

Supplementary material for

Migration, reactivity, and sulfur tolerance of copper species in SAPO-34 zeolite toward NO_x reduction with ammonia

Xuesong Liu^{a,b*}, Xiaodong Wu^{b**}, Duan Weng^b, Zhichun Si^c, Rui Ran^b

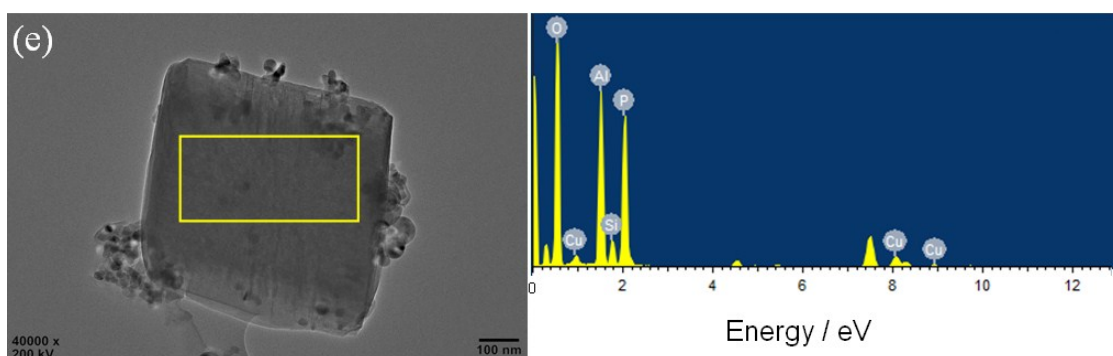
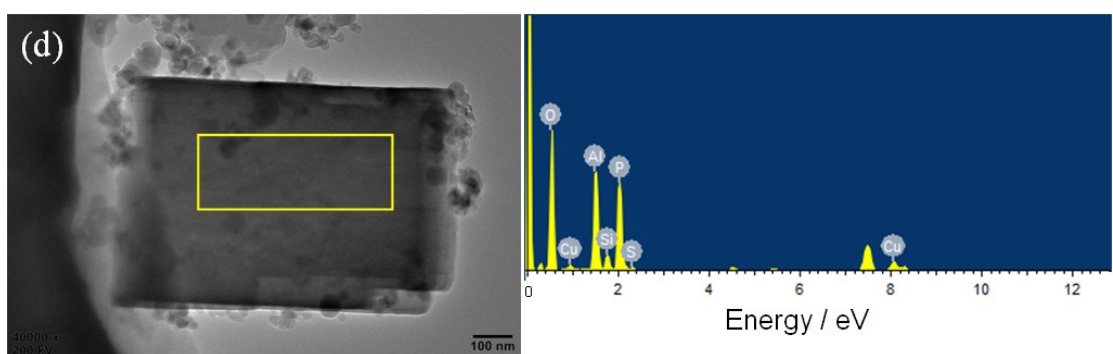
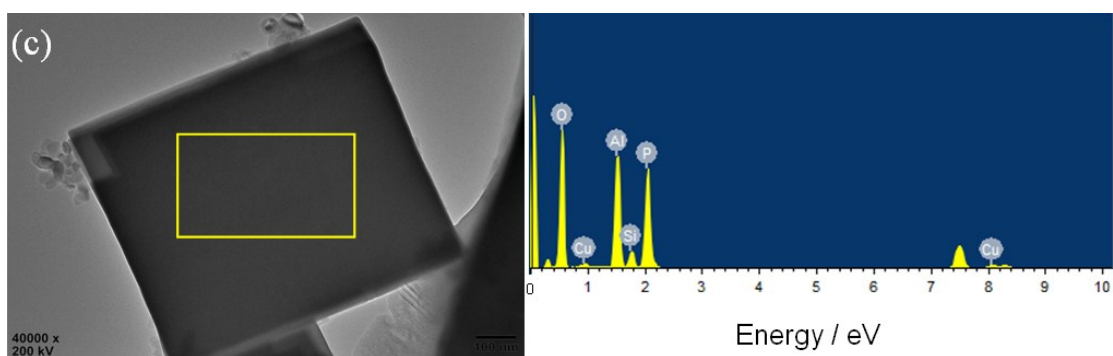
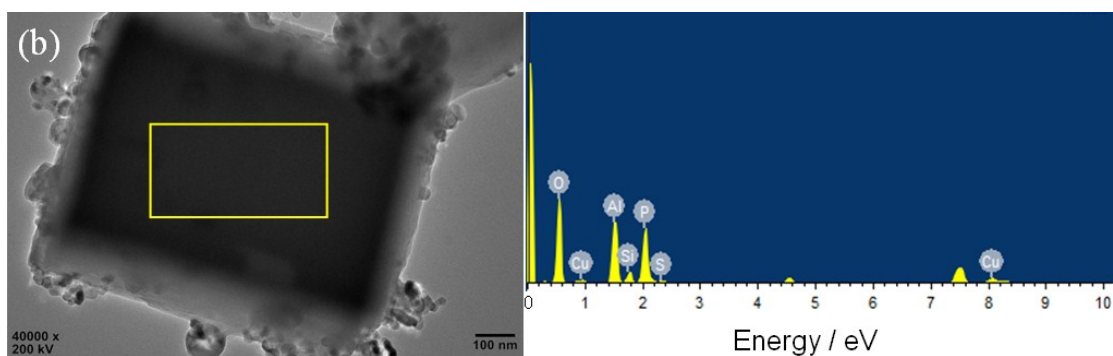
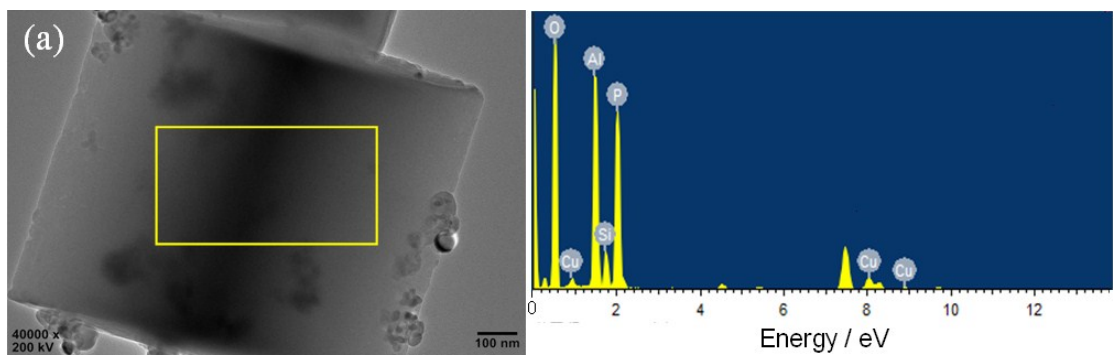
^a *College of Chemistry and Chemical Engineering, Shaoxing University, Zhejiang 312000, PR China*

^b *Key Laboratory of Advanced Materials of Ministry of Education, School of Materials Science and Engineering, Tsinghua University, Beijing 100084, PR China*

^c *Advanced Materials Institute, Graduate School at Shenzhen, Tsinghua University, Shenzhen 518055, China*

* Corresponding author. E-mail address: xuesongliu@usx.edu.cn (X. Liu);

** Corresponding author. E-mail address: wuxiaodong@tsinghua.edu.cn (X. Wu)



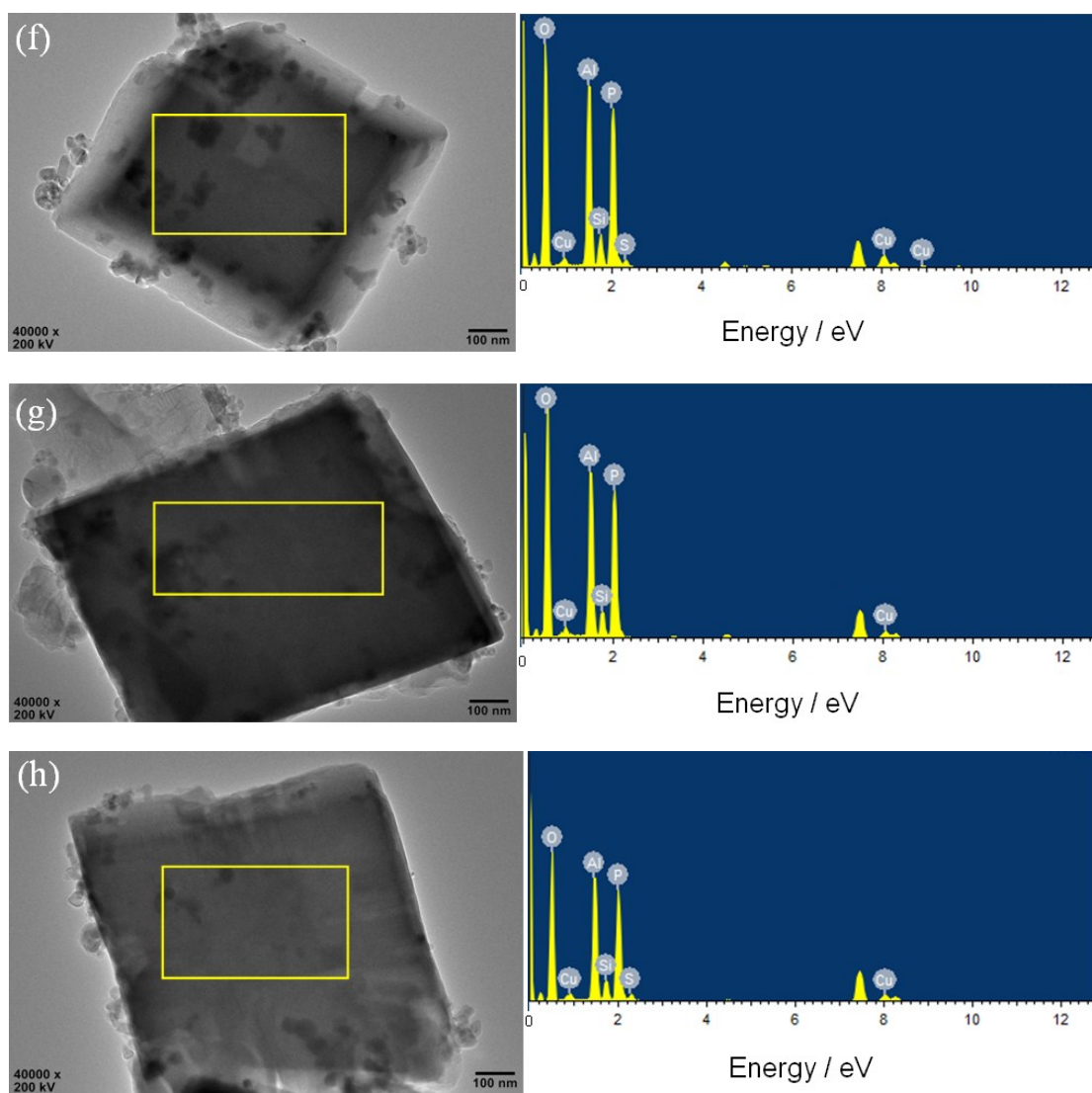


Fig. S1 TEM images and EDX spectra of (a) CuiF, (b) CuiF-s (c) CuiA, (d) CuiA-s (e) CueF, (f) CueF-s, (g) CueA and (h) CueA-s catalysts.

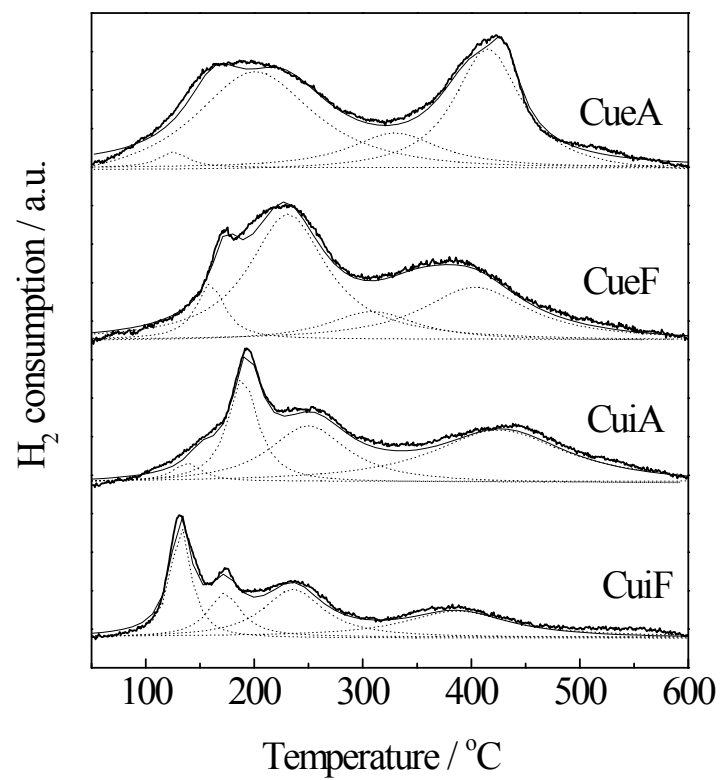
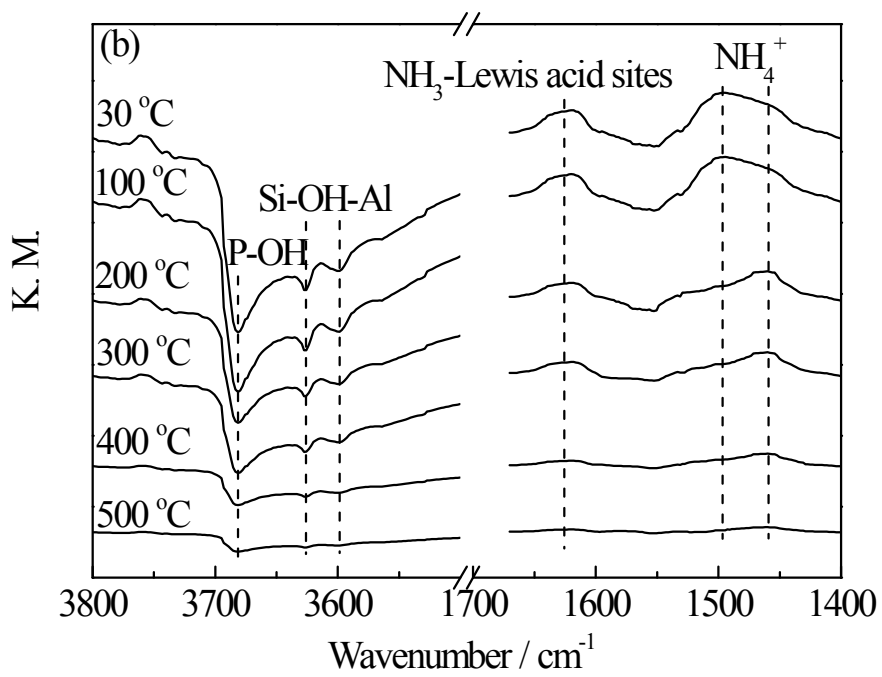
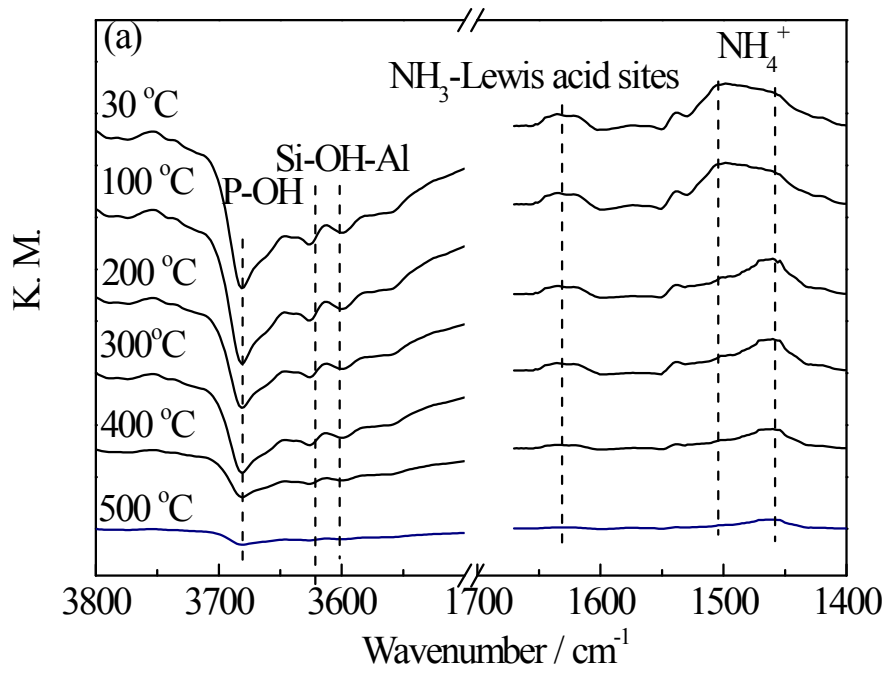


Fig. S2. H₂-TPR curves of Cu/SAPO-34 catalysts.



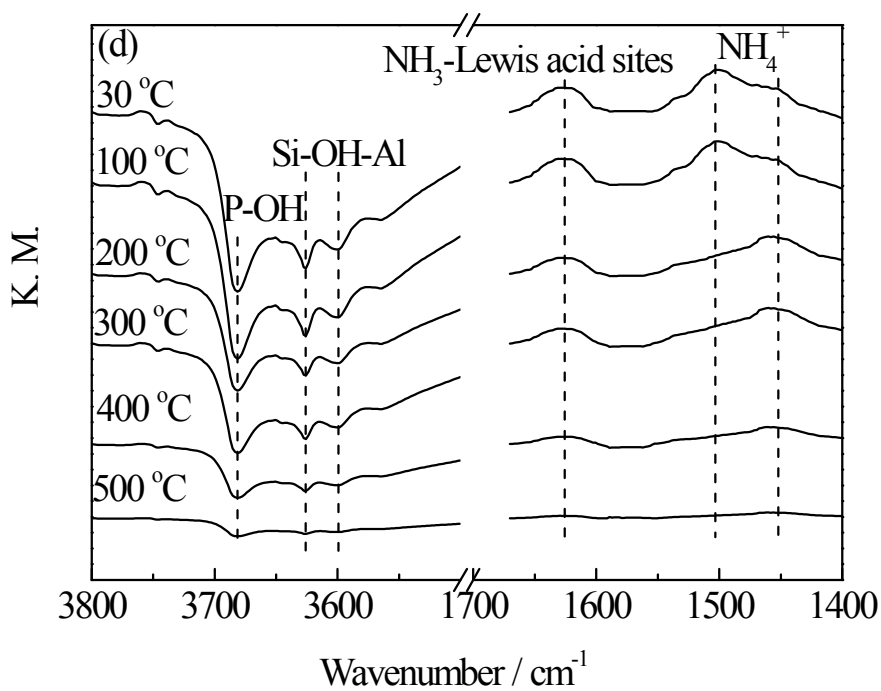
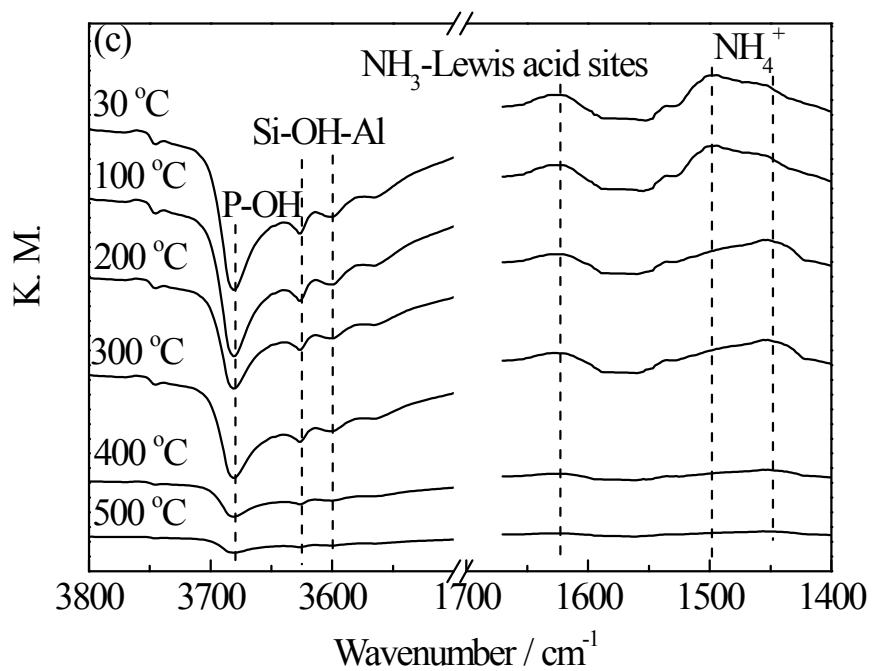


Fig. S3. DRIFT spectra of (a) CuiF, (b) CuiA, (c) CueF and (d) CueA catalysts exposed to NH₃/N₂ at different temperatures.