

Reference 27, b): Supplementary information:

Table S1

Catalytic performance of SCR of NO by C₃H₈ over Al₂O₃ and CoO_x/Al₂O₃:

Catalyst	Temperature	X _{NO} ^a	X _{C₃H₈} ^b	X _{NO} :X _{C₃H₈}	NOCF ^c
	(K)	(%)	(%)		(%)
Al ₂ O ₃	573	1.9	-	-	-
	623	10.1	1.7	5.9	59.4
	673	23.1	6.7	3.4	34.3
	723	55.9	22.0	2.5	25.4
CoO _x /Al ₂ O ₃	573	5.5	1.2	4.6	45.8
	623	22.7	8.3	2.7	27.3
	673	98.8	43.2	2.3	22.9
	723	100	60.9	1.6	16.4

^a NO conversion: $([\text{NO}]_{\text{inlet}} - [\text{NO}]_{\text{outlet}}) / [\text{NO}]_{\text{inlet}} \times 100\%$;

^b C₃H₈ conversion: $([\text{C}_3\text{H}_8]_{\text{inlet}} - [\text{C}_3\text{H}_8]_{\text{outlet}}) / [\text{C}_3\text{H}_8]_{\text{inlet}} \times 100\%$;

^c NO competitiveness factor: $([\text{NO}]_{\text{inlet}} - [\text{NO}]_{\text{outlet}}) / \{10 \times ([\text{C}_3\text{H}_8]_{\text{inlet}} - [\text{C}_3\text{H}_8]_{\text{outlet}})\} \times 100\%$.