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职称/职务：讲师

专业：环境工程

研究方向：环境催化

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个人经历

教育经历：

2011.9-2015.6	学士	河南城建学院	市政与环境工程学院	环境工程
2015.9-2018.6	硕士	昆明理工大学	环境科学与工程学院	环境工程
2018.9-2021.12	博士	昆明理工大学	环境科学与工程学院	环境工程

工作简历：

2021.12-2024.11	昆明理工大学材料科学与工程学院	博士后
2024.12-至今	信阳师范大学化学化工学院	讲师

研究领域与兴趣

1. 移动源/固定源废气净化及资源化利用
2. 环境催化功能材料的研究与设计

主讲课程

本科生：《化工制图》

主持科研项目

无

代表性研究成果

期刊论文：

1. **Huimin Wang**, Xin Yu, Xuhui Xu, Ping Ning, Qiulin Zhang*. A controllable zeolite framework stability of Cu/SAPO-34 via adjusting the copper coordination environment for NH₃-SCR under hydrothermal condition. *Fuel*, **2024**, 371: 132018.
2. Wan Yang, Kaizhu Chang, Meng Yang, Xueshuang Yan, Shiju Yang, Yongjun Liu, Guowei Wang, Futing Xia*, **Huimin Wang***, Qiulin Zhang. Facilitating CO₂ methanation over oxygen

- vacancy-rich Ni/CeO₂: Insights into the synergistic effect between oxygen vacancy and metal-support interaction. *Chemical Engineering Journal*, **2024**, 499: 156493.
3. Pengyu Zhang, **Huimin Wang***, Xin Yu, Jianjun Chen, Qiulin Zhang*. Promotional effects of neodymium on low-temperature hydrothermal stability of deNO_x Cu/SAPO-34 catalysts: A comparative evaluation of the mechanism. *Applied Surface Science*, **2024**, 669: 160538.
 4. Kaizhu Chang, Wan Yang, Guojian Peng, Shiju Yang, Guowei Wang, Yongjun Liu, Xueshuang Yan, Futing Xia*, **Huimin Wang***, Qiulin Zhang. Revealing the boosting roles of sulfate groups on NO_x selective catalytic reduction over V₂O₅/CeO₂ catalyst. *Applied Surface Science*, **2024**, 672: 160872.
 5. **Huimin Wang**, Xuhui Xu, Liangtao Yin, Ping Ning, Jianjun Chen, Jinyan Cao, Qiulin Zhang, Haijiao Xie. SO₂-induced dual active sites formation over VO_x/Fe₂O₃ for accelerating NH₃ selective catalytic reduction of NO_x. *Chemical Engineering Journal*, **2023**, 462: 142326.
 6. **Huimin Wang**, Hao Li, Lianyun Gao, Xiaoyan Tian, Jiming Hao, Ping Ning, Jianjun Chen, Qiulin Zhang. Pr-functionalized Cu/SAPO-34 with superior hydrothermal stability for NH₃-SCR: the copper species and framework stabilization effect. *Fuel*, **2022**, 327: 125229.
 7. **Huimin Wang**, Xuhui Xu, Jiming Hao, Ping Ning, Qiulin Zhang. Unravelling the phosphorus-induced effect on NH₃-SCR catalytic performance, hydrothermal stability and SO₂ resistance of Cu/SAPO-34. *Applied Catalysis A, General*, **2022**, 646: 118888.
 8. **Huimin Wang**, Wei Li, Siyuan Xu, Mo Liu, Jiming Hao, Ping Ning*, Qiulin Zhang*, Insights into the impact of lanthanum on hydrothermal-induced migration and transformation of copper species in Cu/SAPO-34 catalyst for NH₃-SCR, *Molecular Catalysis*, **2021**, 515: 111914.
 9. **Huimin Wang**, Ping Ning*, Yaqing Zhang, Yanping Ma, Jifeng Wang, Lanying Wang, Qiulin Zhang*, Highly efficient WO₃-FeO_x catalysts synthesized using a novel solvent-free method for NH₃-SCR, *Journal of Hazardous Materials*, **2020**, 388: 121812.
 10. **Huimin Wang**, Qiulin Zhang*, Tengxiang Zhang, Jifeng Wang, Guangcheng Wei, Mo Liu, Ping Ning*, Structural tuning and NH₃-SCO performance optimization of CuO-Fe₂O₃ catalysts by impact of thermal treatment, *Applied Surface Science*, **2019**, 485: 81-91.
 11. **Huimin Wang**, Ping Ning, Qiulin Zhang*, Xin Liu, Tengxiang Zhang, Jie Fan, Jing Wang, Kaixian Long. Promotional mechanism of WO₃ over RuO₂-Fe₂O₃ catalyst for NH₃-SCO reaction, *Applied Catalysis A, General*, **2018**, 561: 158-167.

专利著作:

1. 国家发明专利 (ZL 2022 1 1427511.2): 张秋林, **王慧敏**, 宁平, 陈建军, 高连昀, 一种结构稳定的脱硝催化剂及其制备方法和应用、整体式催化剂及其应用, 2024.5.17
2. 国家发明专利 (ZL 2022 1 1428535.2): 张秋林, **王慧敏**, 宁平, 陈建军, 田笑言, 一种抗水热稳定性脱硝催化剂及其制备方法和应用、整体式催化剂及其应用, 2024.5.17
3. 国家发明专利 (ZL 2018 1 1432869.8): 张秋林, **王慧敏**, 宁平, 刘昕, 张腾祥, 一种废轮

胎裂解炭黑脱灰及 ZnO 回收的方法, 2021.2.26

奖励及荣誉

近年来已在 Chemical Engineering Journal, Journal of Hazardous Materials, Fuel, Applied Surface Science 等国际知名期刊杂志上发表学术论文 10 余篇, 授权国家发明专利 3 项。

个人主页

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