

Electronic Supplementary Information

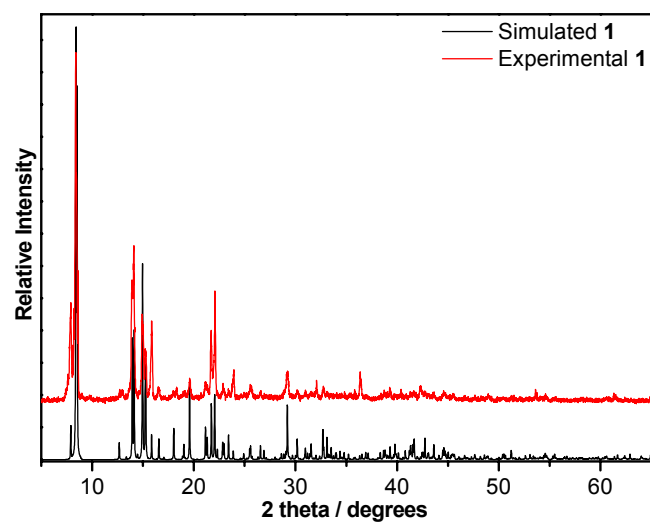
Counterion-Induced Controllable Assembly of 2D and 3D Metal-Organic Frameworks: Effect of Coordination Modes of Dinuclear Cu(II) Paddle-Wheel Motifs

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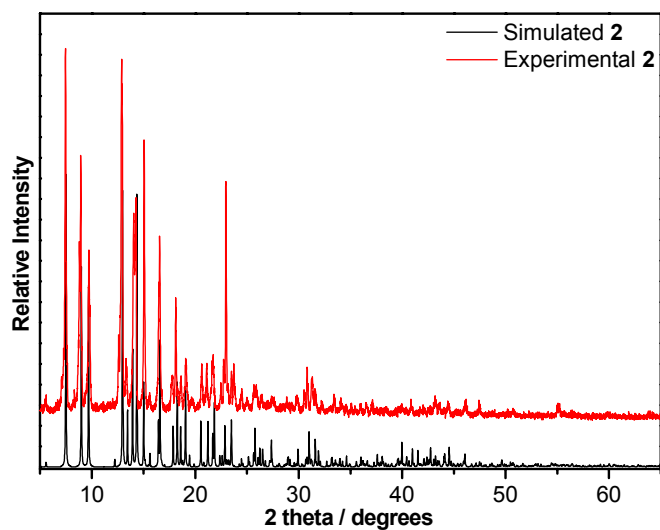
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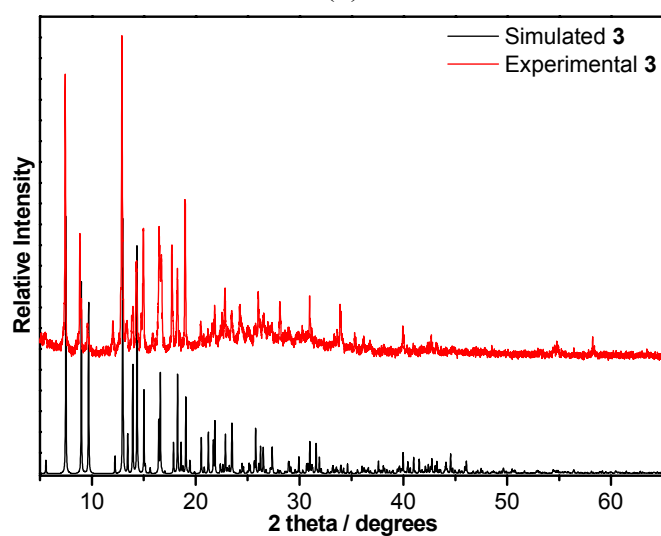
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(a)



(b)



(c)

Figure S1. Powder XRD profiles of simulated and experimental compounds 1-3.

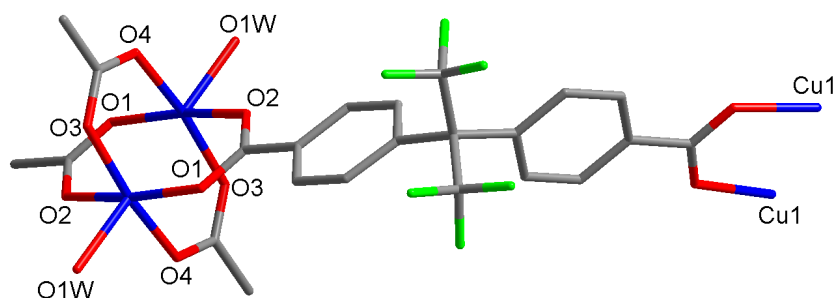


Figure S2. A view showing the coordination environments of dinuclear Cu(II) paddle-wheel cluster and the binding mode of hfipbb ligand.

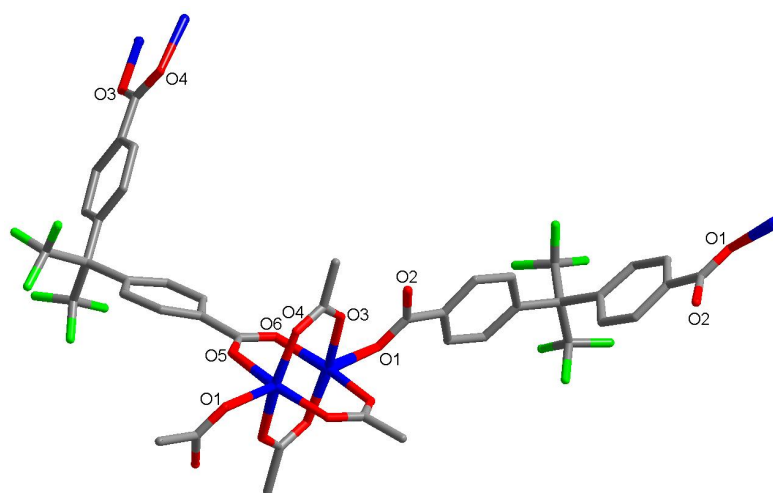


Figure S3. View of the coordination environments of dinuclear M(II) (M = Cu, **2**; Co, **3**) cluster and the different binding modes of hfipbb and H₂hfipbb ligands.

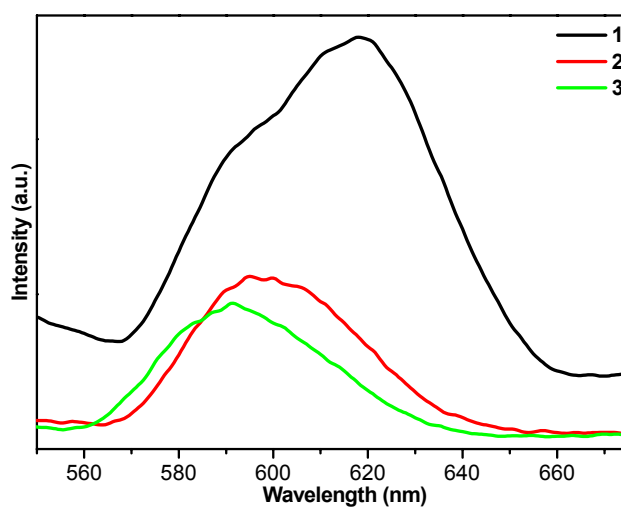


Figure S4. Solid-state emission spectra of compounds **1-3** at room temperature.

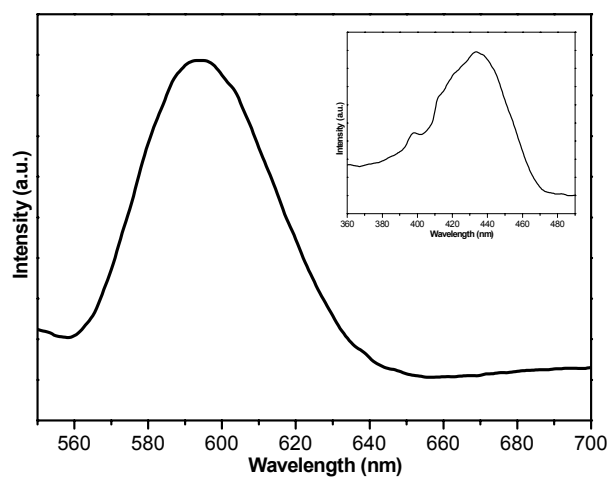


Figure S5. Fluorescent emission spectra of $H_2hfipbb$ ligand ($\lambda_{ex} = 435$ nm, inset: excitation spectrum).