



师资队伍



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最高学历:

上海交通大学应用化学专业博士

研究领域:

化石资源(煤、石油、天然气)的高效催化转化

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教育工作经历:

2016.08-至今 福州大学石油化工学院, 闽江学者特聘教授

2013.10-2017.08 沙特阿卜杜拉国王科技大学 (King Abdullah University of Science and Technology) 研究科学家

2010.10-2013.09 沙特阿卜杜拉国王科技大学 (King Abdullah University of Science and Technology) 博士后

2009.10-2010.09 法国CPE-LYON (École Supérieure de Chimie Physique Électronique de Lyon; Université Claude Bernard Lyon 1) 博士后

2006.09-2009.07 上海交通大学 博士 工业催化

2003.09-2006.07 湖北大学 硕士 有机化学

1999.09-2003.07 湖北大学 本科 化学工程与工艺

教学简介: 质量与能量平衡、化工障碍性实验

科研项目:

研究兴趣主要涉及: (1) 低碳烷烃中C-H键的选择性活化和定向转化; (2) 多级孔沸石分子筛的合成及催化应用; (3) 烃类分子的加氢转化; (4) 表面化学途径制备高分散催化剂。

目前在研主持的科研项目:

国家自然科学基金青年项目“基于表面化学原理控制合成丙烷脱氢Pt-Sn合金催化剂”21606048;

福建省“闽江学者”启动经费, 低碳烷烃脱氢催化剂, 300万元

近年来已完成的主要科研项目: 海外工作期间申请并承担了来自DOW、SABIC和Crystal Global 等公司的系列项目, 经费总额超过200万美元。

代表性论文:

1. Haibo Zhu, Devon C. Rosenfeld, Moussab Harb, Dalaver H. Anjum, Mohamed Nejib Hedhili, Samy Ould Chikh, Jean-Marie Basset, Ni-Sn-O, Ni-Ti-O, and Ni-W-O catalysts, prepared from dry mixing method for oxidative dehydrogenation of ethane, ACS Catalysis 6 (2016) 2852-2866.

2. Haibo Zhu, Devon C. Rosenfeld, Dalaver H. Anjum, Shankar S. Sangaru, Youssef Saih, Samy Ould-Chikh, Jean-Marie Basset, Ni-Ta oxide catalyst for the low temperature oxidative dehydrogenation of ethane to ethylene, Journal of Catalysis, 2015, 329: 291-306.

3. Haibo Zhu, Dalaver H. Anjum, Qingxiao Wang, EdyAbou-Hamad, Lyndon Emsley, Hailin Dong, Paco Laveille, Lidong Li, Akshaya K. Samal, Jean-Marie Basset, Surface enriched Pt-Sn bimetallic nanoparticles as a selective and stable catalyst for propane dehydrogenation, Journal of Catalysis, 2014, 320: 52-62.

4. Haibo Zhu, Samy Ould-Chikh, Dalaver H. Anjum, Miao Sun, Gregory Biousque, Jean-Marie Basset, Valérie Caps, Nb effect in the nickel oxide-catalyzed low temperature oxidative dehydrogenation of ethane, Journal of Catalysis, 2012, 285: 292-303.

5. Haibo Zhu, Devon C. Rosenfeld, Dalaver H. Anjum, Jean-Marie Basset, Valérie Caps, Green synthesis of highly efficient Ni-Nb oxide catalysts for low temperature oxidative dehydrogenation of ethane, ChemSusChem, 2015, 8: 1254-1263.

6. Haibo Zhu, Samy Ould-Chikh, Hailin Dong, Isabelle Llorens, Youssef Saih, Dalaver H. Anjum, Jean-Louis Hazemann, Jean-Marie Basset, VOx/SiO₂ Catalyst prepared by grafting VOCl₃ on silica for oxidative dehydrogenation of propane, ChemCatChem, 2015, 7: 3332-3339.

7. Haibo Zhu, EdyAbou-Hamad, Yin Chen, Youssef Saih, Weibing Liu, Akshaya Kumar Samal, Jean-Marie Basset, Organosilane with gemini-type structure as a mesoporous support for synthesis of hierarchical porous ZSM-5 zeolite, Langmuir, 2016, 32: 2085-2092.

8. Haibo Zhu, Paco Laveille, Devon C. Rosenfeld, Mohamed Nejib Hedhili, Jean-Marie Basset, A high-throughput reactor system for optimization of Mo-V-Nb mixed oxide catalyst composition in ethaneODH, Catalysis Science & Technology, 2015, 5: 4164-4173.

9. Akshaya K. Samal, Haibo Zhu*, Moussab Harb, Shiv Shankar Sangaru, Dalaver H. Anjum, Mohamed N. Hedhili, Youssef Saih and Jean-Marie Basset, A general approach for the synthesis of bimetallic M-Sn (M = Ru, Rh and Ir) catalysts for efficient hydrogenolysis of ester, Catalysis Science and Technology 7 (2017) 581-586.

10. Shiv Shankar Sangaru, Haibo Zhu, Devon C. Rosenfeld, Akshaya Kumar Samal, Dalaver Anjum, Jean-Marie Basset, Surface composition of silver nanocubes and their influence on morphological stabilization and catalytic performance in ethylene epoxidation, ACS Applied Materials & Interfaces, 2015, 7: 28576-28584.

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