



所属学院 资源与环境工程学院

学科领域 热能工程

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个人简介

学习和工作经历:

2019 – 至今, 华东理工大学, 资源与环境工程学院, 能源化工系, 副教授

2017 – 2018, Monash University, Department of Mechanical and Aerospace Engineering, 访问学者

2014 – 2019, 华东理工大学, 资源与环境工程学院, 能源化工系, 讲师

2012 – 2014, 华东理工大学, 资源与环境工程学院, 环境科学与工程博士后流动站, 博士后

2007 – 2012, 华东理工大学, 资源与环境工程学院, 博士

2003 – 2007, 华东理工大学, 化工学院, 学士

研究方向

煤气化与流体力学

研究成果及主要发表文章

1. Zhao H, Nguyen D, Duke D J, et al. Effect of turbulence on drop breakup in counter air flow. International Journal of Multiphase Flow, 2019, 120: 103-108.
2. Zhao H, Wu Z W, Li W F, et al. Interaction of two drops in the bag breakup regime by a continuous air jet. Fuel, 2019, 236: 843-850.
3. Zhao H, Wu Z W, Li W F, et al. Nonmonotonic Effects of Aerodynamic Force on Droplet Size of Prefilming Air-Blast Atomization. Industrial & Engineering Chemistry Research, 2018, 57(5): 1726-1732.
4. Zhao H, Wu Z W, Li W F, et al. Transition Weber number between surfactant-laden drop bag breakup and shear breakup of secondary atomization. Fuel, 2018, 221: 138-143.
5. Zhao H, Zhang W B, Xu J L, et al. Surfactant-laden drop jellyfish-breakup mode induced by the Marangoni effect. Experiments in Fluids, 2017, 58(3):13.
6. Hui Zhao, Wen-Bin Zhang, Jian-Liang Xu, Wei-Feng Li, Hai-Feng Liu, Influence of surfactant on the drop bag breakup in a continuous air jet stream, Physics of Fluids, 2016, 28, 54102
7. Hui Zhao, Jian-Liang Xu, Ju-Hui Wu, Wei-Feng Li, Hai-Feng Liu, Breakup morphology of annular liquid sheet with an inner round air stream, Chemical Engineering Science, 2015, 137, 412-422
8. Hui Zhao, Hai-Feng Liu, Jian-Liang Xu, Wei-Feng Li, Kuang-Fei Lin, Inhomogeneity in breakup of suspensions, Physics of Fluids, 2015, 27, 063303.
9. Hui Zhao, Haifeng Liu, Xiushan Tian, Jianliang Xu, Weifeng Li, Kuangfei Lin, Influence of atomizer exit area ratio on the breakup morphology of coaxial air and round water jets, AIChE Journal, 2014, 60, 2335-2345
10. Hui Zhao, Yan-Bing Hou, Hai-Feng Liu, Xiu-Shan Tian, Jian-Liang Xu, Wei-Feng Li, Yi Liu, Fu-Yu Wu, Jie Zhang, Kuang-Fei Lin, Influence of rheological properties on air-blast atomization of coal water slurry, Journal of Non-Newtonian Fluid Mechanics, 2014, 211, 1-15
11. Hui Zhao, Hai-Feng Liu, Xiu-Shan Tian, Jian-Liang Xu, Wei-Feng Li, Kuang-Fei Lin, Outer ligament-mediated spray formation of annular liquid sheet by an inner round air stream, Experiments in Fluids, 2014, 55, 1793
12. Hui Zhao, Haifeng Liu, Jianliang Xu, Weifeng Li, Kuangfei Lin, Temporal properties of secondary drop breakup in the bag-stamen breakup regime, Physics of Fluids, 2013, 25, 054102
13. Hui Zhao, Haifeng Liu, Jianliang Xu, Weifeng Li, Wei Cheng, Breakup and atomization of a round coal water slurry jet by an annular air jet, Chemical Engineering Science, 78, 63-74, 2012
14. Hui Zhao, Hai-Feng Liu, Xian-Kui Cao, Wei-Feng Li, Jian-Liang Xu, Breakup characteristics of liquid drops in bag regime by a continuous and uniform air jet flow, International Journal of Multiphase Flow, 37, 530-534, 2011
15. Hui Zhao, Hai-Feng Liu, Jian-Liang Xu, Wei-Feng Li, Experimental study of drop size distribution in the bag breakup regime, Industrial & Engineering Chemistry Research, 50, 9767-9773, 2011
16. Hui Zhao, Hai-Feng Liu, Jian-Liang Xu, Wei-Feng Li, Secondary breakup of coal water slurry drops, Physics of Fluids, 23, 113101, 2011
17. Hui Zhao, Hai-Feng Liu, Wei-Feng Li, Jian-Liang Xu, Morphological classification of low viscosity drop bag breakup in a continuous air jet stream, Physics of Fluids, 22, 114103, 2010