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## Supporting information

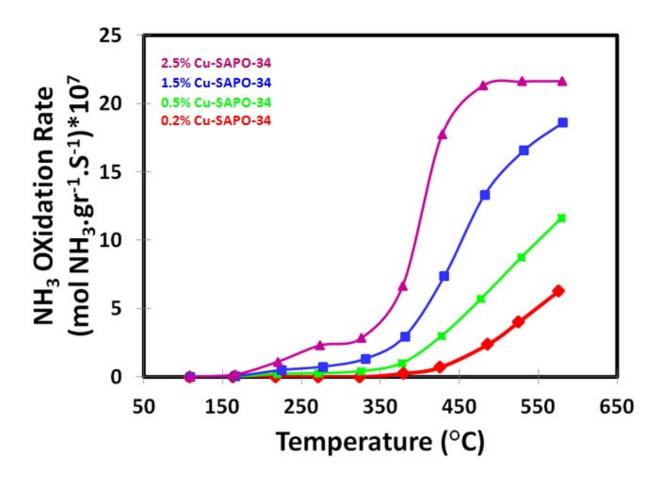


Figure S1.  $NH_3$  oxidation rate in the absence of  $SO_2$  as a function of temperature on Cu-SAPO-34 samples with different Cu loadings. Experiment conditions: 400 ppm  $NH_3$ , 10%  $O_2$  balanced with  $N_2$  at a GHSV of 50,000  $h^{-1}$ 

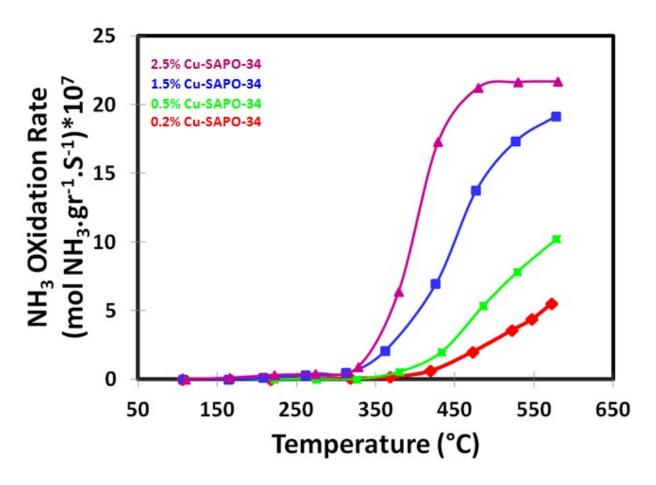


Figure S2.  $NH_3$  oxidation rate in the presence of 50ppm  $SO_2$  as a function of temperature on Cu-SAPO-34 samples with different Cu loadings. Experiment conditions: 50 ppm  $SO_2$ , 400 ppm  $NH_3$ , 10%  $O_2$  balanced with  $N_2$  at a GHSV of 50,000  $h^{-1}$ .

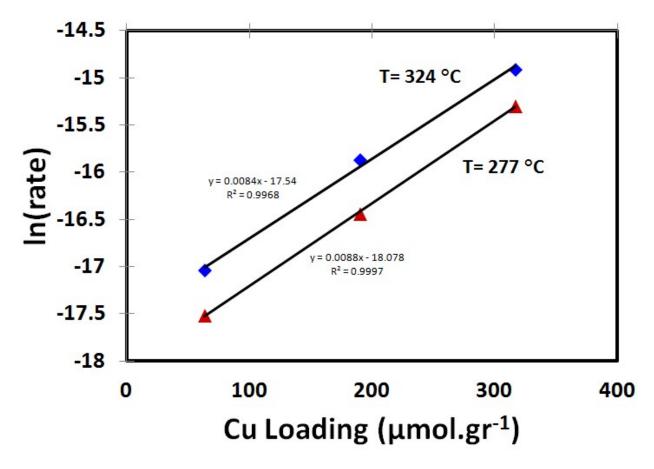


Figure S3.  $NH_3$  oxidation rates in the absence of  $SO_2$  as function of Cu loading at 277 and 324°C. Experiment conditions: 400 ppm  $NH_3$ , 10%  $O_2$  balanced with  $N_2$  at a GHSV of 50,000  $h^{-1}$ .