

SUPPLEMENTARY INFORMATION

$\text{Cu}_3(\text{BTC})_2$: CO oxidation over MOF based catalysts

Jing-yun Ye and Chang-jun Liu*

Corresponding Author: dbdliu@yahoo.com.cn

Synthetic method of $\text{Cu}_3(\text{BTC})_2$ (BTC=benzene-1,3,5-tricarboxylate)

The $\text{Cu}_3(\text{BTC})_2$ used in this work was synthesized by Prof. Chongli Zhong's group at Beijing University of Chemical Technology, China. The sample was synthesized according to the method reported by Chowdhury *et al.*^{S1} The synthetic procedure is:^{S1} 1,3,5-benzenetricarb-oxylic acid was dissolved in a 1:1 mixture of ethanol and N,N-dimethylformamide (DMF), while $\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$ was dissolved in water. The two solutions were then mixed and stirred for 10 min. After that, the mixture was transferred into a Teflon-lined stainless steel autoclave that was heated at 373 K for 10 hrs. The reaction vessel was finally cooled down to room temperature. The obtained crystals were purified by filtration and extracted with methanol. The product was then dried at room temperature.

Reference

[S1] P. Chowdhury, C. Bikkina, D. Meister, F. Dreisbach, S. Gumma, *Microp. Mesop. Mater.*, **2009**, *117*, 406–413.