



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

[1] 教育背景

2002, 中国科学技术大学 化学系 博士

1999, 中国科学技术大学 化物系 硕士

1994, 安庆师范大学 化学系 学士

[2] 学术经历

2009— 华东理工大学 副教授

2007—2009 九州大学 日本 JSPS 研究员,

2004—2007 同济大学 副教授

2002—2004 清华大学 博士后

[3] 现任专业组织成员

中国化学会会员

上海市净水协会会员

[4] 荣誉和奖项

1999 中国科技大学双优生

研究方向

1. 封装金属纳米晶 MOF 协同催化碳氧化物转化
2. MOFs 组装与孔结构精准吸附分离 / 微电子化工
3. MOFs 膜控功能沸石 / 金属纳米晶多功能组份结构及 CO₂ 转化液态燃料

研究成果及主要发表文章

1. Haitao Xu,* Xikuo Luo, Jiajia Wang, Yuqun Su, Xi Zhao, Yansong Li “Spherical Sandwich Au@Pd@UIO-67/Pt@UIO-n (n = 66, 67, 69) Core–Shell Catalysts: Zr-Based Metal–Organic Frameworks for Effectively Regulating the Reverse Water–Gas Shift Reaction” ACS Applied Materials & Interfaces 2019, 11, 22, 20291-20297 IF=8.456
2. Yuqun Su, Haitao Xu,* Jiajia Wang, Xikuo Luo, Zhen-liang Xu, Kefu Wang, and Wenzhong Wang “Nanorattle Au@PtAg encapsulated in ZIF-8 for enhancing CO₂ photoreduction to CO” Nano Res 2019, 12(3), 625–630 IF=8.515
3. Quqing Han, Haitao Xu,* Yuqun Su, Zhen-liang Xu, Kefu Wang, Wenzhong Wang “Noble metal (Pt, Au@Pd) nanoparticles supported on metal organic framework (MOF-74) nanoshuttles as high-selectivity CO₂ conversion catalysts” J Catal 2019, 370, 70–78. IF=7.723
4. Xi Zhao, Haitao Xu,* Xiaoxiao Wang, Zhizhong Zheng, Zhenliang Xu, and Jianping Ge “Monodisperse Metal–Organic Framework Nanospheres with Encapsulated Core–Shell Nanoparticles Pt/Au@Pd@{Co₂(oba)₄(3-3 bpdh)₂}·4H₂O for the Highly Selective Conversion of CO₂ to CO” ACS Appl. Mater. Interfaces 2018, 10, 15096-15103. IF=8.456
5. Zhizhong Zheng, Haitao Xu,* Zhenliang Xu, and Jianping Ge “A Monodispersed Spherical Zr-Based Metal–Organic Framework Catalyst, Pt/Au@Pd@UIO-66, Comprising an Au@Pd Core–Shell Encapsulated in a UIO-66 Center and Its Highly Selective CO₂ Hydrogenation to Produce CO” Small 2018, 14, 1702812 DOI: 10.1002/smll.201702812 IF=10.856
6. Yu Han, Yuanyuan Li, Xiaoxiao Wang, Yansong Li, Haitao Xu*, Siyan Chen, Zhen-liang Xu “Influence of metal ions on the selective catalytic oxidation properties of isostructural MOFs” Inorg. Chim. Acta 471 (2018) 176–179. IF=2.26
7. Haitao Xu,* Yansong Li, Xikuo Luo, Zhenliang Xu and Jianping Ge * “Monodispersed gold nanoparticles supported on a zirconium-based porous metal–organic framework and their high catalytic ability for the reverse water–gas shift reaction” Chemical Communications, 2017, 53, 7953–7956. IF=6.32
8. Jiajia Wang, Yuqing Han, Haitao Xu,* Zhen-Liang Xu, Microporous assembly and shape control of a new Zn metal–organic framework: Morphology-dependent catalytic performance Applied Organometallic Chemistry. 2018; 32: e4097 IF= 3.58
9. Jiajia Wang, Xiaoxiao Wang, Haitao Xu,* Xi Zhao, Zhizhong Zheng, and Zhen-liang Xu “A Zinc (II) Porous Metal–Organic Framework and Its Morphologically Controlled Catalytic Properties in the Knoevenagel Condensation Reaction” ChemPlusChem 2017, 82, 1182 – 1187. IF=3.21
10. Yuanyuan Li, Yuqun Su, Jing Xu, Zhen-liang Xu, and Haitao Xu* Shape-Controlled Micro-Crystals of Chain-Like Zn(II) Coordination Polymer [Zn(NIA)EDA]_n and Its Catalytic Performance” Bulletin of The Chemical Society of Japan 2017, 90, 1152–1156. IF=3.53
11. Xiaoxiao Wang, Haitao Xu,* Yu Han, Yansong Li, Chen Sheng, Zhenliang Xu, Jieyu Xu, Mengyan Wang “Selective catalytic properties determined by the molecular skeleton: Two new isostructural coordination polymers[{M(H₂O)₅}₂(l-4-bpdh)(oba)]_n (M = Co, Ni)” Inorganica Chimica Acta, 2017, 461, 15–20. IF=2.26
12. Yu Han, Haitao Xu,* Xiaoxiao Wang, Yansong Li, Siyan Chen, Zhen-liang Xu “Selective catalytic properties of new microporous cobalt metal-organic frameworks controlled by their structural topologies” Materials letters 2016, 184, 73–77. IF=2.68
13. Haitao Xu*, Yongxia Gou, Jing Ye, Zhen-liang Xu, Zixuan Wang “Selectively catalytic activity of metal–organic frameworks depending on the N-position within the pyridine ring of their building blocks” Journal of Solid State Chemistry. 2016, 237, 323–329. IF=2.12
14. Jing Ye, Haitao Xu*, Jingsi Qiu, Zhen-Liang Xu “Layered Metal–Organic Framework [Zn₂(bpda)(chdc)₂] for Aqueous Encapsulation and Sensitization of Visible-emitting Rare-earth Cations” Materials letters 2016, 168, 203-206. IF=2.68
15. Jing Ye, Haitao Xu*, Xiaoqi Li, Zhen-Liang Xu “New Metal–Organic Frameworks constructed by 2,5-bis(3-pyridyl)-3,4-diaza-2,4-hexadiene and the dicarboxylic Ligands: Enhanced Photocatalytic Effect” Inorganic Chemistry Communications. 2016, 66, 36-40. IF=1.81
16. Jing Ye, Yongxia Gou, Zhen-Liang Xu, Haitao Xu* “Selectively Catalytic Micro- and Nanocrystals of Metal–Organic Framework [Co(4-bpdh)(HIA)]” Journal of Solid State Chemistry. 2015, 226, 142–146. IF=2.12
17. Jing Ye, Xiaoqi Li, Zhen-liang Xu, Haitao Xu* “Cobalt(II) Metal–Organic Framework Micro-Nanoparticles: Molecular Self-Assembly from Layers to Micropores Showing the Conjunctive Orientation of Carboxyl Groups”Journal of molecular structure 2015, 1093, 162–165. IF=2.01
18. Xu Haitao*, Xu Zhenliang, Osamu Sato*.“Water-Switching of Spin Crossover in a Gold Cluster Supramolecular System: From Metal–Organic Frameworks to Catenane”. Microporous and Mesoporous Materials. 2014.197.72–76. IF=3.65
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20. Xu Haitao, Xu Zhenliang. “A Microporous Coordination Polymer of 2,6-Naphthalenedicarboxylate and Cobalt(II) Showing Reversible Structural and Functional Transformation” Microporous and Mesoporous Materials. 2012, 157, 33–36. IF=3.65
21. Haitao Xu, Osamu Sato, Zhihua Li, and Jianping Ma “A thermally reversible photoinduced magnetic trinuclear complex [Cu₂(bpmen)₂][MoIV(CN)₈]·8H₂O” Inorganic Chemistry Communications. 2012, 15, 311–313. IF=1.81
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