Supporting Information

A sensitive and selective non-enzymatic electrochemical sensor of Cu@Co-MOF composite for glucose detection

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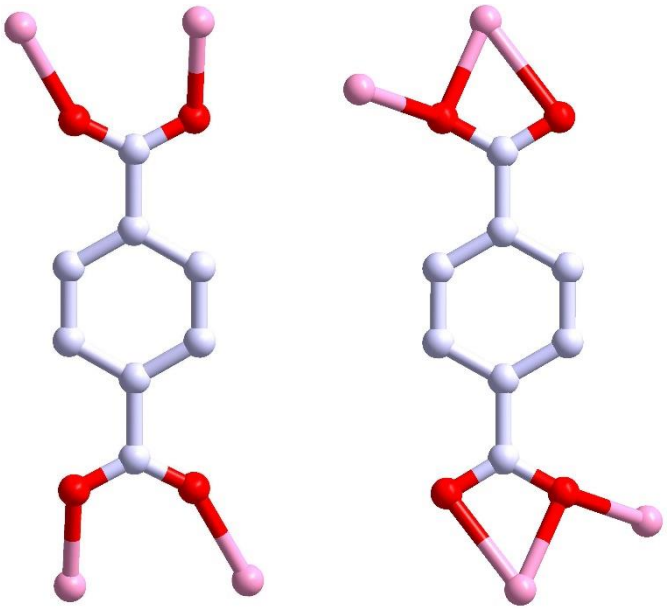

Figure S1. The coordination modes of BDC^{2-} ligand in Co-MOF.

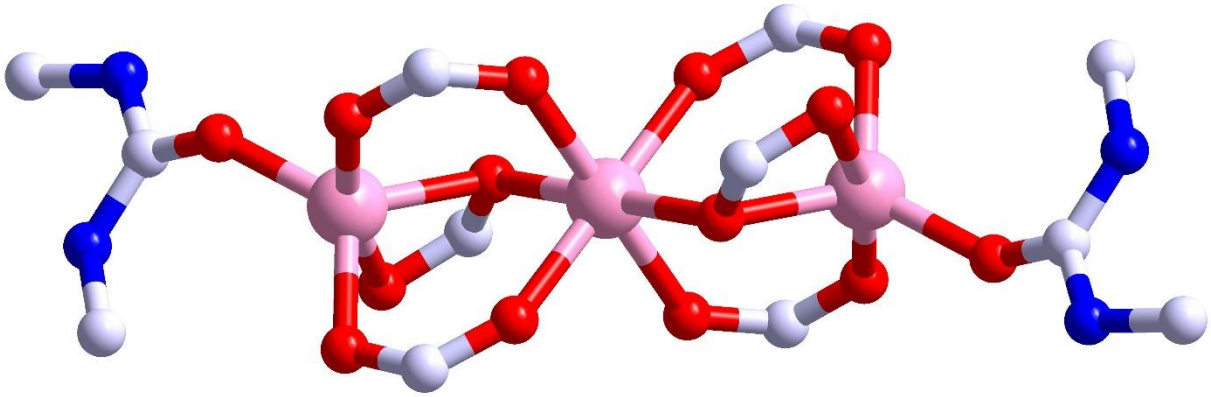

Figure S2. The structure motif of the linear trinuclear $[Co_3(COO)_6(DMU)_2]$ SBU.

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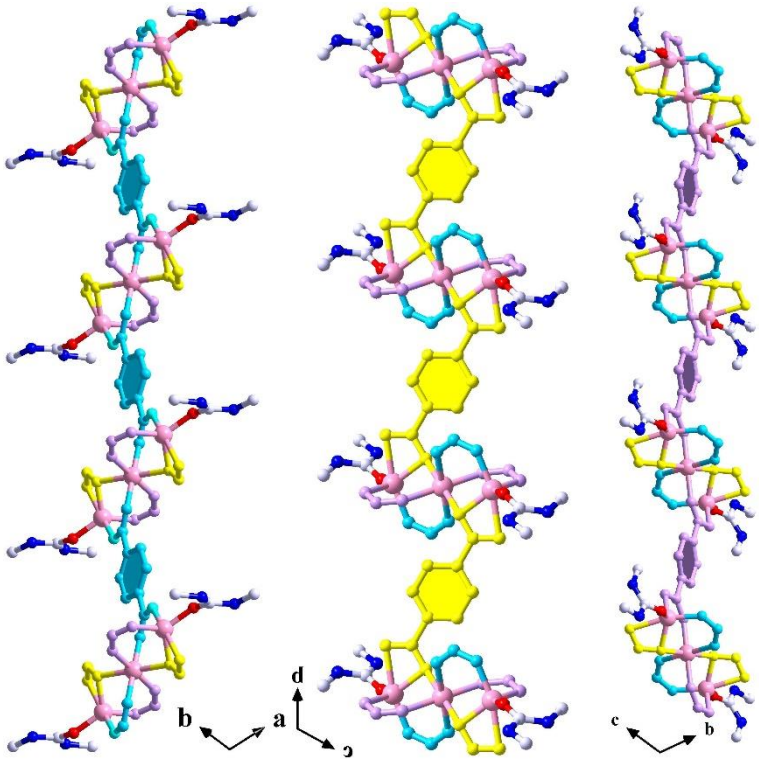

Figure S3. $[Co_3(COO)_6(DMU)_2]$ SBUs connect BDC^{2-} ligands with O11/O12 (a), O21/O22 (b), and O31/O32 (c) into three 1D chains along the [110], *b*- and [011] directions respectively.

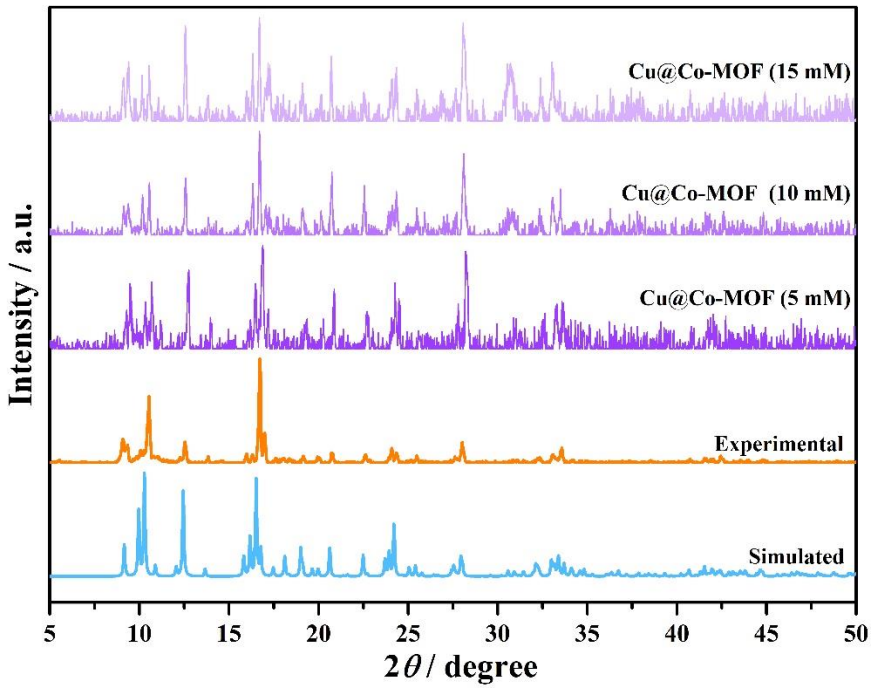

Figure S4. The experimental XRD patterns of Co-MOF and Cu@Co-MOF compared to the simulated Co-MOF.

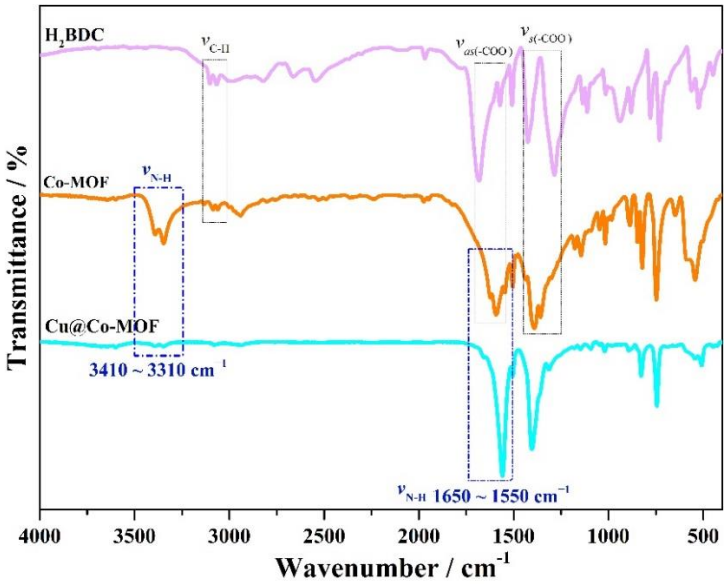

Figure S5. FT-IR spectra of Co-MOF, Cu@Co-MOF and free H_2BDC ligand.

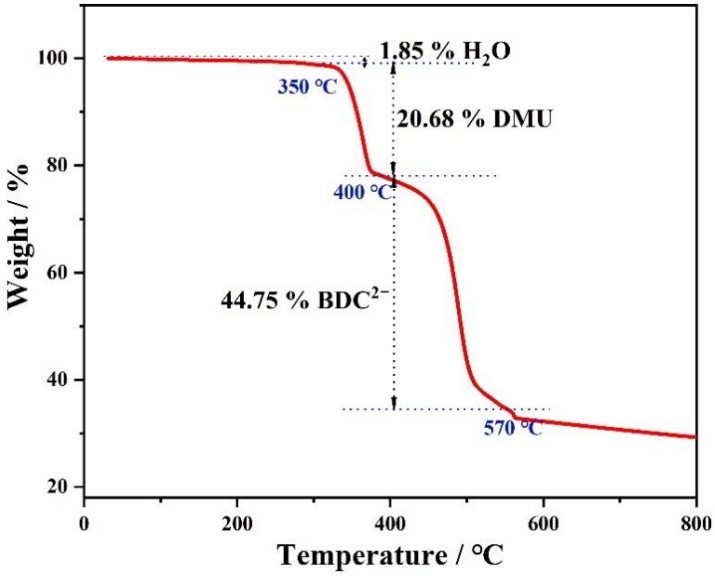

Figure S6. TGA curve of Co-MOF.

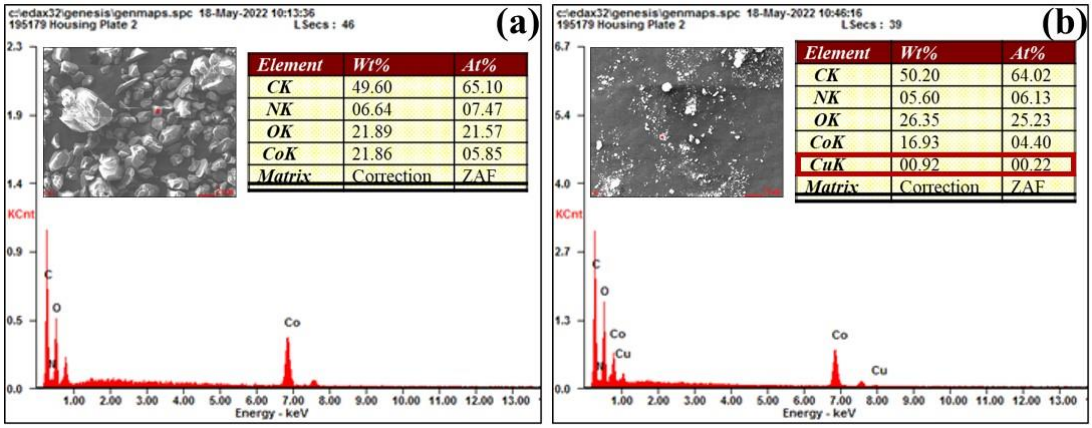

Figure S7. EDS of Co-MOF (a) and Cu@Co-MOF (b).