Supplementary Information

Application of Metal Organic Frameworks M(bdc)(ted)$_{0.5}$ (M = Co, Zn, Ni, Cu) in oxidation of benzyl alcohol

Ling Peng[a], Shujie Wu[a], Xiaoyuan Yang[a], Jing Hu[a], Xiaoran Fu[a], Qisheng Huo[b], Jingqi Guan[a]*

[a] Address, College of Chemistry, Jilin University, Changchun, 130023, P.R. China.
[b] Address, State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, Changchun 130012, P.R. China.
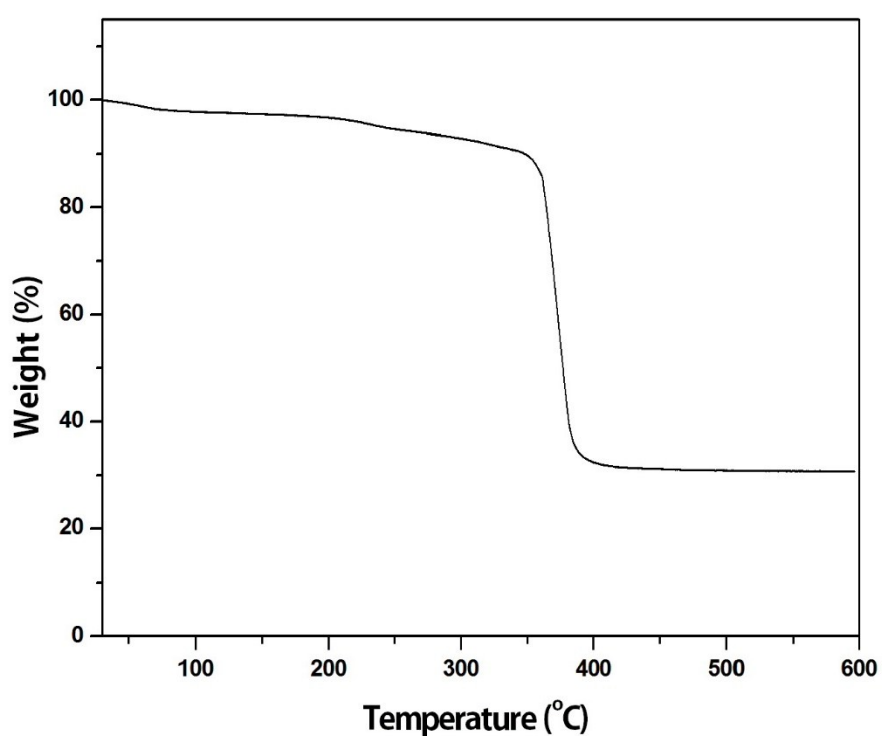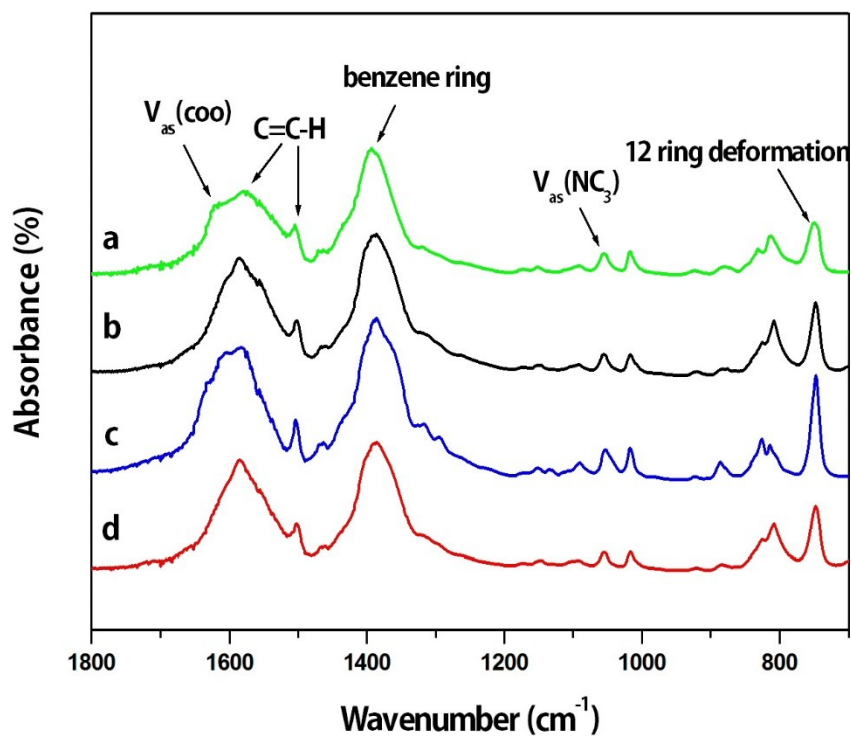
Fig. S1. TG curve of Co(bdc)(ted)$_{0.5}$.

Fig. S2. FT-IR spectra of (a) Cu(bdc)(ted)$_{0.5}$, (b) Zn(bdc)(ted)$_{0.5}$, (c) Co(bdc)(ted)$_{0.5}$ and (d) Ni(bdc)(ted)$_{0.5}$.
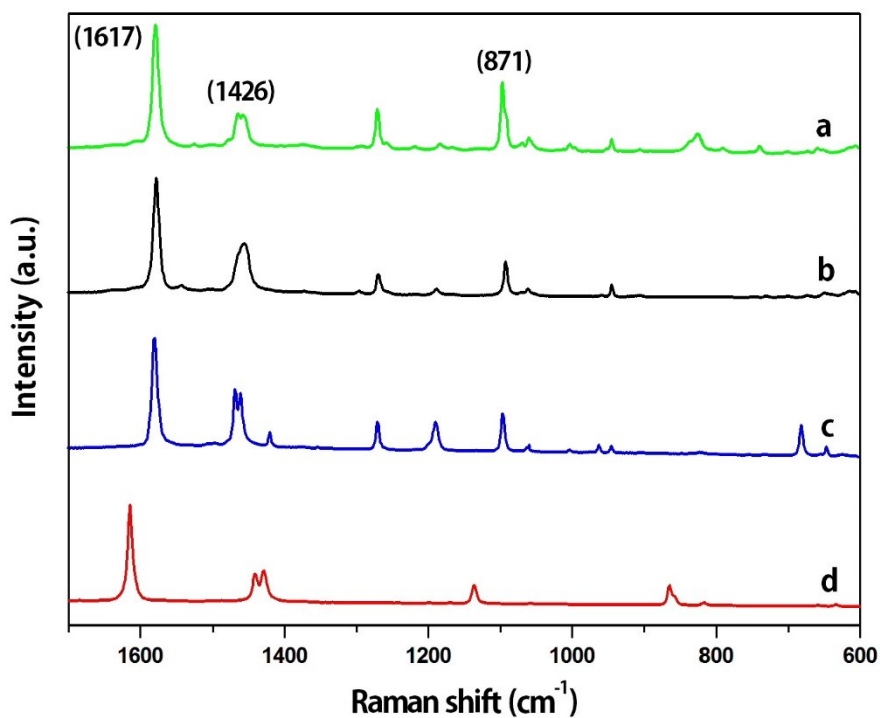
Fig. S3. Raman spectra of (a) Cu(bdc)(ted)$_{0.5}$, (b) Co(bdc)(ted)$_{0.5}$, (c) Zn(bdc)(ted)$_{0.5}$ and (d) Ni(bdc)(ted)$_{0.5}$.
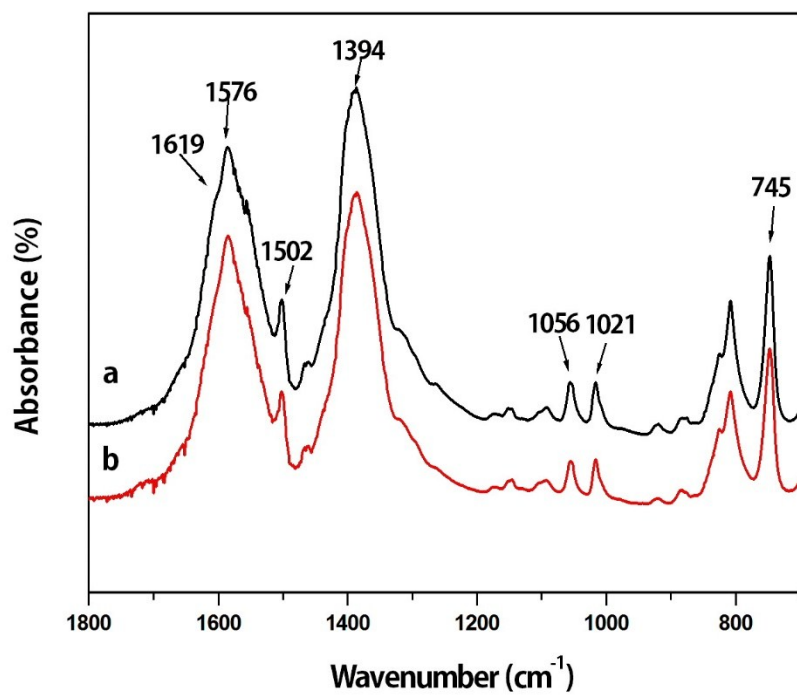
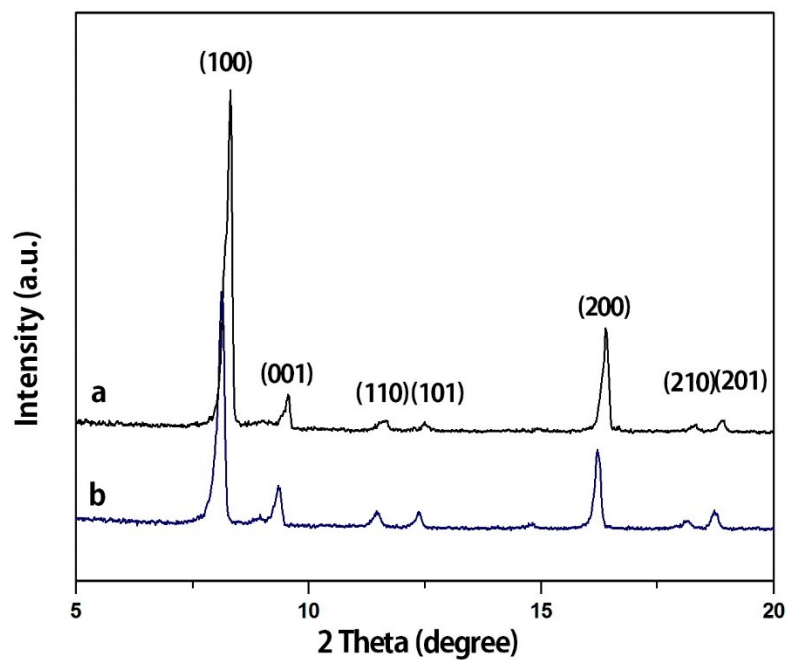**Fig. S4.** IR spectra of the fresh (a) and reused (b) Co(bdc)(ted)$_{0.5}$ catalyst.

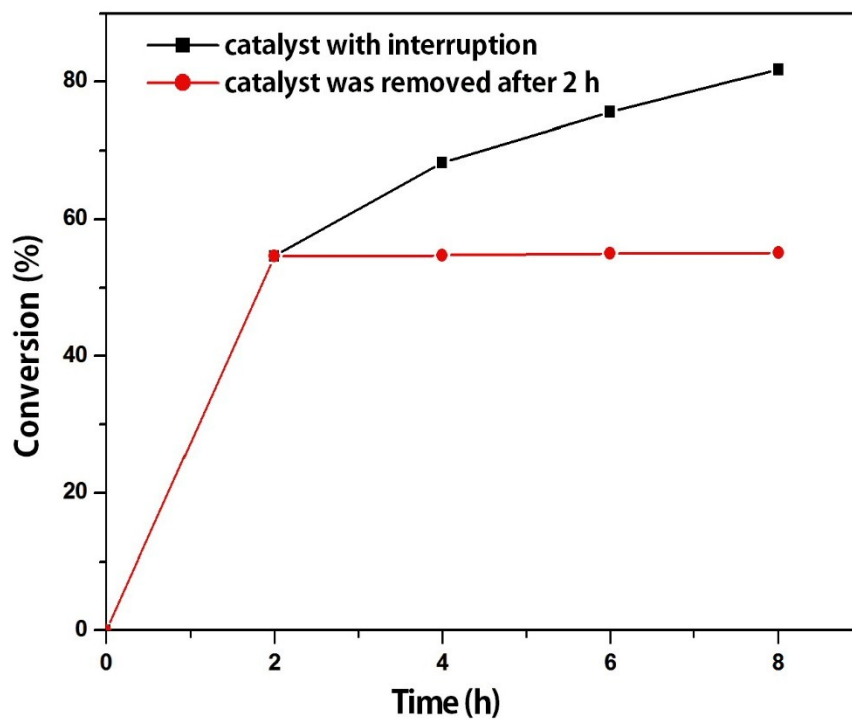**Fig. S5.** XRD spectra of the fresh (a) and reused (b) Co(bdc)(ted)$_{0.5}$ catalyst.

Fig. S6. Leaching experiment of Co(bdc)(ted)$_{0.5}$ catalyst.