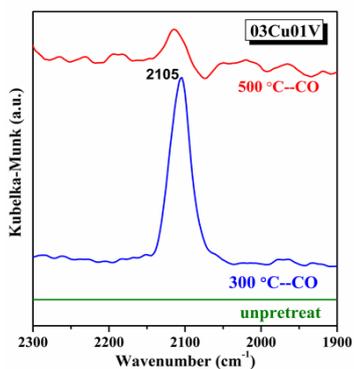


Effect of CO-pretreatment on the CuO-V₂O₅/γ-Al₂O₃ catalyst for NO reduction by CO

Yan Xiong,^{a,c} Xiaojiang Yao,^a Changjin Tang,^a Lei Zhang,^a Yuan Cao,^a Yu Deng,^b Fei Gao,^b Lin Dong^{*a, b}

5 Electronic Supplementary Information (ESI) available:

Figure S1 DRIFTS of un-pretreated 03Cu01V and pretreated by CO at 300 or 500 °C



10 Figure S2 Integrated intensity of Cu⁺-CO peaks in *in situ* FT-IR spectra over the catalysts as a function of temperature

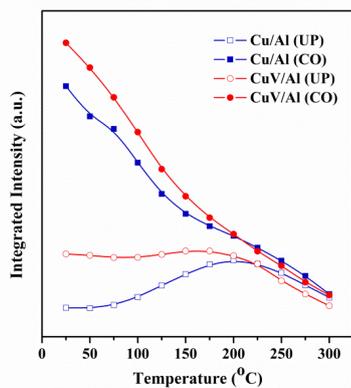


Figure S3 Conversions of 03Cu06V and 03Cu09V after CO-pretreated at different temperatures

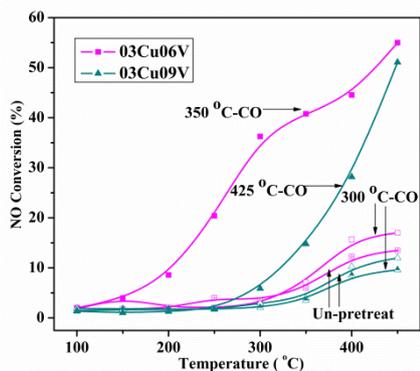


Table S1 Peak centers and peak areas of $x\text{Cu}_y\text{V}$ catalysts in H_2 -TPR profiles

Samples	01V	03Cu	03Cu005V	03Cu01V	03Cu03V	03Cu06V	03Cu09V
Peak center (°C)	490	215	248	240	242	265	292
Peak area (a.u.)	15.08	48.46	68.01	88.51	122.94	181.74	238.95

Table S2 EPR spin Hamiltonian parameters of surface copper and vanadium species in 01V, 03Cu and 03Cu01V samples

Sample	Signal	$g_{//}$	g_{\perp}	$A_{//}$ (G)	A_{\perp} (G)
03Cu(UP)	Cu^{2+}	2.330	2.079	147	40
01V(CO)	V^{4+}	1.911	Not resolved	155	Not resolved
03Cu01V(UP)	Cu^{2+}	2.334	2.054	156	Not resolved
03Cu01V(CO)	V^{4+}	1.904	2.009	168	54
