



Department: School of Chemical Engineering

Professional field: Chemical Engineering and Technology

E-mail: hbjiang@ecust.edu.cn

Profile

In July 1992, he obtained the bachelor's degree in petroleum processing from East China University of chemical technology; in March 1995, he obtained the master's degree in organic chemical engineering from East China University of science and technology; in July 1999, he obtained the doctor's degree in chemical technology from East China University of science and technology. 1995-1997, assistant professor of East China University of science and technology; 1997-2001, lecturer of East China University of science and technology; November 2001, associate professor of East China University of science and technology; 2002, master supervisor of East China University of science and technology. From July 2006 to July 2007, he worked as a one-year national public visiting scholar in the Department of chemical engineering and student engineering of the University of British Columbia, Canada (supported by the young backbone teacher project of NSFC), mainly engaged in the research of steam reforming reaction kinetics model and simulation calculation of MTO process (methanol to olefin) in fluidized bed reactor.

Since 1992, he has been mainly engaged in the research of complex reaction system dynamics model of petroleum processing process, especially accumulated rich research experience in the aspects of catalytic cracking lumped reaction dynamics model, catalytic reforming lumped reaction dynamics model and coke generation dynamics model, delayed coking molecular reaction dynamics model, catalytic reforming single event reaction dynamics model, etc. Some achievements have been made in process simulation and optimization.

Research Field

Study on kinetic model of complex reaction system, simulation and optimization of petroleum processing and coal chemical process, development of Pao polymerization process

Research results and selected published papers

1. Hongbo Jiang*, Yilong Zhou, Liqun Zhou, Yu Wang, Jing Cao. Dehydrogenation Kinetic Model of Heavy Paraffins, AIChE Journal, 2017, 63(11): 4962-4970
2. Xiangen Shan, Geping Shu, Kejian Li, Xuwen Zhang, Hongxue Wang, Xueping Cao, Hongbo Jiang*, Huixin Weng, Effect of hydrogenation of liquefied heavy oil on direct coal liquefaction, Fuel, 2017, 194: 291-296
3. Hongbo Jiang*, Shuai Huang, Eight-Lump Reaction Kinetic Model for the Maximizing Isoparaffin Process for Cleaning Gasoline and Enhancing Propylene Yield, Energy & Fuels, 2016, 30(12): 10770-10776
4. Hongbo Jiang*, Xiuhui Wang, Xiangen Shan, Kejian Li, Xuwen Zhang, Xueping Cao, Huixin Weng. Isothermal stage kinetics of direct coal liquefaction for Shenhua Shendong bituminous coal, Energy & Fuels, 2015, 29(11): 7526-7531
5. Xiangen Shan, Kejian Li, Xuwen Zhang, Hongbo Jiang*, and Huixin Weng. Reaction Kinetics Study on the Heating Stage of the Shenhua Direct Coal Liquefaction Process, Energy & Fuels, 2015, 29(4): 2244-2249
6. Huibin Yang, Yachun Wang, Hongbo Jiang*, Huixin Weng, Feng Liu, and Mingfeng Li. Kinetics of Phenanthrene Hydrogenation System over CoMo/Al₂O₃ Catalyst, Ind. Eng. Chem. Res. 2014, 53 (31), 12264-12269