

**TIPA-ligand-based luminescent Cd(II) organic
frameworks as an outstanding sensor for detecting
Fe³⁺ in aqueous medium**

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Supporting Information

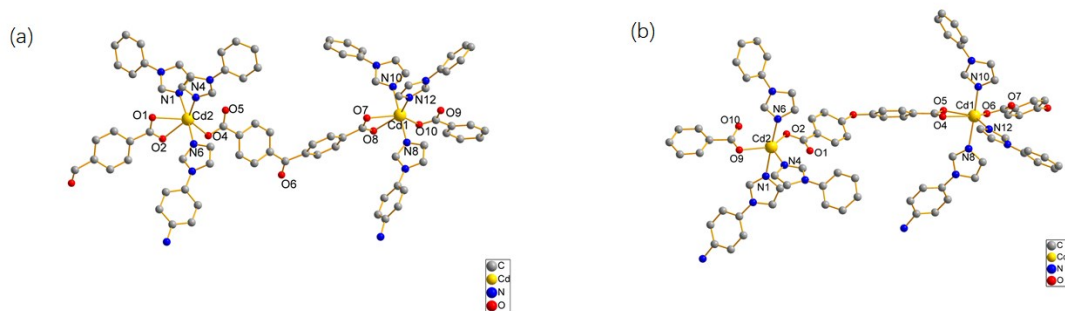


Fig. S1. (a) Coordination environment of MOF-1. (b) Coordination environment of MOF-2. The hydrogen atoms are omitted for clarity.

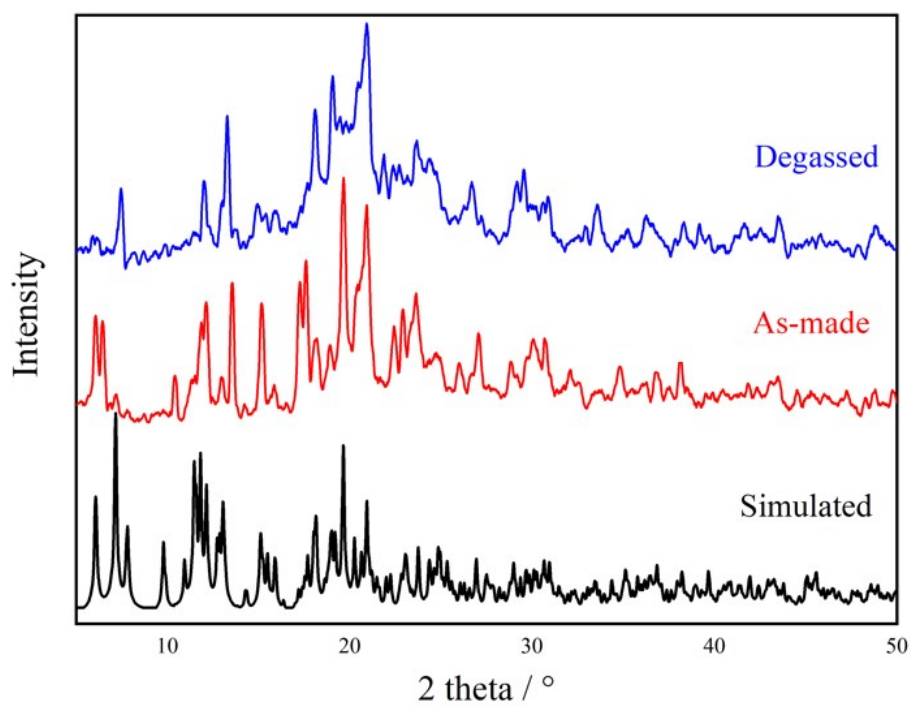


Fig. S2. PXRD patterns. From bottom to top: simulated 1, as made 1, degassed 1.

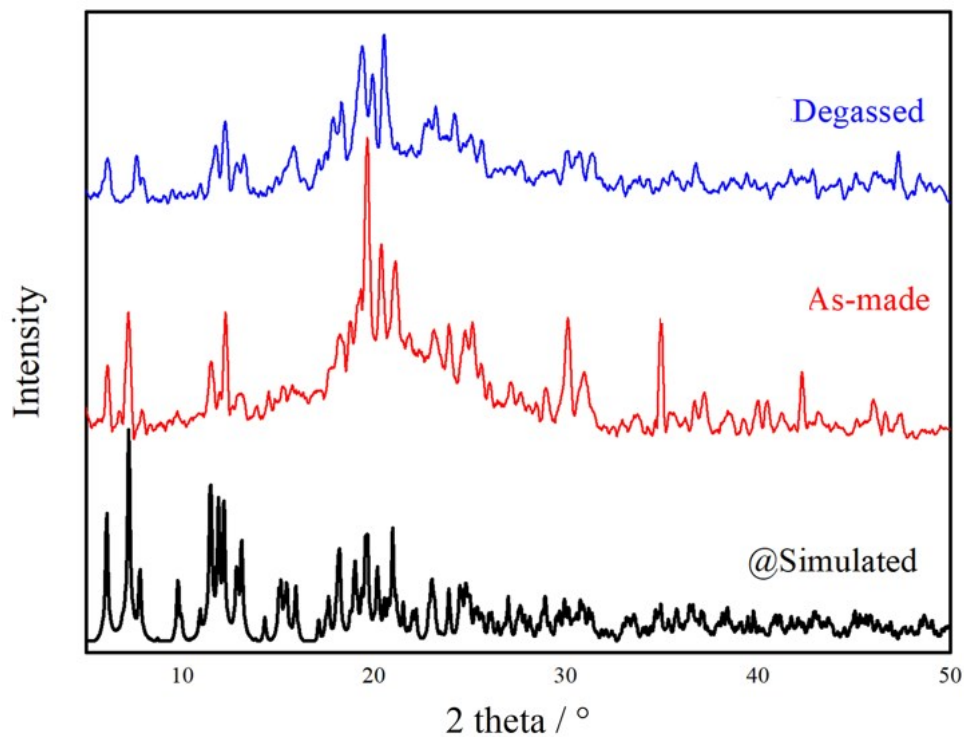


Fig. S3. PXRD patters. From bottom to top: simulated **2**, as made **2**, degassed **2**.

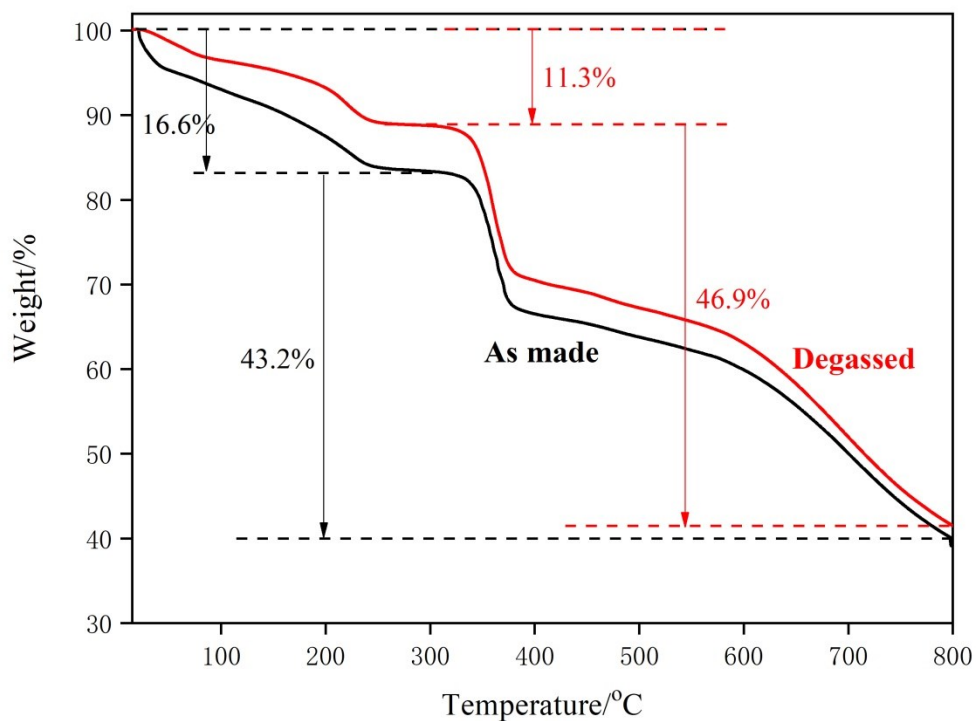


Fig. S4. TG profiles. From bottom to top: as made **1**, degassed **1**.

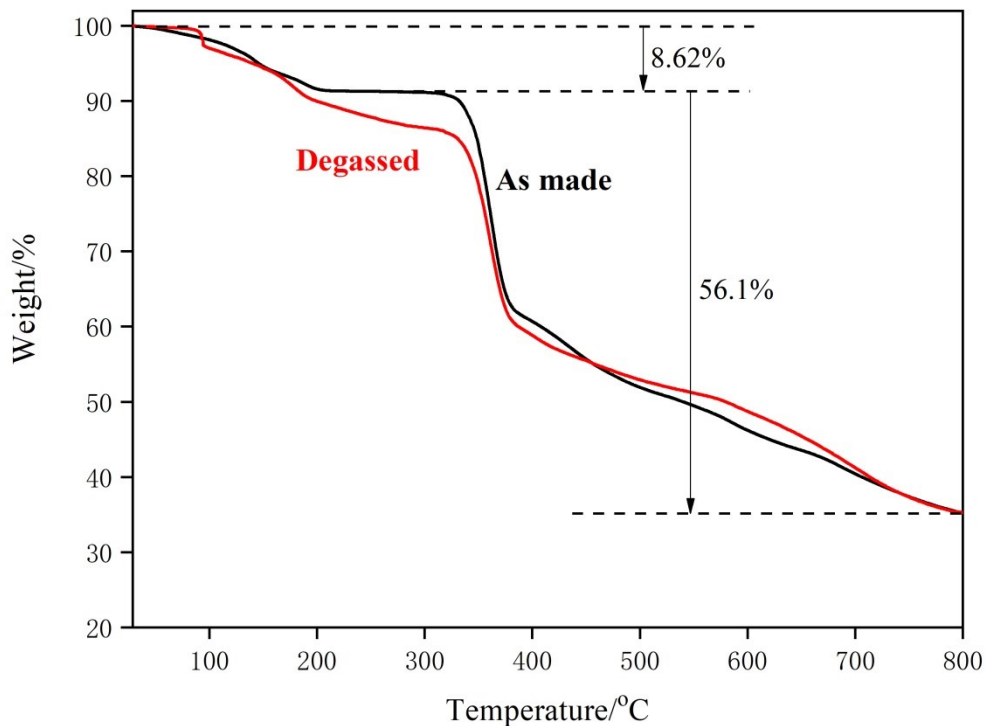


Fig. S5. TG profiles. From bottom to top: as made **2**, degassed **2**.

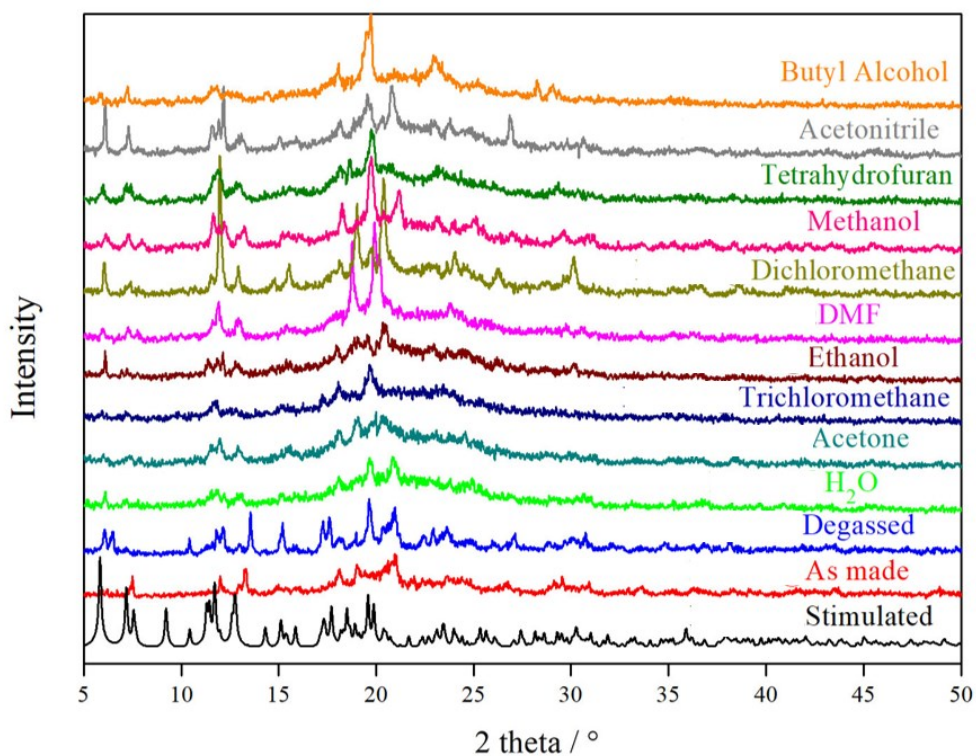


Fig. S6. The PXRD of MOF-1 soaked in the different solvents

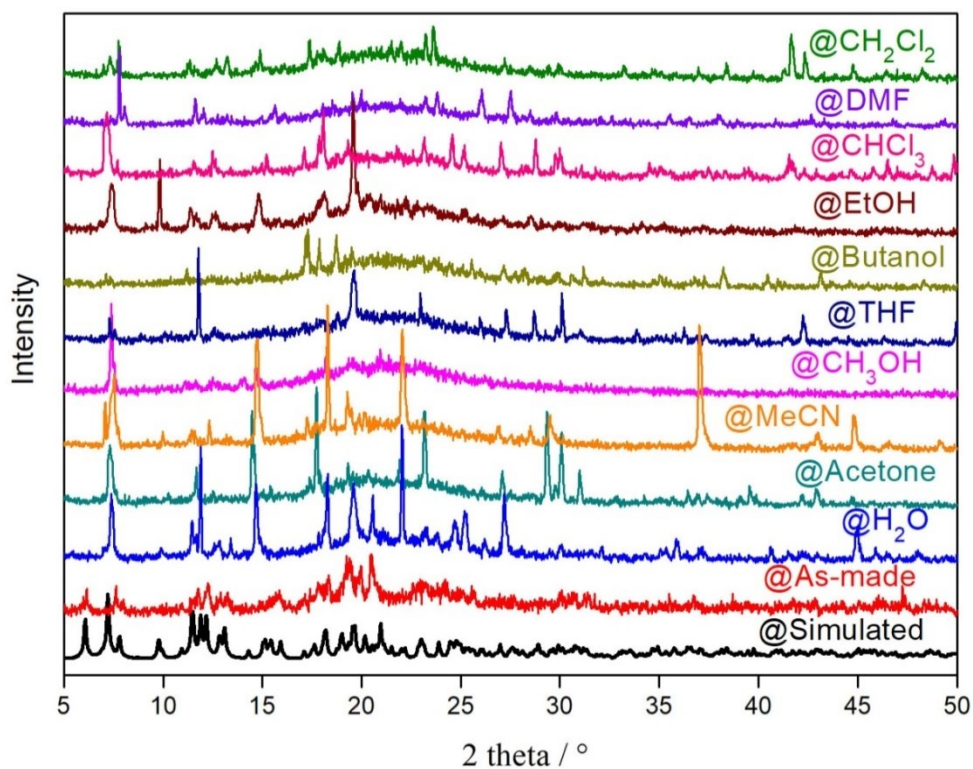


Fig. S7. The PXRD of MOF-2 soaked in the different solvent

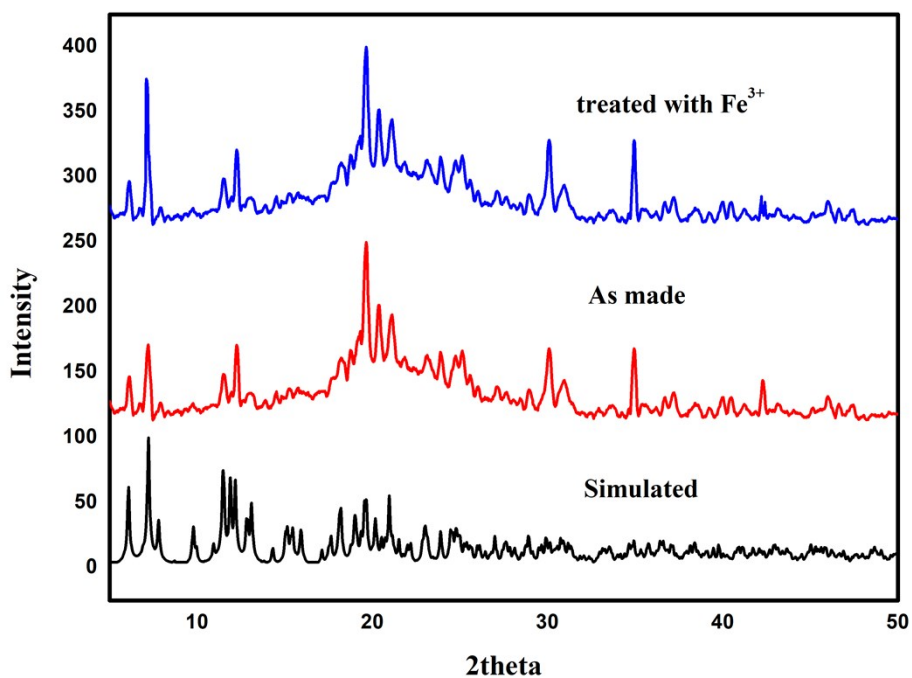


Fig. S8. PXRD patterns of simulated, as-made, 1 immersed in aqueous solution of Fe³⁺

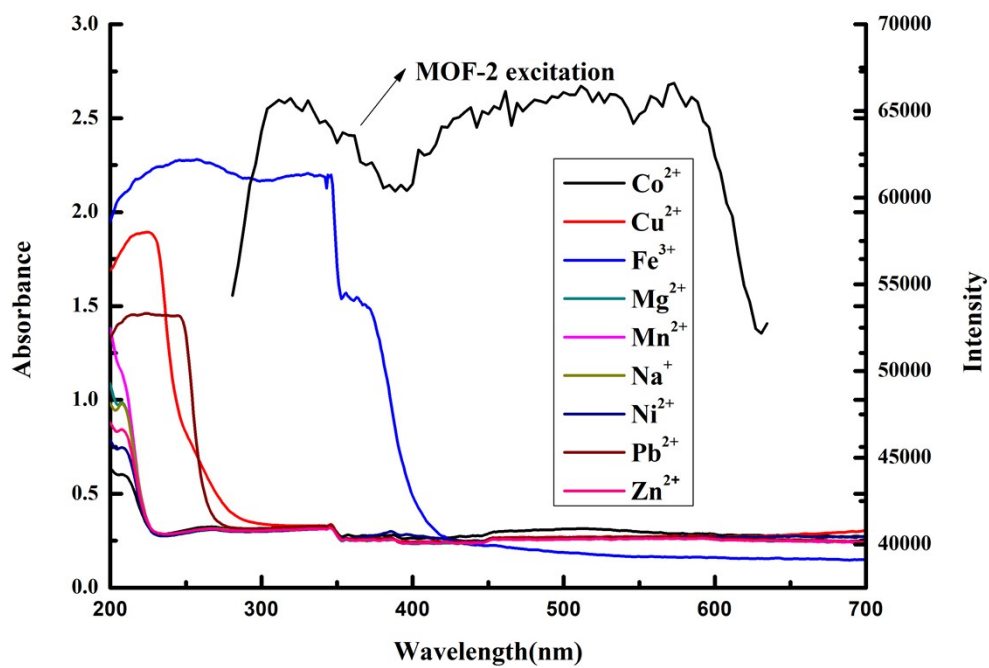


Fig. S9. The UV Vis spectra and fluorescence excitation spectra of aqueous solutions of MOF-2 of different metal ions