SUPPLEMENTARY INFORMATION

Cu$_3$(BTC)$_2$: CO oxidation over MOF based catalysts

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

The Cu$_3$(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-benzenetricarboxylic acid was dissolved in a 1:1 mixture of ethanol and N,N-dimethylformamide (DMF), while Cu(NO$_3$)$_2$·3H$_2$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