

Supporting Information

A novel Cu-nanowire@Quasi-MOF via the mild pyrolysis of a bimetal-MOF for selective oxidation of benzyl alcohol in air

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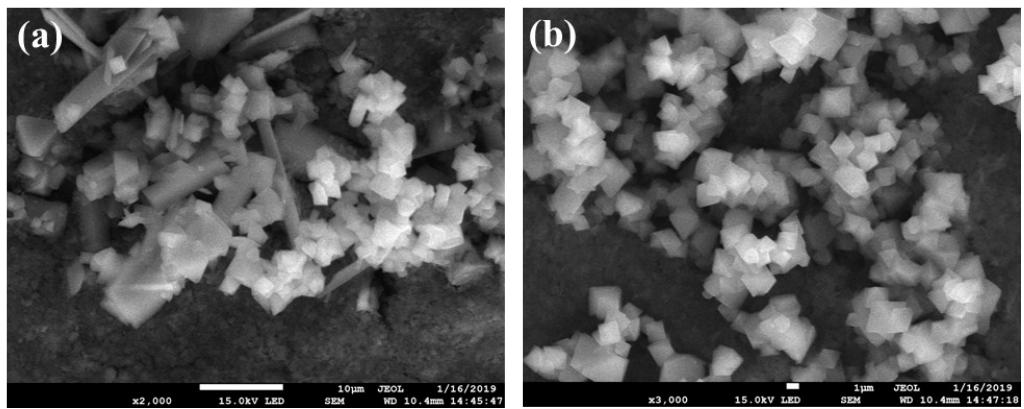


Fig. S1 FESEM images of Cu/Co bimetal-MOF with different ratio of Cu^{2+} and Co^{2+} : (a)

$\text{Cu}^{2+}/\text{Co}^{2+}=1/2$; (b) $\text{Cu}^{2+}/\text{Co}^{2+}=1/1$.

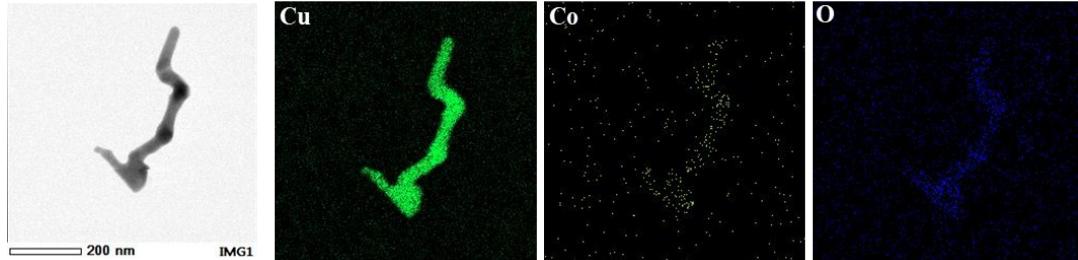


Fig. S2 TEM and EDX spectra images of the as-prepared Cu-nanowire.

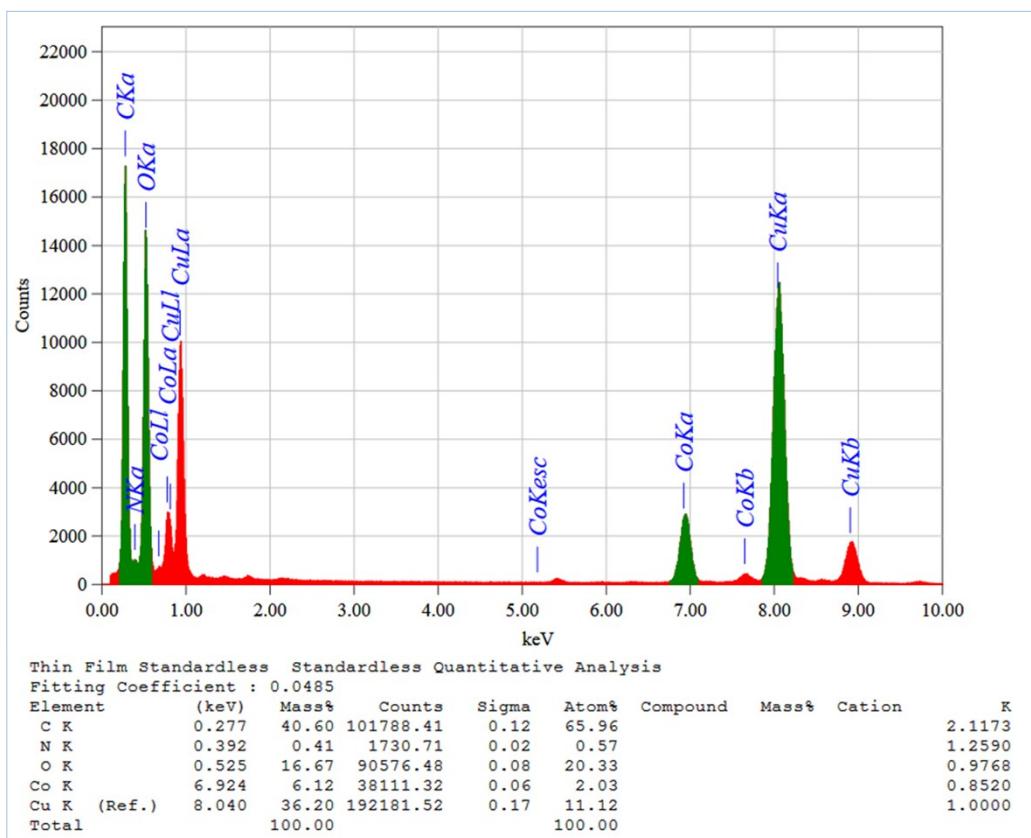


Fig. S3 EDS result of Cu-nanowire@Quasi-MOF.

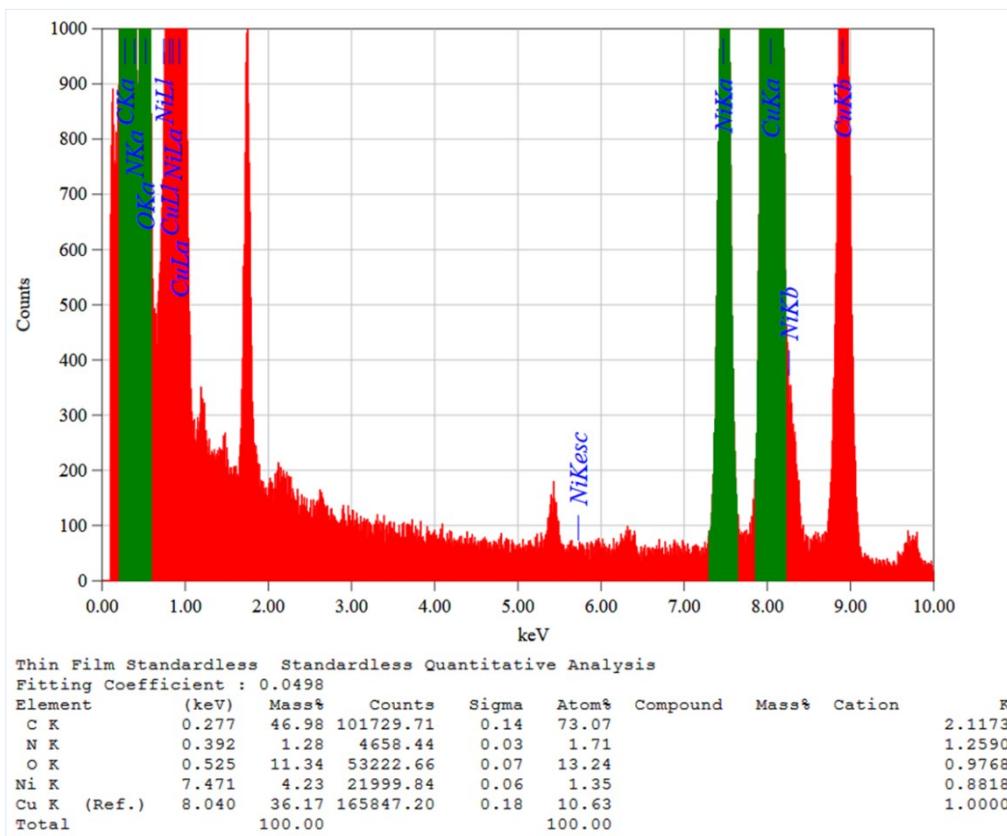


Fig. S4 EDX result of Cu/Ni bimetal-MOF(300).

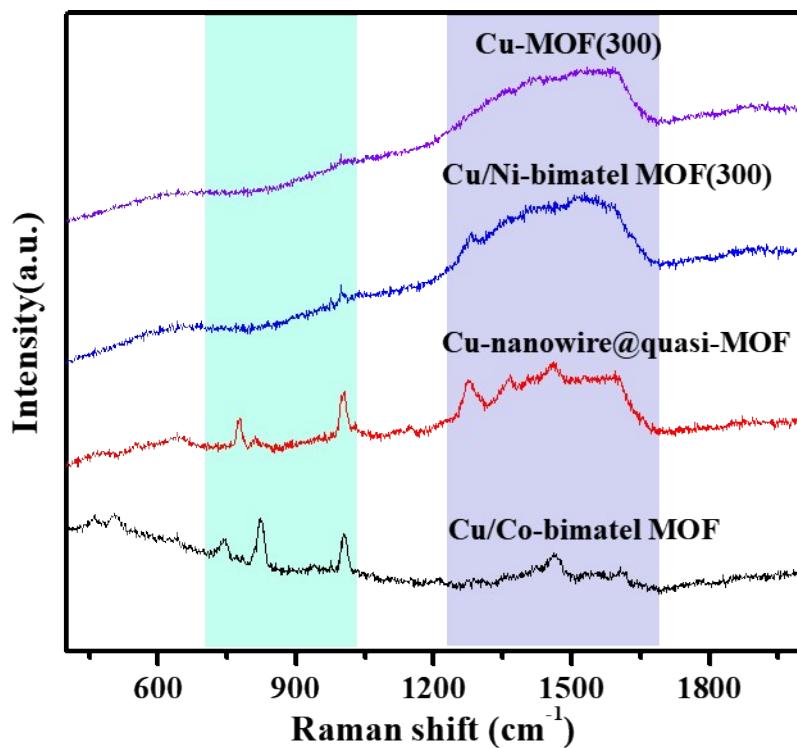


Fig. S5 Raman spectra of Cu/Co bimetal-MOF, Cu-nanowire@Quasi-MOF, Cu/Ni bimetal-MOF(300) and Cu-MOF(300).

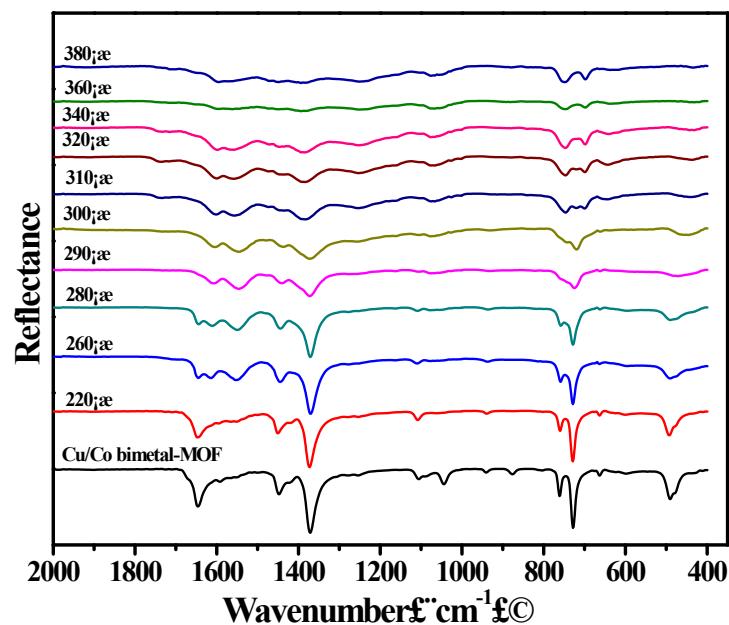


Fig. S6 The FTIR patterns of Cu/Co bimetal-MOF(x) under different annealing temperature.

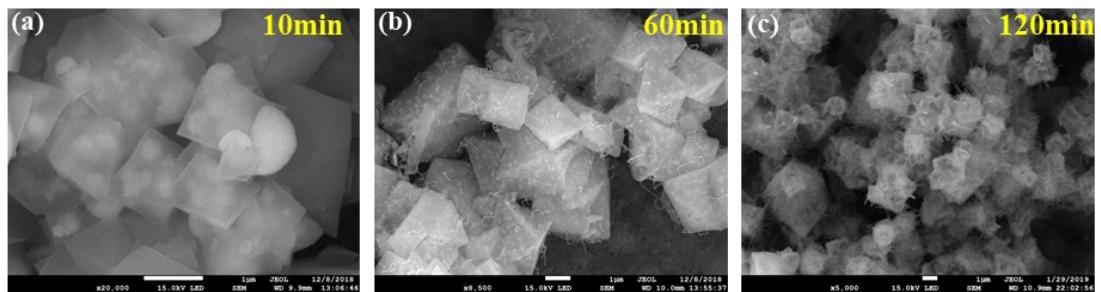


Fig. S7 Time-dependent morphology evolution study by FESEM images of Cu/Co bimetal-MOF (Annealing condition: 300°C, N₂).

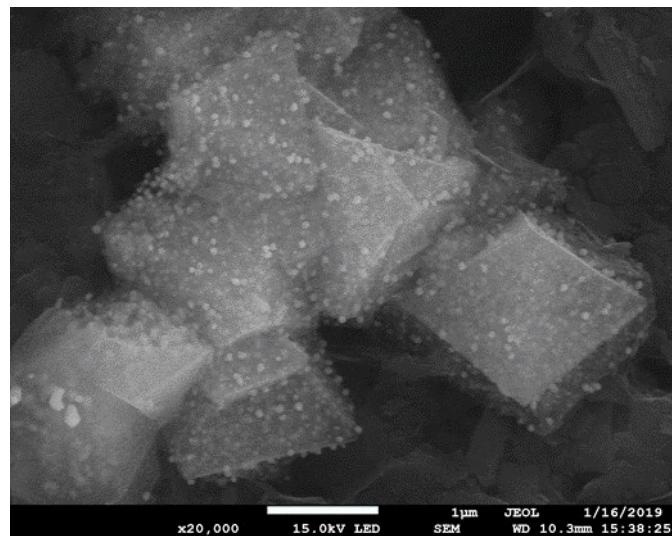


Fig. S8 FESEM image of Cu-nanowire@Quasi-MOF after four cyclic tests.