张琪

所属学院 化工学院

学科领域 化学工程与技术

邮箱 zhangqi@ecust.edu.cn

个人简介

教育背景

1.2004/4－2007/3, 日本东京农工大学，应用化学，博士，导师：Hideo Kameyama

2.2001/9－2004/3, 华东理工大学，化学工艺，硕士．导师：朱子彬

3.1997/9－2001/8, 华东理工大学，化学工程与工艺，学士，

工作背景

2018/9- 至今　华东理工大学，化工学院，教授

2008/9-2018/8 华东理工大学，化工学院，副研究员

2007/4-2008/5 日本东京农工大学 alumite 研究所，特任助手

研究方向

研究领域包括：

燃料电池重整系统及微型重整器设计

新型功能催化材料的制备及其在空气净化及泥土修复、污水处理的应用

环境治理过程中的吸附行为及泥土中重金属迁移行为研究

研究成果及主要发表文章

1. Zhang Q*, Peng Dong, Zhang Sai, Ye Qian, Wu Yongqiang, Ni Yanhui. Absorption Behaviors and Kinetic Models Analysis of Li4SiO4 under Various CO2 Partial Pressures. AIChE Journal, 2017, 63（6）, 2153-2164,.

2. Zhang Q*, Daying Han, Yang Liu, Qian Ye, Zibin Zhu. Analysis of CO2 sorption/desorption kinetic behaviors and reaction mechanisms on Li4SiO4. AIChE Journal, 59(2013): 901-911.

3. Zhang Q*, Zhu X, Kameyama H. Numerical investigations on the development of compact plate Reformers: comparison of different assignments of reformers' chambers. AIChE J., 54(2008): 2707-2716.（第一／通讯）

4. Feiyue Fan, Zhang, Q, Hou, Hong. A Structured Cu-Based/gamma-Al2O3/Al Multifunctional Catalyst for Steam Reforming of Dimethyl Ether: Investigation on in-Situ CO Reduction Strategy. Industrial & Engineering Chemistry Research. 2018, 57(6), 2426-2433

5. Zhang, Sai; Chowdhury, Muhammad; Zhang Q*; de Lasa, Hugo. A Novel Fluidizable K-Doped HAc-Li4SiO4 Sorbent for CO2 Capture: Preparation and Characterization. Industrial & Engineering Chemistry Research. 2016, 55 (49), 12524－12531.

6. Sai Zhang, Zhang Q*, Chen Shen, Yanhui Ni, Yongqiang Wu and Zibin Zhu. Self-Activation Mechanism Investigations on Large K2CO3-Doped Li4SiO4 Sorbent Particles. Industrial & Engineering Chemistry Research. 54(2015): 7292－7300.

7. Feiyue Fan, Zhang Q*, Xing Wang, Yanhui Ni, Yongqiang Wu, Zibin Zhu. A structured Cu-based/c-Al2O3/Al plate-type catalyst for steam reforming of dimethyl ether: Self-activation behavior investigation and stability improvement.Fuel, 186 (2016) 11－19.

8. Qi Zhang, Tianyu Wang, Wenzhao Fu, Shaofeng Xuan, Facet-Dependent Performance of Hydroxylated Anodic Boehmite for Catalyzing Gaseous Formaldehyde Oxidation, catalysis letter, 2018, 148: 1904-1913

9. Zhang Q*, Chen Shen, Yongqiang Wu. Steam Methane Reforming Reaction Enhanced by a Novel K2CO3-Doped Li4SiO4 Sorbent: Investigations on the Sorbent and Catalyst Coupling Behaviors and Sorbent Regeneration Strategy. International Journal of Hydrogen Energy, 941(2016): 4831-4842.

10. Zhang Q*, Hongjuan Luan, Tao Li, Yongqiang Wu, Yanhui Ni. Study on Pt-structured anodic alumina catalysts for catalytic combustion of boluene: Effects of competitive adsorbents and competitive impregnation methods. Applied Surface Science, 360(2016):1066-1074.