Supporting information:

Three isolated structural motifs in one crystal: Penetration of two 1D chains through large cavities within 2D polymeric sheets

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Figure S1: Detail of hydrogen-bonding between the 2D layers, generating the pseudo-3D structure. Polymer A (2D) shown in purple and the two 1D polymers, B and C, in green and blue respectively. Lattice water molecules are shown in red, whilst hydroxide ions (−OH) in yellow.
Figure S2: Thermogravimetric analysis of Cu$_3$(Hbtc)(btc)(bpy)$_2$. Three distinct regions of mass loss were observed: (i) 6% over the temperature range of 150 - 220°C corresponding to the loss of water molecules (both coordinated and non-coordinated), theoretical: 9.8%; (ii) 22% around 261°C corresponding to the loss of the organic components of the 1D polymers B and C, theoretical: 21.3%; and (iii) 31% at 390°C corresponding to sample degradation. There is an additional small mass loss around 530°C. All samples were run under a flow of nitrogen at a heating rate of 10°C/min.