Electronic Supplementary Material (ESI) for CrystEngComm

Supporting information

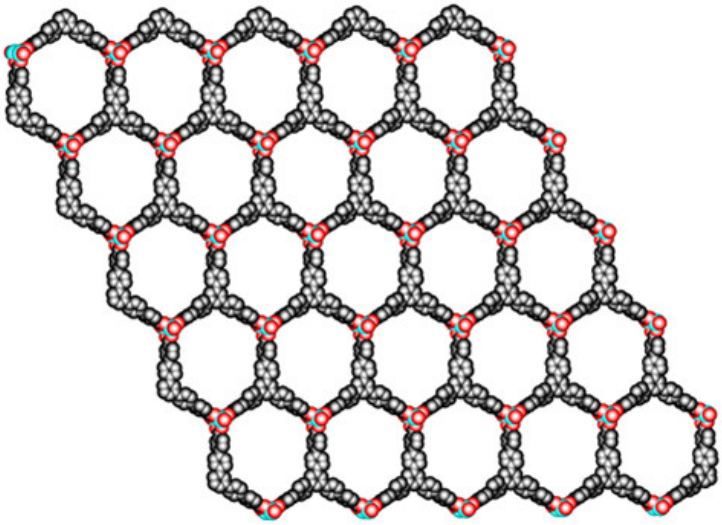


Fig. S1 View of the 3D porous framework of **1**

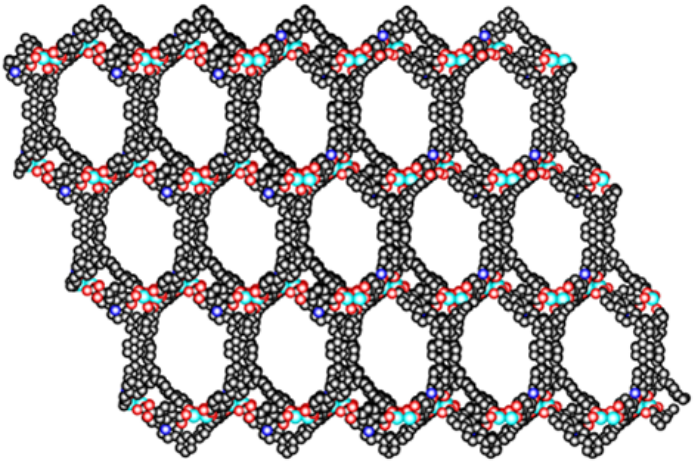


Fig. S2 View of the 3D porous framework of **2**

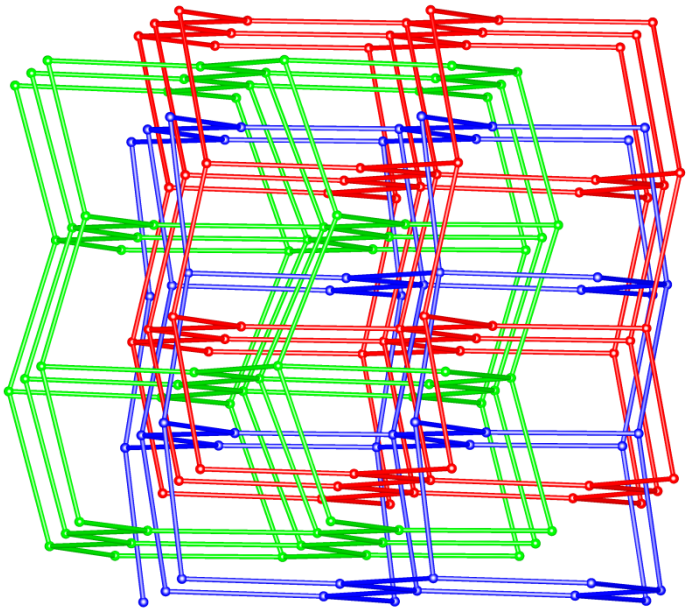
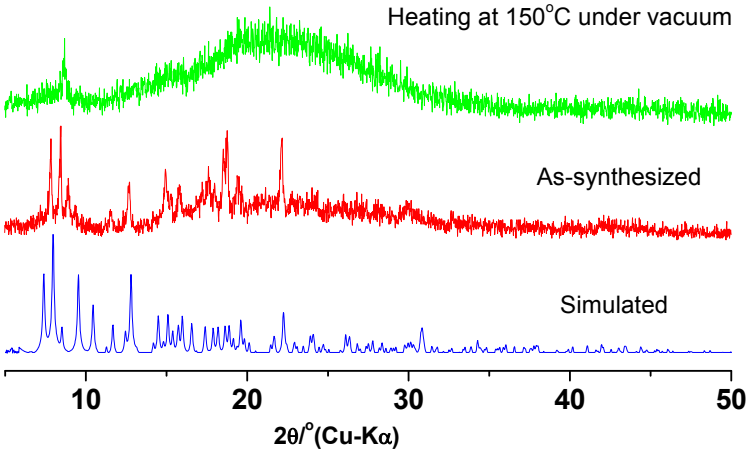
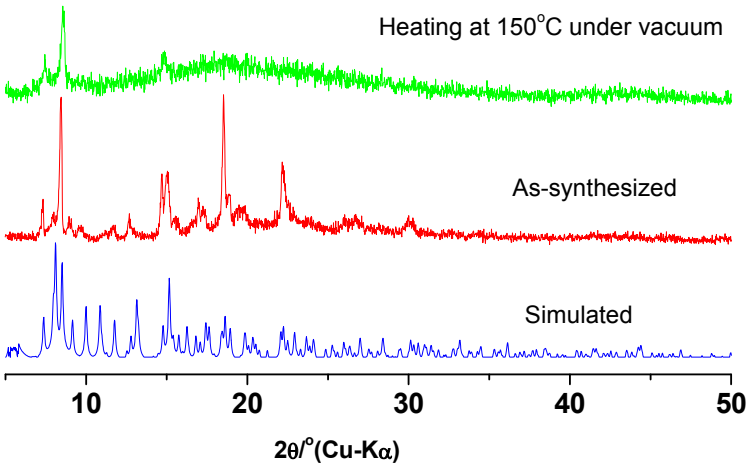


Fig. S3 Schematic view of the 3-fold interpenetrating (3,5)-connected network in **2**.

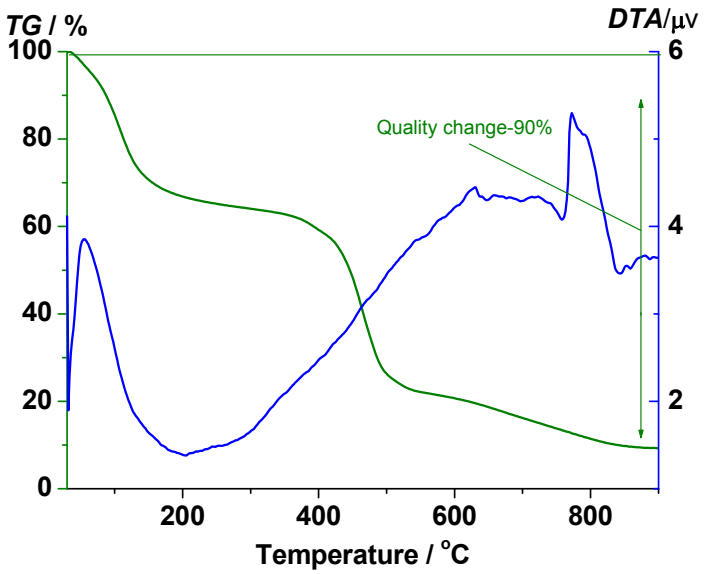


(a)

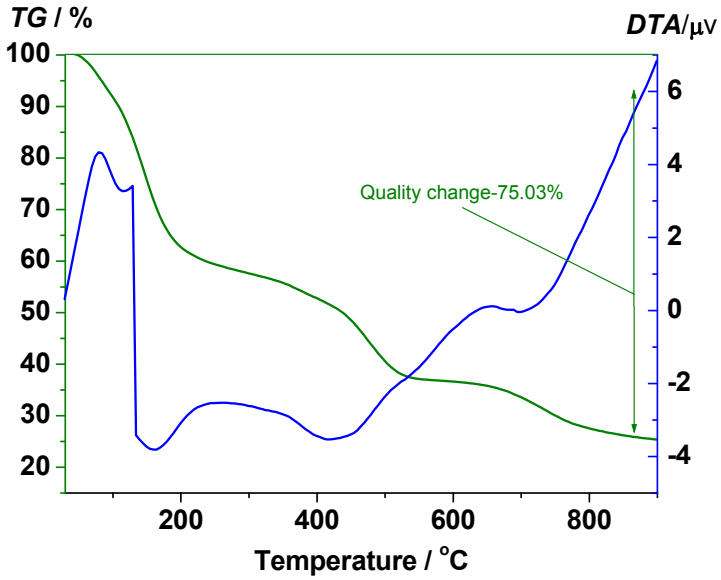


(b)

Fig. S4 PXRD patterns for **1**(a) and **2**(b).



(a)



(b)

Fig. S5 The TGA and DTA curves of **1**(a) and **2** (b).

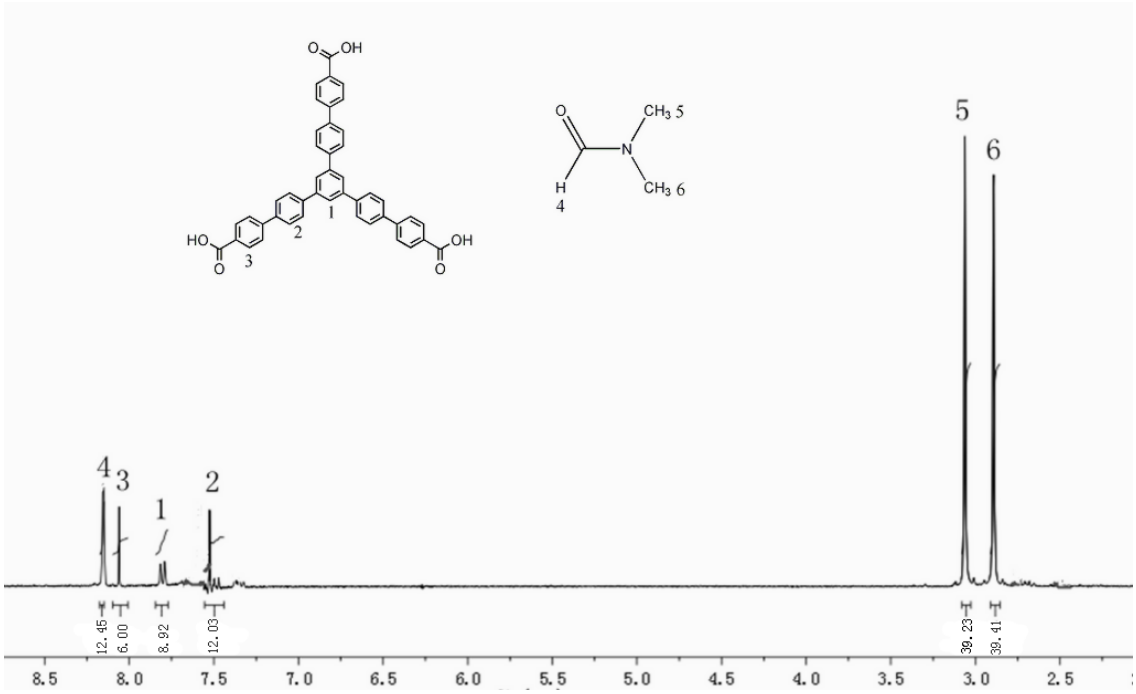


Fig. S6 ^{1}H-NMR spectrum for as-prepared **1** after digesting in DCl solution. The total integration value of 27.0 at peaks 1 to 3 is attributed to 27 aromatic protons for H_3BBC. Comparing to the integration of BBC, 12.4 DMF (peaks 4 to 6, 91.0 H) and 1.0 $(CH_3)_2NH_2^+$ were also observed. From the molar ratio, the empirical formula is $[Zn(BBC)(H_2O)_2](Me_2NH_2)\cdot 12DMF$.

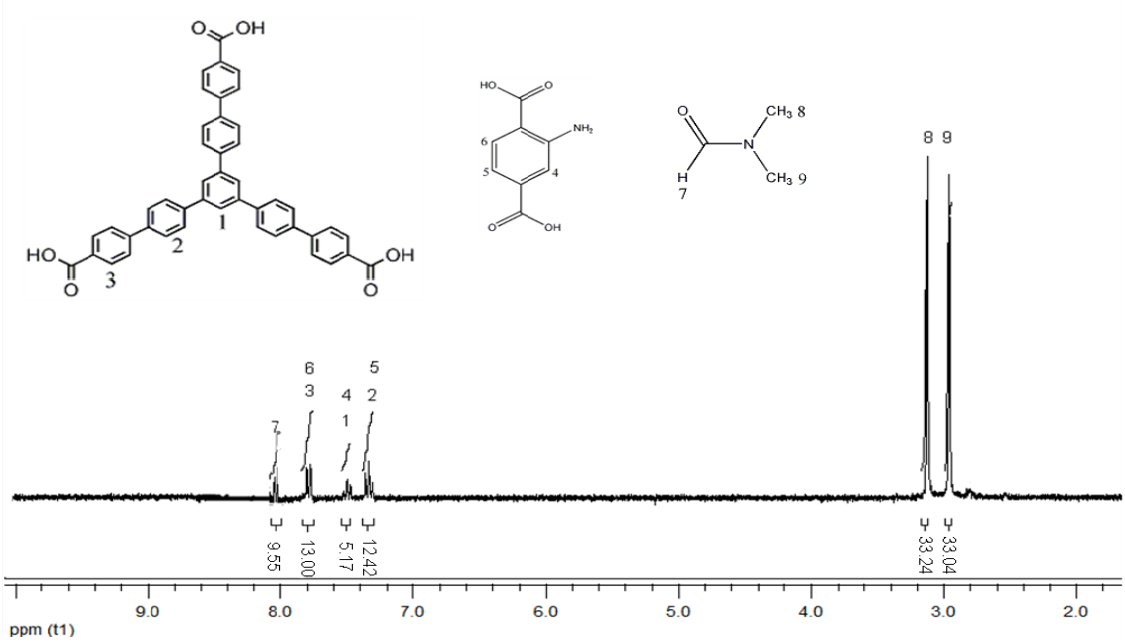


Fig. S7 ^{1}H-NMR spectrum for as-prepared **2** after digesting in DCl solution. The total integration value of 30.0 at peaks 1 to 6 is attributed to 30 aromatic protons for

H_3BBC and NH_2-BDC. Comparing to the integration of BBC, 10.0 DMF (peaks 7 to 9, 75.83 H) and 1.0 $(CH_3)_2NH_2^+$ were also observed. From the molar ratio, the empirical formula is $[Zn_2(BBC)(NH_2\text{-}BDC)]$ $(Me_2NH_2)\cdot 10DMF$.

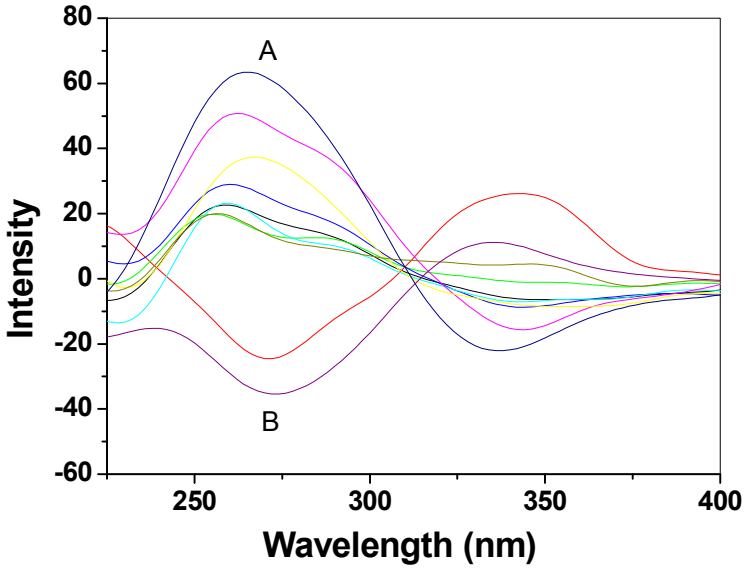


Fig. S8 Solid-state CD spectra of 10 crystals of compound **2** from one crystallization (calculated ee = 60%), showing A enantiomers and B enantiomers respectively.