

Electronic Supplementary Information for:

**Metal-Organic Frameworks Constructed from
Mixed-Ligand 1,2,3,4-Tetra-(4-Pyridyl)-Butane and
Benzene-Polycarboxylate Acids: Syntheses, Structures and
Physical Properties**

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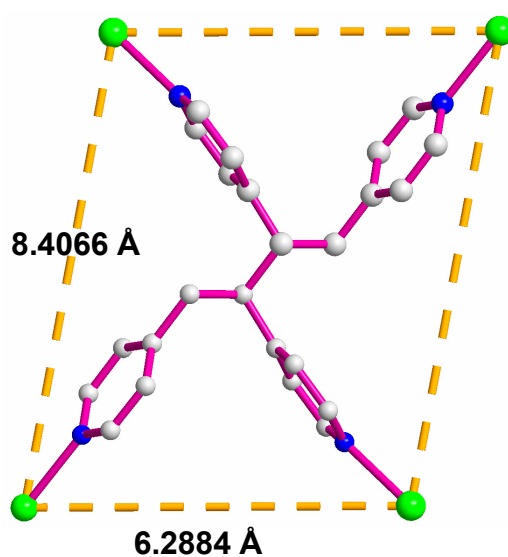


Fig. S1 The coordination configuration of the ligand TPB with Mn ions in **1**.

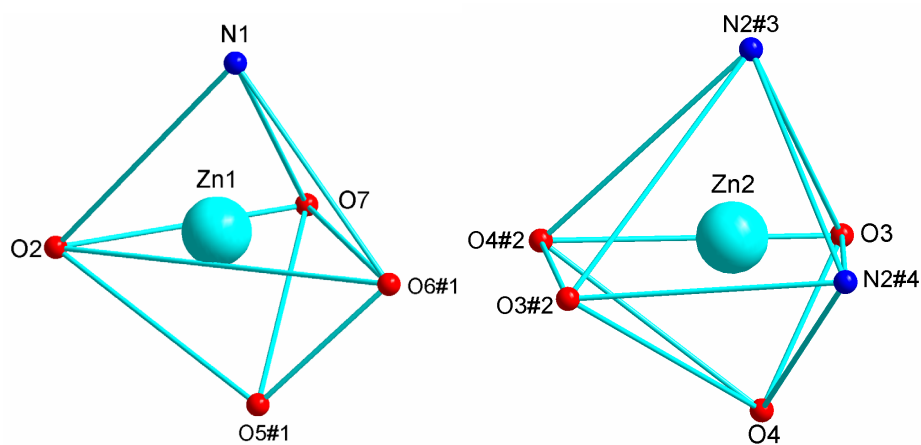


Fig. S2 Coordination geometries of the Zn^{2+} ions in **2**. Symmetry codes: (#1 $x, 2-y, 0.5+z$; #2 $-x, y, -0.5-z$; #3 $0.5-x, -0.5+y, 0.5-z$; #4 $-0.5+x, -0.5+y, -1+z$).

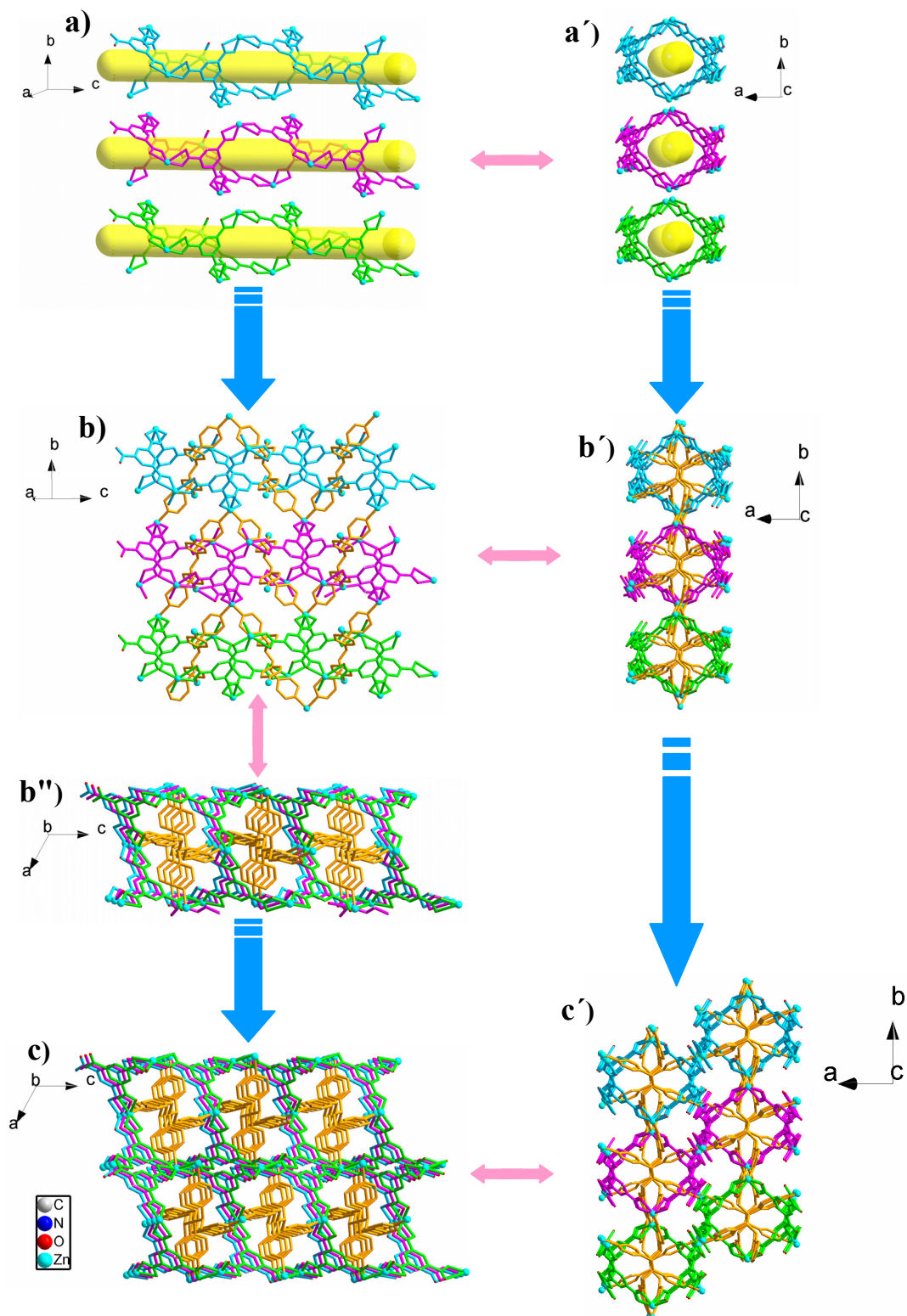


Fig. S3 (a) and (a') Perspective view of the 1D channels formed by zinc centers and TMA anions from different directions; (b), (b') and (b'') View of the 1D channels connected by the “second” ligands of TPB molecules from different directions; (c) and (c') View of the 3D network from different directions.

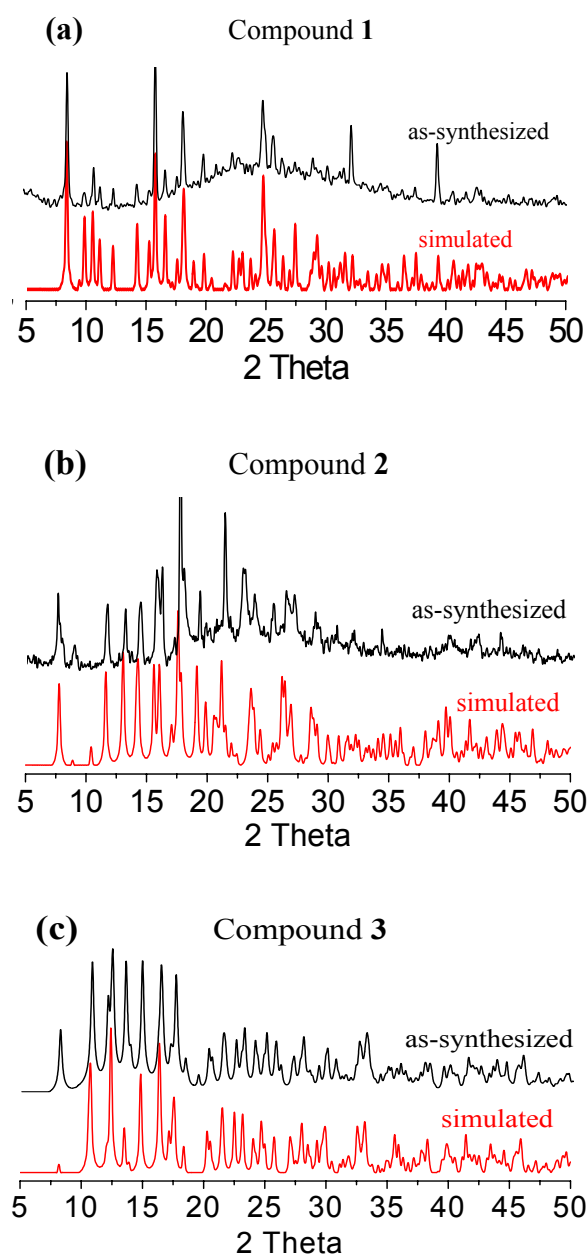


Fig. S4 The as-synthesized (black) and simulated (red) PXRD patterns for compounds **1-3**, respectively.

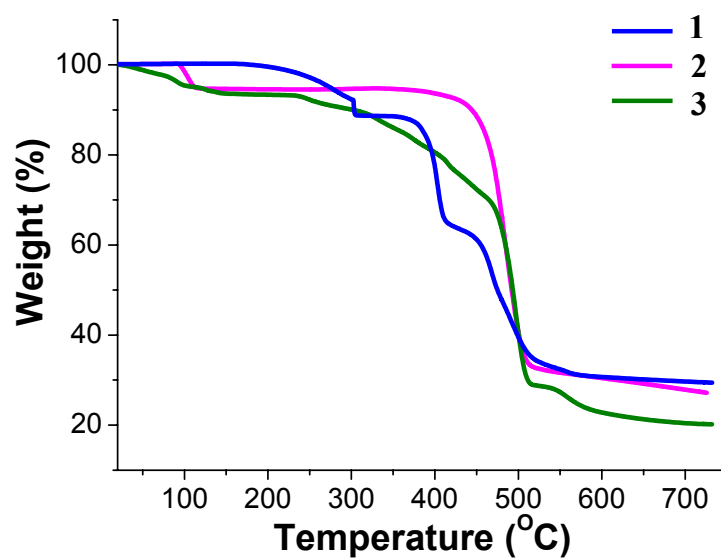


Fig. S5 TG curves of complex 1-3.