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Professional field: Chemical Engineering and Technology  
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## Profile

### Education

1996: PhD, Chemical Technology, ECUST, China.  
1993: MS, Chemical Technology, ECUST, China.  
1987: BS, Chemistry, Northwest University, China.

### Academic Experience

2006-present: Professor, School of Chemical Engineering, ECUST, China.  
2008: Senior visiting scholar, ESQIE, Instituto Politécnico Nacional, Mexico.  
2000-2006: Associate professor, School of Chemical Engineering, ECUST, China.  
2002-2003: Senior visiting scholar, Tokyo University of Agriculture and Technology, Japan.  
1996-1999: Lecturer, School of Chemical Engineering, ECUST, China.

## Research Field

1. Carbon chemical industry
2. New petrochemical technology
3. Coal chemical industry

## Research results and selected published papers

1. Jun Xu, Limei Chen, Tong Geng, Mannian Ren, Shizhong Wang, Zhijun Song, Fahai Cao\*. Spherical Polymer Brushes Bearing Imidazole Groups as Novel Nickel Remover for Crude Oil [J]. Fuel, 2018, 226:47-53.
2. Yan Yuqiang, Zhang Yiyang, Jiang Tao, Xiao Tiancun, Edwards Peter P., Cao Fahai\*. Glycerol hydrogenolysis over a Pt-Ni bimetallic catalyst with hydrogen generated in situ[J]. RSC Advances, 2017, 7(61): 38251-38256.
3. Li X A, Ren M N, Cao F H\*. Demulsification using an electric field after crude oil desalination by ethylene glycol extraction[J]. Petroleum Science & Technology, 2017, 35(6):547-552.
4. Yuqiang Yan, Limei Chen, Jinshan Xu, Mannian Ren, Jianwen Da, Fahai Cao\*. The micro-explosion strength of emulsified heavy oil droplets in catalytic cracking process[J]. Chemical Engineering and Processing: Process Intensification, 2016, 109: 90-96.
5. Zheng Wan, Jian Jiang, Hongfang Ma, Yakun Li, Yong Lu, Fahai Cao\*. A study of the heat transfer characteristics of novel Ni-foam structured catalysts[J]. The Canadian Journal of Chemical Engineering, 2016, 94(11): 2225-2234.
6. Jiang Tao, Kong Danni, Xu Kun, Cao Fahai\*. Effect of ZnO incorporation on Cu-Ni/Al<sub>2</sub>O<sub>3</sub> catalyst for glycerol hydrogenolysis in the absence of added hydrogen[J]. Applied Petrochemical Research, 2015, 5(3): 221-229.
7. T. Jiang, D. Kong, K. Xu, F. Cao\*. Hydrogenolysis of glycerol aqueous solution to glycols over Ni-Co bimetallic catalyst: Effect of ceria promoting[J]. Applied Petrochemical Research. 2015, 6 (2):1-10.
8. Jiang T., Huai Q., Geng T., Ying W. Y., Xiao T. C., Cao F. H\*. Catalytic performance of Pd-Ni bimetallic catalyst for glycerol hydrogenolysis[J]. Biomass & Bioenergy, 2015, 78: 71-79.
9. Jiang J., Yang C., Lu Z. J., Ding J., Li T\*, Lu Y., Cao F. H. Characterization and application of a Pt/ZSM-5/SSMF catalyst for hydrocracking of paraffin wax[J]. Catalysis Communications, 2015, 60: 1-4.
10. Z. J. Lu, J. Jiang, M. N. Ren, J. S. Xu, J. W. Da, F. H. Cao\*. The Study on Removing the Salts in Crude Oil via Ethylene Glycol Extraction[J]. Energy & Fuels, 2015, 29(1): 355-360.