

Supplementary information

The Role and Activity of Various Adsorbed Ammonia Species on Cu/SAPO-34 Catalyst during Passive-SCR Process

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1. XRD results

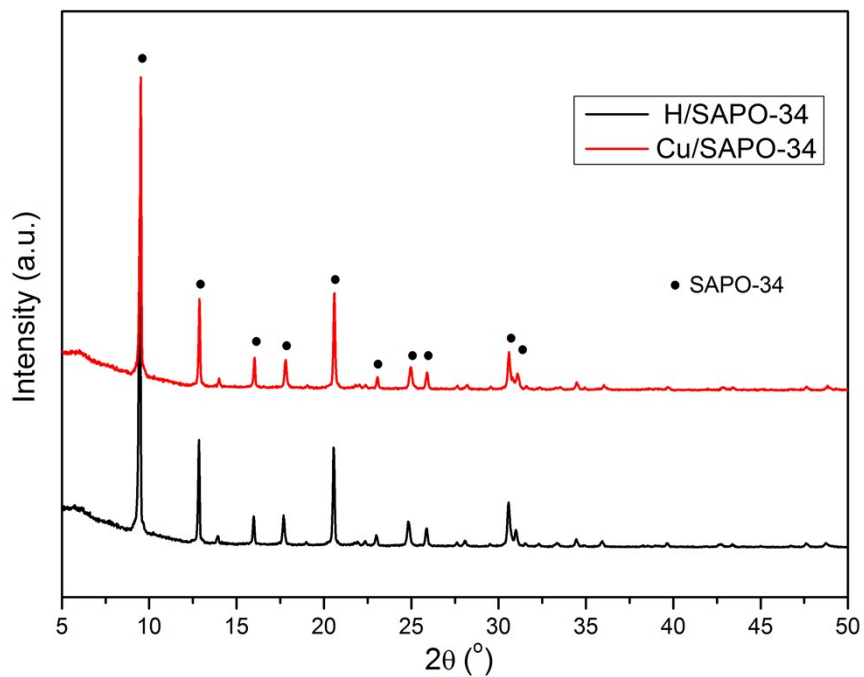


Fig. S1 XRD results of H/SAPO-34 support and Cu/SAPO-34 catalyst

2. ICP results

Table S1 ICP results of H/SAPO-34 support and Cu/SAPO-34 catalyst

Sample	Concentration (w.t. %)			
	Al	Si	P	Cu
H/SAPO-34	21.6	8.6	12.3	-
Cu/SAPO-34	21.4	8.6	12.2	1.7

3. Blank experiments for reliability

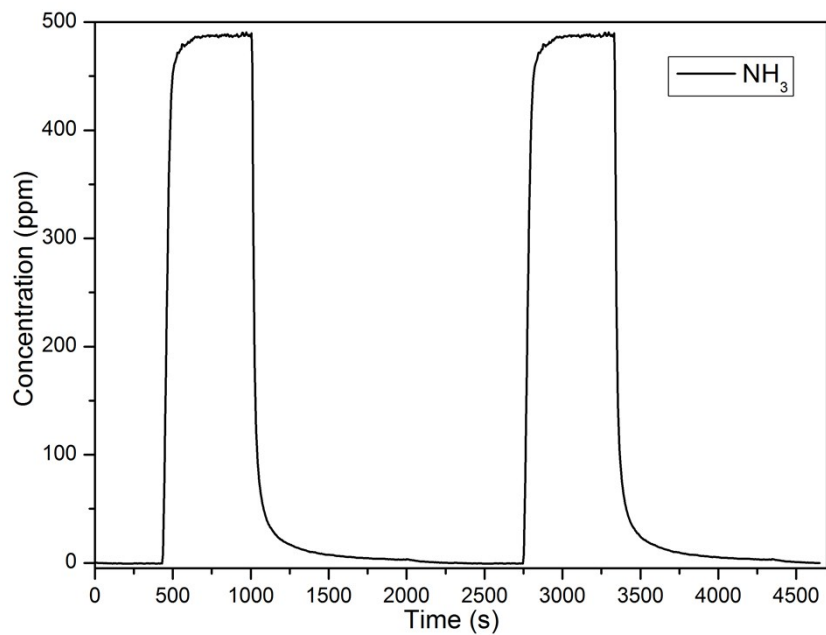


Fig. S2 blank experiment before adsorbed NH_3 titration by $\text{NO}+\text{O}_2$

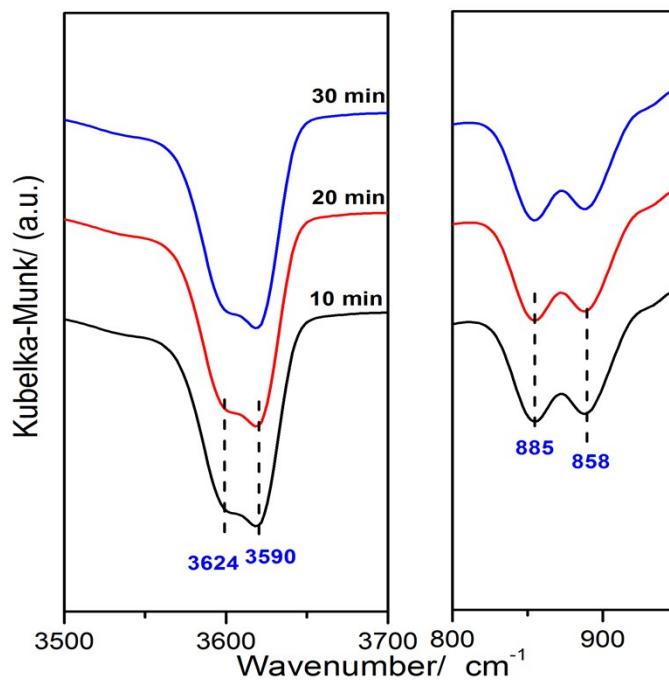


Fig. S3 DRIFTS spectra of Cu/SAPO-34 purged by Ar/He after NH_3 saturation (10 min, 20 min and 30 min)