

## Support Information

### NO reduction by CO over NiO<sub>x</sub>/CeO<sub>2</sub> catalyst with fixed Ni surface density: Pretreatment effect on catalyst structure and catalytic activity

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**Table S1.** Catalytic performance comparison with previous works for the NO reduction by CO reaction.

Catalyst	Gas composition		GHSV (ml/g/h)	T <sub>NO,50</sub> * (°C)	T <sub>CO,50</sub> ** (°C)	Ref.
	NO (%)	CO (%)				
Pt/CeO <sub>2</sub>	0.5	0.5	31,200	333	344	1
Cr/CeO <sub>2</sub>	0.15	0.15	120,000	498	403	2
FeO <sub>x</sub> /CeO <sub>2</sub>	5	5	60,000	228	442	3
CuO/CeO <sub>2</sub>	0.5	0.5	30,860	222	294	4
CuO/CeO <sub>2</sub>	5	10	24,000	140		5
CuO/CeO <sub>2</sub>	5	10	12,000	125		6
CuO/CeO <sub>2</sub>	5	10	15,000	139		6
CuO/CeO <sub>2</sub>	5	10	18,000	157		6
NiO/CeO <sub>2</sub>	5	5	120,000	172	148	7
NiO/γ-Al <sub>2</sub> O <sub>3</sub>	0.25	0.25	45,000	446	438	7
NiO/TiO <sub>2</sub>	0.25	0.25	45,000	480	470	7
Pd/CeZrO <sub>2</sub>	1	1	150,000	102	140	8
Pd/Al <sub>2</sub> O <sub>3</sub>	1	1	150,000	279	298	8
CuO/MnO	5	10	24,000	167	340	9
MnO <sub>x</sub>	5	10	24,000	215	400	9
CeZrO	5	10	12,000	375		10
CuO/CeZrO	5	10	12,000	211		10
CuO/TiO <sub>2</sub>	6	6	42,000	290		11
CuO/ZrO <sub>2</sub> /TiO <sub>2</sub>	6	6	42,000	207		11
<b>5.3 NiO<sub>x</sub>/CeO<sub>2</sub>-400Oxi</b>	5	5	60,000	165	175	<b>This Study</b>

\* Reaction temperature at which 50% of the NO was converted.

\*\* Reaction temperature at which 50% of the CO was converted.

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