



Department: School of Resources and Environmental Engineering

Professional field: Chemical Engineering,

Energy and Power Engineering

E-mail: wangyf@ecust.edu.cn

Profile

Professor, Doctoral supervisor

1) Education

PhD, Inorganic Chemical Technology, ECUST, China, 1997.

BS, Inorganic Chemical Technology, ECUST, China, 1992.

2) Academic Experience

School of Resources and Environmental Engineering, ECUST, China, Professor, 2006-present, full time.

School of Resources and Environmental Engineering, ECUST, China, A. Prof., 2000-2006, full time.

School of Chemical Engineering, ECUST, China, Lecturer, 1997-2000, full time.

Research Field

Coal Gasification, Multi-phase Fluid Flow, Heat and Mass Transfer, Gasification Reaction Kinetics

Research results and selected published papers

2016: National Science and Technology Progress Awards Second Prize.

2016: Shanghai Science and Technology Progress Awards First Prize.

2016: Shandong Science and Technology Progress Awards First Prize.

2017: China Petroleum and Chemical Industry Federation (CPCIF) Science and Technology Progress Awards First Prize.

2017: Shanghai Science and Technology Progress Awards Second Prize.

- (1). Local flow regime and bubble size distribution in the slender particle-containing scrubbing-cooling chamber of an entrained-flow gasifier. Peng Xin, Wang Yi Fei*, Wei Zong Yao, Yu Guangsuo, Wang Fuchen. Chem. Eng. Sci. 2018, 190: 126-139
- (2). Gas distribution characteristics for heterogeneous flows in the slender particle-containing scrubbing-cooling chamber of an entrained-flow gasifier. Peng X., Wang Yifei.*, Wei Zongyao., Yu Guangsuo. Chem. Eng. Res. Des. 2018, 136: 358-370
- (3). Research of vertical falling film behavior in scrubbing-cooling tube, Liucheng Yan, Yifei Wang*, Ziwei Wu, Zhenghua Dai, Guangsuo Yu, Fuchen Wang, Chemical Engineering Research and Design, 2017, 117:627-636
- (4). Study on droplet entrainment in the composite scrubbing-cooling chamber, Yifei Wang*, Liucheng Yan, Qinghua Guo, Fuchen Wang, Guangsuo Yu, Asia-Pac. J. Chem. Eng, 2017, 12:415-421.
- (5). Experimental study of two phase flow characteristics on the dual-flow tray. Jiajia Zhang, Yifei Wang, Guangsuo Yu, Xiajun Mao, Fuchen Wang. Chemical Engineering research and design, 2015, 102: 90-99.
- (6). Research on Atomized Droplet Size in Composite Quench Chamber. Yifei Wang*, Qiangqiang Guo, Liucheng Yan, Hui Zhao, Guangsuo Yu, Fuchen Wang. The Canadian Journal of Chemical Engineering. 2015, 93 (12): 2150-2156
- (7). Simulation Research on the Fixed-bed Gasification Process in a Two-stage Combined Gasifier. Yifei Wang*, Weilong Jin, Longchu Zhu, Guangsuo Yu, Zhenghua Dai, and Fuchen Wang. Ind. Eng. Chem. Res., 2014, 53(18): 7611-7621.
- (8). Numerical Simulation and Assessment of a Two-Stage Gasifier Modified from an Opposed Multi-Burner Gasifier. Weilong Jin, Yifei Wang*, Longchu Zhu, Chaoqi Wu, and Jianliang Xu. Chemical engineering & technology, 2014, 37(3): 483-494.