Unusual Parallel Entanglement of Metal-Organic 2D Frameworks with Coexistence of Polyrotaxane, Polycatenane and Interdigitation


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Figure S1 Space-filling plots of the neutral chain of loops \([\text{Zn}_2(1,2-\text{BBOMB})_2]_n\) in complex 1.
Figure S2 The adjacent layers are interdigitated each other to form 3D architecture in complex 1.
Figure S3 Space-filling plots of the single net in 2 viewed along the $b$ axis.

Figure S4 Two views of parallel 2D→2D triply interpenetrating nets in 2
Figure S5 A view of the neutral chain of loops \([\text{Zn}_2(1,2\text{-BBOMB})_2]_n\) with two type rings in complex 3. Space-filling plots of type A and B loops in 3.

Figure S6 The comparison of the stereochemical relationships between the 4,4'-bipy or bpp rods and the \([\text{Zn}_2(\text{BBOMB})_2]\) loops through which it passes for complexes 1 (left), 2 (middle) and 3 (right).
Figure S7 TGA curves for complexes 1 (red), 2 (blue) and 3 (green).