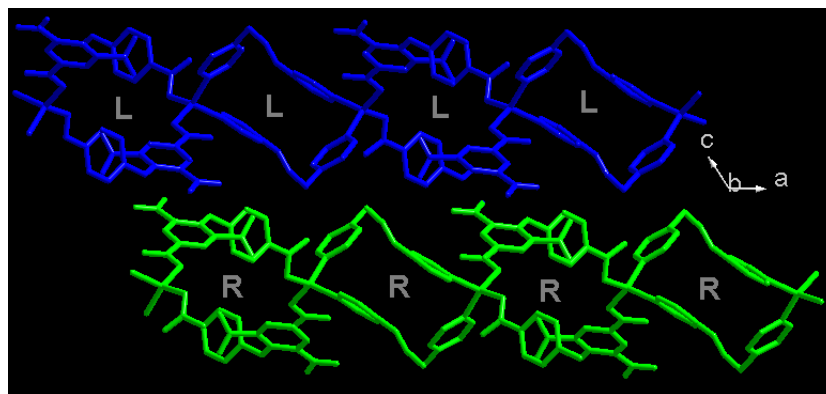


Fig.S5. The abutting layers are related by inversion centre and show an opposite chirality.

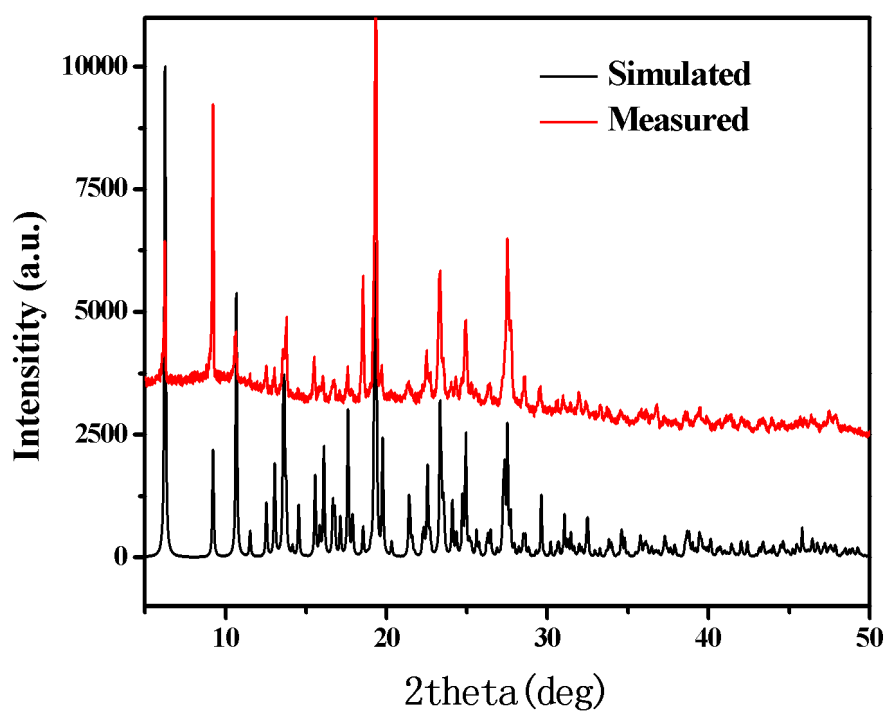


Fig. S6. Experimental and simulated powder X-ray diffraction patterns of compounds **1**