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| **Name：** | Youhe Wang | |  | |
| **Academic Title：** | Associate Professor | |
| **Advisor Type：** | Doctoral Supervisor | |
| **Department：** | Department of Chemistry | |
| **Research Interests：** | Inorganic Material Chemistry | |
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| **Telephone：** | +86-532-86984559 | |
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| **◎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** | | | | |
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| **◎Work Experience** | | | | |
| 2022.01-Present **Associate Professor**, College of Chemistry and Chemical Engineering, China University of Petroleum  2016.04-2018.10 **Post-doctoral Researcher**, College of Chemical Engineering, Beijing University of Chemical Technology, China  2011.12-2019.12 **Associate Professor**, College of Science, China University of Petroleum  2010.02-2011.02 **Research Fellow**, Center for Energy, University of Western Australia  2005.12 -2011.11 **Lecturer**, College of Chemistry and Chemical Engineering, China University of Petroleum  2003.03 -2005.11 **Assistant Lecturer**, College of Chemistry and Chemical Engineering, China University of Petroleum | | | | |
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| **◎Research Direction** | | | | |
| * Energy Catalytic Chemistry * Porous Materials & Heterogeneous Catalysis * Nanocatalysis and Nanomaterials | | | | |
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| **◎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. | | | | |
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| **◎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\*. 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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>. | | | | |
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| **◎Courses Offered** | | | | |
| Inorganic and Analytical Chemistry  Advanced Inorganic Chemistry | | | | |
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