Electronic Supplementary Material for CrystEngComm

A mixed-linker porphyrin framework with CdI_2-type topology

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Synthesis

A mixture of $Co(NO_3)_2 \cdot 6H_2O$ (0.02 mmol), zinc 5, 10-di(carboxyphenyl)-15,20-diphenylporphryin (0.01 mmol), 4,4'-bipyridine (0.02 mmol), N,N-diethylformamide (0.75 mL) and ethanol (0.25 mL) was added to a small capped vial, heated at 80°C for 24 hours, and then cooled to room temperature over 9 hours. The resulting dark blue, plate single crystals were isolated by filtration. The product is insoluble in common organic solvents.

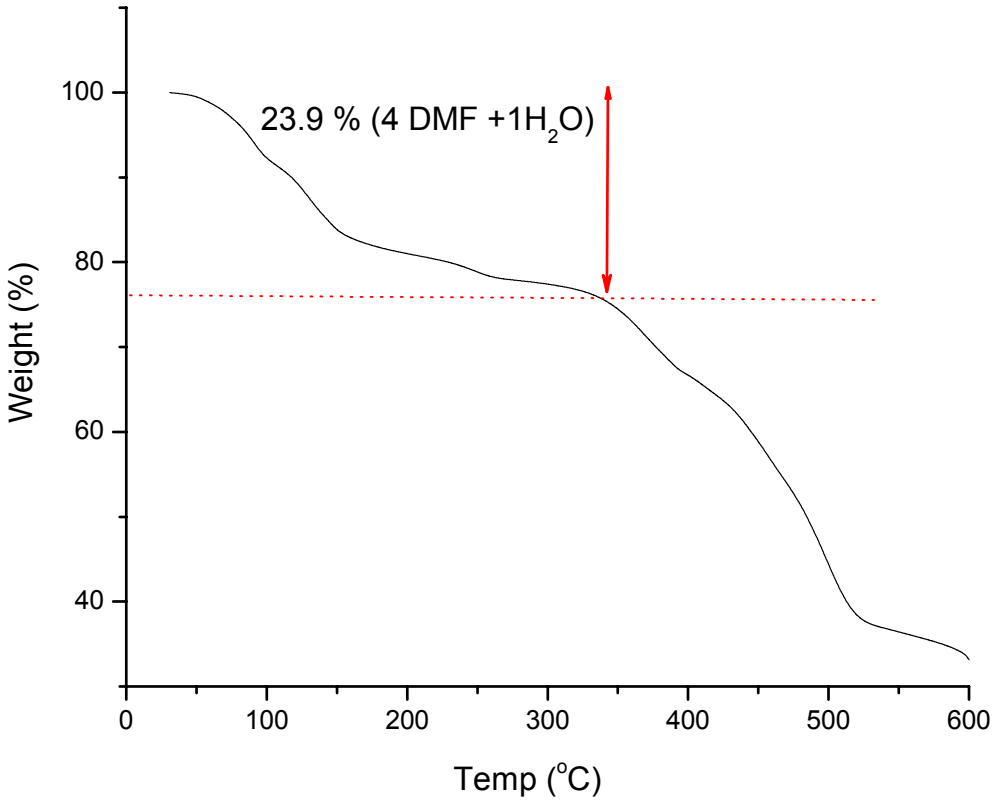

Figure S1. TGA data for PPF-6.

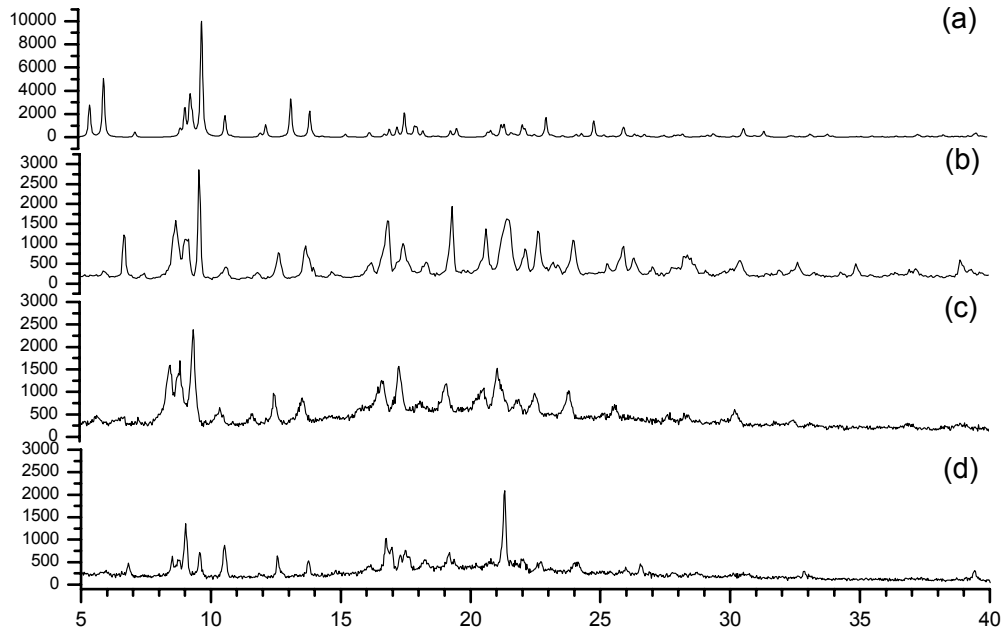

Figure S2. X-ray powder diffraction pattern of (a) the simulated pattern from single crystal data, (b) Zn/cis-DCPP/bpy system, (c) Zn/cis-ZnDCPP/bpy system, and (d) as synthesized PPF-6. Cell parameters from Zn/cis-DCPP/bpy system by single crystal x-ray diffraction: a = 32.789(14) Å, b = 16.546(7) Å, c = 12.554(6) Å, β = 91.134(6)°, V = 6809(8) Å^3 .