|  |
| --- |
| 　 |
|  **Name：** | Youhe Wang |  |
| **Academic Title：** | Associate Professor |
| **Advisor Type：** | Doctoral Supervisor |
|  **Department：** | Department of Chemistry |
| **Research Interests：** | Inorganic Material Chemistry |
|  **E-Mail：** | yhewang@upc.edu.cn |
|  **Telephone：** | +86-532-86984559 |
|  |  |  |
| **◎Educational Background** |
| 2013.06 **Ph.D**. Chemical Engineering and Technology, **China University of Petroleum**2002.06  **M.E**. Mineral Process Engineering, **Chinese Academy of Geological Sciences**1999.06  **B.E**. Material Science and Engineering, **China University of Geosciences** |
|
|
|
|
|  |  |  |  |
| **◎Work Experience** |
| 2022.01-Present **Associate Professor**, College of Chemistry and Chemical Engineering, China University of Petroleum2016.04-2018.10 **Post-doctoral Researcher**, College of Chemical Engineering, Beijing University of Chemical Technology, China2011.12-2019.12 **Associate Professor**, College of Science, China University of Petroleum2010.02-2011.02 **Research Fellow**, Center for Energy, University of Western Australia2005.12 -2011.11 **Lecturer**, College of Chemistry and Chemical Engineering, China University of Petroleum2003.03 -2005.11 **Assistant Lecturer**, College of Chemistry and Chemical Engineering, China University of Petroleum |
|
|
|
|  |  |  |  |
| **◎Research Direction** |
| * Energy Catalytic Chemistry
* Porous Materials & Heterogeneous Catalysis
* Nanocatalysis and Nanomaterials
 |
|
|
|
|
|  |  |  |  |
| **◎Research Project** |
| * + **Fundamental Research Funds for the Central Universities,** **China** (Grant No. 22CX03001A), 2022-2024.
	+ **Natural Science Foundation of China** (Grant No.21776311), 2018-2021.
	+ **Shandong Provincial Natural Science Foundation, China** (Grant No. ZR2016BM28), 2016-2019.
	+ **Fundamental Research Funds for the Central Universities,** China (Grant No.15CX05030A), 2015-2017.
	+ **Fundamental Research Funds for the Central Universities,** **China** (Grant No.12CX04093A), 2011-2013.
	+ **Shandong Provincial Natural Science Foundation, China** (Grant No. ZR2011BQ014), 2011 -2014.
 |
|
|
|
|  |  |  |  |
| **◎Representative Papers and Patents** |
| [1] Risheng Wang, Zhihua Peng, Pingping Wu, Hongman Sun, Yu Zhang, Fazle Subhan, Hailiang Yin, **Youhe Wang\***, Zi-Feng Yan. Direct Synthesis of Nanorods Stacked “Nest-like” Hierarchical ZSM-48 Hollow Sphere by Triazine-based Bolaform Organic Structure-Directing Agent[J]. ***Inorganic Chemistry Frontiers***, 2022, 9, 2016-2022. https://doi.org/10.1039/D2QI00388K.[2] Yu Ma, Meng-Xuan Li, Ren-Ni Luan, Chao-Ran Li, Xin Liu, Hui-Ying Zhao, **You-He Wang**\*, Yong-Ming Chai, Bin Dong\*. Scalloped nickel/iron vanadium oxide-coated vanadium dioxides based on chemical etching-induced reconstruction strategy for efficient oxygen evolution[J]. ***International Journal of Hydrogen Energy***, 2022, 47(78):33352-33360. https://doi.org/10.1016/j.ijhydene.2022.07.217.[3] Yu Ma, Meng-Xuan Li, Hui-Ying Wang, **Youhe Wang**\*, Ning Yu,Yi-Wen Dong, Ren-Ni Luan, Yong-Ming Chai, Bin Dong\*. Modulation engineering of alkaline oxygen evolution reaction based on microwave activation of Ni, Fe bimetal doped MnO2[J]. ***Catalysis Communications***, 2022, 162: 106380. https://doi.org/10.1016/j.catcom.2021.106380.[4] Kang Li, Haibo Han, Jie Lei, **Youhe Wang**\*, Dekun Li, Mark J.Rood, Fazle Subhan,  Zifeng Yan\*. Upgradation of Heavy Crude Oil Via Hydrodynamic Cavitation Through Variations in Asphaltenes[J]. ***China Petroleum Processing and Petrochemical Technology***, 2022, 24(2):23-33.[5] Hongman Sun, Yu Zhang, Chunfen Wang, Mark A. Isaacs, Ahmed I. Osman, Yehong Wang, David Rooney, **Youhe Wang**, Zifeng Yan,Christopher M. A. Parlett\*, Feng Wang\*, Chunfei Wu\*. Integrated carbon capture and utilization: Synergistic catalysis between highly dispersed Ni clusters and ceria oxygen vacancies[J]. ***Chemical Engineering Journal***, 2022, 437:135394. https://doi.org/10.1016/j.cej.2022.135394.[6] Xinming Zhou, Li Su, Fang Si, Yajun Wang, Tianhao Zhan, **Youhe Wang**, Chaohe Yang, Hui Fu\*. Efficient Method to Catch Adsorption Behavior: Understanding the Effect of Sodium Ions on Benzene-Thiophene Adsorption in Na-FAU[J]. ***Advanced Theory and Simulations***, 2022, 5：2100368. https://doi.org/10.1002/adts.202100368.[7] Risheng Wang, Zhihua Peng, Pingping Wu, Jinzhi Lu, Mark J. Rood, Hongman Sun, Jingbin Zeng, **Youhe Wang**\* and Zifeng Yan. Direct synthesis of nanosheets stacked hierarchical “honey stick-like” MFI zeolite by aromatic heterocyclic dual-functional organic structure-directing agent[J]. ***Chemistry-A European Journal***, 2021, 27(34):8694-8697. https://doi.org/10.1002/chem.202100701.[8] **Youhe Wang**\*, Long Kou, Jinzhi Lu, Dezhi Han, Zhanquan Zhang, Hongman Sun, Chang Dai, Yuxin Mao, Zifeng Yan\*. One-step synthesis of egg-tray-like layered ordered macro-mesoporous SiO2-Al2O3 composites for enhanced hydrodesulfurization performance[J]. ***Microporous and Mesoporous Materials***, 2021, 322: 111131. https://doi.org/10.1016/j.micromeso.2021.111131.[9] **Youhe Wang**\*, Tingting Li, Chencan Li, Jinzhi Lu, Chang Dai, Fazle Subhan, Peng Bai, Hongman Sun, Rui Feng\*, Zifeng Yan. One-pot green synthesis of Fe-ZSM-5 zeolite containing framework heteroatoms via dry gel conversion for enhanced propylene selectivity of catalytic cracking catalyst[J]. ***Journal of Materials Science***, 2021, 56: 8050–18060. https://doi.org/10.1007/s10853-021-06472-2[10] **Youhe Wang**, Jingwei Xu, Zhihong Li, Shuai Guan, Yuyang Zeng, Guofeng Zhao, Hongman Sun, Fushan Wen, Fazle Subhan, Zifeng Yan\*. Direct synthesis of Zn-incorporated nano-ZSM-5 zeolite by a dry gel conversion method for improving catalytic performance of methanol to aromatics reaction[J]. ***Journal of Porous Materials***, 2021, 28: 1609–1618. https://doi.org/10.1007/s10934-021-01120-1.[11] **Youhe Wang**\*, Zhihong Li, Chang Dai, Ningning Du, Tingting Li, Risheng Wang, Peng Peng\*, **Hongman Sun**\*. Zn-P Co-Modified Hierarchical ZSM-5 Zeolites Directly Synthesized via Dry Gel Conversion for Enhanced Methanol to Aromatics Reaction[J]. ***Catalysts***. 2021, 11, 1388. https://doi.org/10.3390/catal11111388.[12] Haibo Han, Dezhi Han, Kang Li, Jie Lei, **Youhe Wang**\*, Peng Bai, Mark J. Rood, Zifeng Yan\*. Co-assembly Route to Facile Synthesis of Hierarchically Core-Shell Nano-CuMOR @SBA-15-like Composite for One-step DME Conversion to Ethanol with Enhanced Catalytic Stability[J]. ***Journal of Porous Materials***, 2020, 27: 855–862. <https://doi.org/10.1007/s10934-020-00862-8>.[13]U.J. Etim, Peng Bai\*, **Youhe Wang**, Fazle Subhan, Yuxiang Liu, Zifeng Yan\*. Mechanistic insights into structural and surface variations in Y-type zeolites upon interaction with binders[J]. ***Applied Catalysis A, General****,* 2019, 571 :137–149.[14] Wei Xing\*, Shuo Li,Dongfeng Du, DanDan Wang, YiFei Liao, Shihui Ge, Jing Xu, Peng Bai, Zhen Liu, **Youhe Wang**, Xiuli Gao\*, Mingbo Wu, Qingzhong Xue, Zifeng Yan. Revealing the impacting factors of cathodic carbon catalysts for Li-CO2 batteries in the pore-structure point of view[J]. ***Electrochimica Acta***, 2019, 311: 41-49.[15]**Youhe Wang**, Hongman Sun, Peng Peng, Peng Bai, Zifeng Yan \*, Fazle Subhan, Shengfu Ji \*. Synthesis of hierarchical ZSM-5 zeolites via two stage varying temperature crystallization with enhanced catalytic cracking performance[J]. ***Chinese Journal of Inorganic Chemistry***, 2018, 34(5): 989-996.[16]Peng Bai\*, Mengjie Xie, Ubong J. Etim, Wei Xing, Pingping Wu, Yanan Zhang, Bowen Liu, **Youhe Wang**, Ke Qiao, and Zifeng Yan\*. Zeolite Y Mother Liquor Modified γ-Al2O3 with Enhanced Brönsted Acidity as Active Matrix to Improve the Performance of Fluid Catalytic Cracking Catalyst[J]. ***Industrial & Engineering Chemistry Research***, 2018, 57 (5): 1389–1398.[17]Hongman Sun, Peng Peng, **Youhe Wang**\*, Chencan Li, Fazle Subhan, Peng Bai, Wei Xing, Zhongdong Zhang, Zhaoyong Liu, Zifeng Yan\*. Preparation, scale-up and application of meso-ZSM-5 zeolite by sequential desilication–dealumination[J]. ***Journal of Porous Materials***, 2017, 24:1513-1525. <https://doi.org/10.1007/s10934-017-0391-4>.[18]Benjing Xu, Yang Yang, Yanyan Xu, Baozhai Han, **Youhe Wang**, Xinmei Liu, Zifeng Yan \*. Synthesis and characterization of mesoporous Si-modified alumina with high thermal stability[J]. ***Microporous and Mesoporous Materials***, 2017, 238:84-89. [19]Jufeng Huang, Wei Xing \*, Fazle Subhan, Xiuli Gao, Peng Bai, Zhen Liu, **Youhe Wang**, Qingzhong Xue, Zifeng Yan.Functionalization of petroleum coke-based mesoporous carbon for synergistically enhanced capacitive performance[J]. ***Journal of Materials Research***, 2017, 32(7): 1248-1257. [20]Peng Peng,  **Youhe Wang\*,** Zhanquan Zhang, Ke Qiao, Xinmei Liu, Zifeng Yan \*, Fazle Subhan, Sridhar Komarneni. ZSM-5-based mesostructures by combined alkali dissolution and re-assembly: Process controlling and scale-up[J]. ***Chemical Engineering Journal***, 2016, 302:323-333. <https://doi.org/10.1016/j.cej.2016.05.027>. |
|
|
|
|  |  |  |  |
|  |
| **◎Courses Offered** |
| Inorganic and Analytical ChemistryAdvanced Inorganic Chemistry |
|
|
|
|  |  |  |  |
| **◎Student Training** |
| More than 27 master and 4 PhD graduates. |
|
|
|  |  |  |  |
| **◎Part-time Academic Job** |
| Member of Chinese Chemical Society |
|

（Updated: Oct. 2022）