Supporting Information

Pt/SSZ-13 as an efficient catalyst for the selective catalytic reduction of NO_x with H_2

Zhe Hong †[a, c], Xianyong Sun †[b], Zhong Wang [c], Guoqing Zhao [a], Xuebing Li [c, *], Zhirong Zhu [a, *]

[a] *School of Chemical Science and Engineering, TongJi university, Shanghai 200082, China;*

[b] *Jiangsu Sinocera-Tiannuo New Matrial Technology Co., Ltd., Zhenjiang 212000, China;*

[c] *Key Laboratory of Biofuels, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao 266101, China;*

*Corresponding author

E-mail address: zhuzhirong@tongji.edu.cn; lixb@qibebt.ac.cn.

Table S1 Summaries of the catalytic activity over Pt catalysts in the literature for H_2-SCR

Catalysts	Reaction condition	NO_x conversion (%)	T_{max} (°C)	Refs
Pt/SSZ-13	1000ppm NO_x, 5000ppm H_2, 10% O_2, N_2 balance	81	100	This study
Pt/SAPO-34	1000ppm NO_x, 5000ppm H_2, 10% O_2, N_2 balance	59	120	This study
Pt/ZSM-5	1000ppm NO_x, 5000ppm H_2, 10% O_2, N_2 balance	70	120	This study
Pt/MgO-CeO_2	1000ppm NO_x, 10000ppm H_2, 5% O_2, He balance	80	150	[23]
Pt/ZSM-35	1000ppm NO_x, 5000ppm H_2, 6% O_2, N_2 balance	80	120	[13]
Pt/TiO_2	2500ppm NO_x, 10000ppm H_2, 5% O_2, He balance	81	200	[24]
Pt-MnO_x	500ppm NO_x, 8000ppm H_2, 5% O_2, He balance	64	100	[25]
Pt/C	1000ppm NO_x, 5000ppm H_2, 2% O_2, N_2 balance	55	120	[26]
Pt/SiO_2	500ppm NO_x, 20000ppm H_2, 6% O_2, N_2 balance	75	90	[27]
Pt/Al_2O_3	500ppm NO_x, 20000ppm H_2, 6% O_2, N_2 balance	50	140	[12]