

师资队伍

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景山

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职务: 博士生导师

教育背景

学士 199107 清华大学化学工程系 高分子材料与工程
硕士 199407 中科院山西煤化所 化学工程
博士 199712 中科院过程工程所 化学工程

工作经历

199801 - 199912 清华大学化学工程系 博士后
200004 - 201112 清华大学核能与新能源技术研究院 副研究员
201112 - 201612 清华大学核能与新能源技术研究院 研究员
201701 - 至今 清华大学核能与新能源技术研究院 教授

研究领域

主要从事核化工反应器研究工作，分为（1）以液液聚并破碎为主的液液两相流机理方面，主要关于液液萃取过程的折流板脉冲萃取柱及泵轮式混合澄清槽中多液滴群方面的基础性研究工作；和（2）用于核燃料后处理过程中脉冲萃取柱、混合澄清槽、流化床、远距离测控技术和放射性废液输送的工程技术研发两个领域。

研究概况

201101 –201712 中试规模环形折流板脉冲萃取柱性能研究 国家科技重大专项
201801 –201906 中试规模环形折流板除油柱性能研究 国家科技重大专项
202001 –202312 大型脉冲萃取柱研制 国家科技重大专项

奖励与荣誉

2017 国防科学技术进步奖 二等奖 专用项目
2009 国防科学技术进步奖 二等奖 用于高放废液全分离流程除铯工段的液固循环流化床离子交换技术
2008 国防科学技术进步奖 二等奖 核用脉冲萃取柱系统远距离在线测控技术的原理和应用
2008 高等学校科学技术进步奖 二等奖 高放废液分离技术设备流程台架试验研究
2004 中国石化协会科技进步奖 二等奖 移动床径向反应器流体力学及工程应用研究

学术成果

Yu, X (Yu, Xiong); Li, SJ (Li, Shaojie); Zhou, H (Zhou, Han); Jing, S (Jing, Shan); Lan, WJ (Lan, Wenjie); Li, SW (Li, Shaowei). Numerically simulating droplet breakup in droplet swarm using modified level set method with multi-levels .CHEMICAL ENGINEERING SCIENCE, 2020, 211: 115263.

Zhou, H (Zhou, Han); Yang, JJ (Yang, Jinjie); Jing, S (Jing, Shan); Lan, WJ (Lan, Wenjie); Zheng, Q (Zheng, Qiang); Li, SW (Li, Shaowei). Influence of Dispersed-Phase Viscosity on Droplet Breakup in a Continuous Pump-Mixer .INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2019, 58: 23458-23467.

Yu, X (Yu, Xiong); Zhou, H (Zhou, Han); Jing, S (Jing, Shan); Lan, WJ (Lan, Wenjie); Li, SW (Li, Shaowei). CFD-PBM simulation of two-phase flow in a pulsed disc and doughnut column with directly measured breakup kernel functions .CHEMICAL ENGINEERING SCIENCE, 2019, 201: 349-361.

Xie, TL (Xie, Tingliang); Jing, S (Jing, Shan); Xu, C (Xu, Cong),. Design Guideline for Passive Microextractors: From Cocurrent Flow to Countercurrent Flow .INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2019, 58: 8750-8762.

Zhou, H (Zhou, Hao); Jing, S (Jing, Shan); Yu, X (Yu, Xiong); Zhou, H (Zhou, Han); Lan, WJ (Lan, Wenjie); Li, SW (Li, Shaowei). Study of droplet breakage in a pulsed disc and doughnut column- Part I: Experiments and correlations, .CHEMICAL ENGINEERING SCIENCE, 2019, 197: 172-183.

Zhou, H (Zhou, Han); Yu, X (Yu, Xiong); Jing, S (Jing, Shan); Zhou, H (Zhou, Hao); Lan, WJ (Lan, Wenjie); Li, SW (Li, Shaowei). Measurement of droplet breakage in a pump-mixer .CHEMICAL ENGINEERING SCIENCE, 2019, 195: 23-38.

Lan, WJ (Lan, Wenjie); Du, YJ (Du, Yinjie); Guo, XQ (Guo, Xuqiang); Liu, AX (Liu, Aixian); Jing, S (Jing, Shan); Li, SW (Li, Shaowei). Flexible Microfluidic Fabrication of Anisotropic Polymer Microfibers .INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2018, 57: 212-219.

Yu, X (Yu, Xiong); Zhou, H (Zhou, Han); Jing, S (Jing, Shan); Lan, WJ (Lan, Wenjie); Li, SW (Li, Shaowei). 3D-CFD Simulation of Liquid-Liquid Two-Phase Flow in A Pilot-Plant Scale Annular Pulsed Disc and Doughnut Column .SOLVENT EXTRACTION AND ION EXCHANGE, 2018, 36: 480-498.

Xie, TL (Xie, Tingliang); Jing, S (Jing, Shan); Xu, C (Xu, Cong). Cocurrent and countercurrent extraction based on a novel three-dimensional vortex microextractor .CHEMICAL ENGINEERING RESEARCH & DESIGN, 2017, 128: 37-48.

Zhou, H (Zhou, Hao); Jing, S (Jing, Shan); Fang, Q (Fang, Qi); Li, SW (Li, Shaowei); Lan, WJ (Lan, Wenjie). Direct Measurement of Droplet Breakage in a Pulsed Disc and Doughnut Column .AICHE JOURNAL, 2017, 63: 4188-4200.

Lan, WJ (Lan, Wenjie); Jing, S (Jing, Shan); Guo, XQ (Guo, Xuqiang); Li, SW (Li, Shaowei). Study on "interface - shrinkage - driven" breakup of droplets in co-flowing microfluidic devices .CHEMICAL ENGINEERING SCIENCE, 2017, 158: 58-63.

Liu, JQ (Liu, Jian-quan); Li, SW (Li, Shao-wei); Wang, YY (Wang, Yue-yun); Jing, S (Jing, Shan). Extraction of Uranium Nitrate with 30% (v/v) Tributyl Phosphate in Kerosene in an Pilot Annular Pulsed Disc-and-Doughnut Column Part I: Hydraulic Performance .SOLVENT EXTRACTION AND ION EXCHANGE, 2017, 35: 19-34.

Liu, JQ (Liu, Jian-Quan); Li, SW (Li, Shao-Wei); Wang, YY (Wang, Yue-Yun); Zhang, Q (Zhang, Qi); Jing, S (Jing, Shan). Extraction of Uranium Nitrate with 30% (v/v) Tributyl Phosphate in Kerosene in a Pilot Annular Pulsed Disc-and-Doughnut Column-Part II: Axial Mixing and Mass Transfer Performance .SOLVENT EXTRACTION AND ION EXCHANGE, 2017, 35: 187-198.

Xu, C (Xu, Cong); Jing, S (Jing, Shan); Chu, YF (Chu, Yifeng). Countercurrent Droplet-Flow-Based Mini Extraction with Pulsed Feeding and Without Moving Parts, AICHE JOURNAL, 2016, 62: 3685-3698.

Lan, WJ (Lan, Wenjie); Jing, S (Jing, Shan); Li, SW (Li, Shaowei); Luo, GS (Luo, Guangsheng). Hydrodynamics and Mass Transfer in a Countercurrent Multistage Microextraction System .INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2016, 55: 6006-6017.

Liu, HQ (Liu, Hongquan); Jing, S (Jing, Shan); Fang, Q (Fang, Qi); Li, SW (Li, Shaowei). Droplet Breakup in a Square-Sectioned Pulsed Disc and Doughnut Column .INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2016, 55: 2242-2251.

Wang, JC (Wang, Jianchen); Jing, S (Jing, Shan); Chen, J (Chen, Jing). Demonstration of a crown ether process for partitioning strontium from high level liquid waste (HLLW) .RADIOCHIMICA ACTA, 2016, 104: 107-115.

Liu, JQ (Liu, Jian-Quan); Li, SW (Li, Shao-Wei); Jing, S (Jing, Shan). Scale-Up Study on the Performance of Annular Pulsed Disc-and-Doughnut Columns .SOLVENT EXTRACTION AND ION EXCHANGE, 2016, 34: 485-501.

