



所属学院 化工学院

学科领域 化学工程与技术

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个人简介

教育背景:

1999/9 - 2003/4, 华东理工大学, 化学工程, 博士, 导师: 袁渭康

1996/9 - 1999/7, 华东理工大学, 化学工程, 硕士, 导师: 谢声礼

1990/9 - 1993/7, 江南大学, 化学工程, 大专,

工作经历:

2008/1- 至今, 华东理工大学, 化工学院, 副研究员

2007/1-2008/1, Technion-Israel Institute of Technology, chemical engineering,

访问学者

2005/4-2007/1, 华东理工大学, 化工学院, 副研究员

2003/4-2005/4, 华东理工大学, 化工学院, 讲师

1993/9-1996/7, 无锡橡胶厂, 技术员

研究方向

超临界流体技术

重质油加工处理

计算化学

研究成果及主要发表文章

1. Shuang-Mei Xin, Qing-Kun Liu, Kai Wang, Yi Chen, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Solvation of Asphaltenes in Supercritical Water: A Molecular Dynamics Study, Chemical Engineering Science, 146, 2016, 115-125.
2. Qing-Kun Liu, Dao-Qi Zhu, Xue-Cai Tan, Jing-Yi Yang, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Lumped reaction kinetic models for pyrolysis of heavy oil in the presence of supercritical water, AIChE J, 62, 2016, 207-216.
3. Dao-Qi Zhu, Qing-Kun Liu, Xue-Cai Tan, Jing-Yi Yang, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Structural Characteristics of Asphaltenes Derived from Condensation of Maltenes in Supercritical Water, Energy & Fuels, 29, 2015, 7807-7815.
4. Xue-Cai Tan, Qing-Kun Liu, Dao-Qi Zhu, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Pyrolysis of heavy oil in the presence of supercritical water: The reaction kinetics in different phases, AIChE J, 61, 2015, 857-866.
5. Xue-Cai Tan, Chun-Chun Zhu, Qing-Kun Liu, Tian-Yi Ma, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Co-pyrolysis of heavy oil and low density polyethylene in the presence of supercritical water: The suppression of coke formation, Fuel Processing Technology, 118, 2014, 49-54.
6. Chun-Chun Zhu, Chong Ren, Xue-Cai Tan, Gong Chen, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Initiated pyrolysis of heavy oil in the presence of near-critical water, Fuel Processing Technology, 111, 2013, 111-117.
7. Ying Liu, Fan Bai, Chun-Chun Zhu, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Upgrading of residual oil in sub- and supercritical water: An experimental study, Fuel Processing Technology, 106, 2013, 281-288.
8. Fan Bai, Chun-Chun Zhu, Yin Liu, Pei-Qing Yuan*, Zhen-Min Cheng, Wei-Kang Yuan, Co-pyrolysis of residual oil and polyethylene in sub- and supercritical water, Fuel Processing Technology, 106, 2013, 267-274.
9. Pei-Qing Yuan, Chun-Chun Zhu, Ying Liu, Fan Bai, Zhen-Min Cheng, Wei-Kang Yuan, Solvation of hydrocarbon radicals in sub-CW and SCW: An ab initio MD study, The Journal of Supercritical Fluids, 58 (2011) 93-98.
10. Pei-Qing Yuan, Ying Liu, Fan Bai, Liang Xu, Zhen-Min Cheng, Wei-Kang Yuan, Hydration of cyclohexene in sub-critical water over W₀x-ZrO₂ catalysts, Catalysis Communications, 12 (2011) 753-756.