

Figure S1. N<sub>2</sub> sorption isotherms at 77 K of (a) Cu-BDC-NH<sub>2</sub> and (b) Cu-BDC-NH<sub>2</sub>-C4 samples, insets were the pore size distributions.

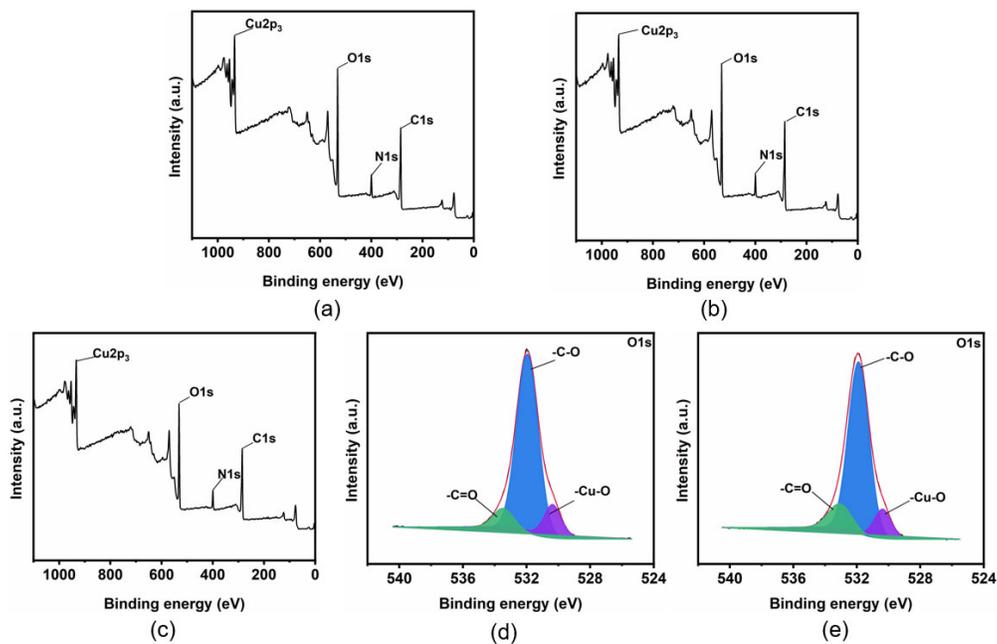


Figure S2. XPS full-survey scan of (a) pCu-BDC-NH<sub>2</sub>, (b) Cu-BDC-NH<sub>2</sub> and (c) Cu-BDC-NH<sub>2</sub>-C4, high-resolution XPS spectrum of the O1s orbital of (d) Cu-BDC-NH<sub>2</sub> and (e) Cu-BDC-NH<sub>2</sub>-C4

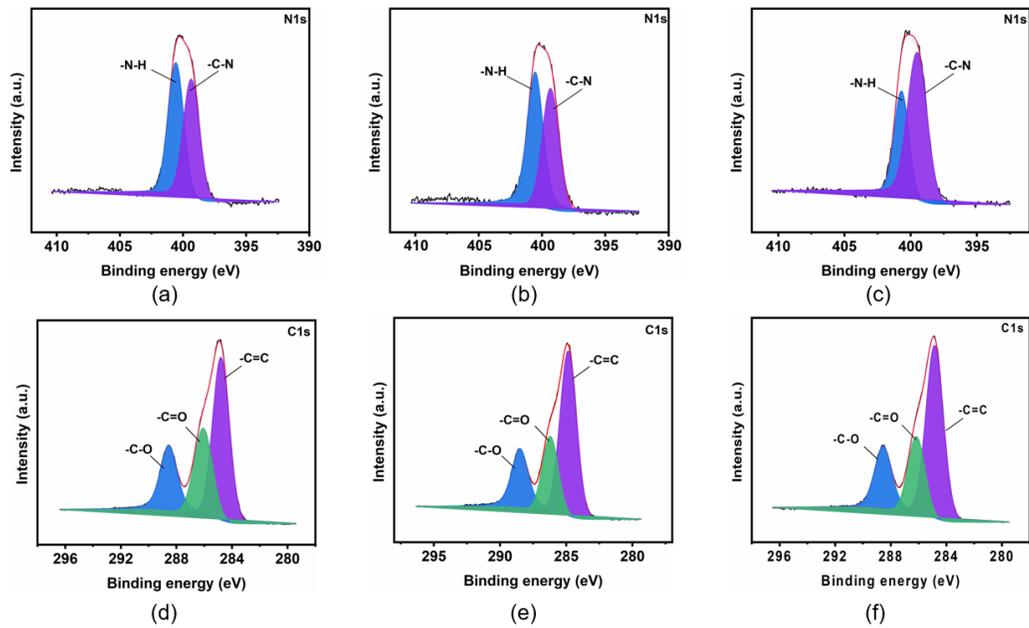


Figure S3. High-resolution XPS response of N1s of (a)Cu-BDC-NH<sub>2</sub>, (b)pCu-BDC-NH<sub>2</sub>, and (c) Cu-BDC-NH<sub>2</sub>-C4, and the response of C1s of (d) Cu-BDC-NH<sub>2</sub>, (e) pCu-BDC-NH<sub>2</sub>, and (f) Cu-BDC-NH<sub>2</sub>-C4.