



Department: School of Chemical Engineering
Professional field: Chemical Engineering and Technology
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Profile

Education

2009: PhD, Chemical Engineering, National University of Singapore (NUS).

2003: ME, Chemical Engineering, Tianjin University, China.

1997: BE, Industrial Catalysis, Tianjin University, China.

Academic Experience

9.2014-present: Professor of School of Chemical Engineering, East China University of Science and Technology (ECUST)

12.2009-8.2014: Associate Professor of School of Chemical Engineering, ECUST.

5.2008-11.2009: Postdoctoral fellow, National University of Singapore (NUS).

Research Field

Mainly engaged in the energy and environmental field catalysis and reaction engineering research.

Research interests include: Development and application of C 1 Chemical Engineering, advanced oxidation process for wastewater advanced treatment, and dynamic in situ (Operando) characterization.

Research results and selected published papers

- (1)Xiao-man Zhang, Pengfei Tian, Weifeng Tu, Zhenzhou Zhang, Jing Xu,* and Yi-Fan Han*, "Tuning the Dynamic Interfacial Structure of Copper-Ceria Catalysts by Indium Oxide during CO Oxidation", ACS Catal., 2018, 8, 5261-5275
- (2)Yulong Zhang, Donglong Fu, Xianglin Liu, Zhengpai Zhang, Chao Zhang, Bianfang Shi, Jing Xu*, and Yi-Fan Han*, "Operando Spectroscopic Study of Dynamic Structure of Iron Oxide Catalysts during CO₂ Hydrogenation", ChemCatChem, 2017, 10,1272
- (3)Yiyi Sheng, Yang Sun, Jing Xu*, Jie Zhang, Yi-fan Han*. 'Fenton-like degradation of rhodamine B over highly durable Cu-embedded alumina: Kinetics and mechanism.' AIChE Journal, 2018,64,538-549
- (4)Zhengpai Zhang, Weiwei Dai, Xinchao Xu, Jun Zhang, Bianfang Shi, Jing Xu*, Weifeng Tu, Yi-fan Han*. "MnO_x Promotional Effects on Olefins Synthesis Directly from Syngas over Bimetallic Fe-MnO_x/SiO₂ Catalysts." AIChE Journal., 2017,63,4451-4464
- (5)Zhengpai Zhang, Jun Zhang, Xu Wang, Rui Si, Jing Xu*, Yi-Fan Han*, Promotional Effects of Multi-Walled Carbon Nanotube on Iron Catalysts for Fischer-Tropsch to Olefins, J. Catal., 2018, 365,71-85
- (6)Pengfei Tian, Xingyan Xu, Jing Xu*, Yi-fan Han*. 'Direct and Selective Synthesis of Hydrogen Peroxide over Palladium–Tellurium Catalysts at Ambient Pressure.' Chemsuschem, 2017,10,3342-3346.
- (7)Wei Mao, Junjie Su, Zhengpai Zhang, Xin-Chao Xu, Weiwei Dai, Donglong Fu, Jing Xu*, Xinggui Zhou, Yi-Fan Han*, Kinetics study of C₂+ oxygenates synthesis from syngas over Rh–MnO_x/SiO₂ catalysts, Chem. Eng. Sci., 2015, 135, 312-322.