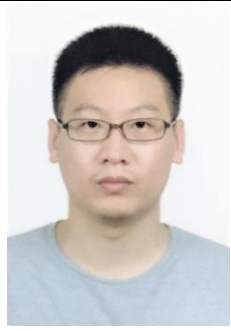


资源与环境工程学院教师信息表

姓名	王钰	性别	男	出生年月	1986.01	
毕业专业	物理化学	毕业学校	大连理工大学			
最高学历	博士研究生	最高学位	博士			
职称/职务	副教授	所属学科	环境科学与工程			
电话	13554665464	Email	yuwang@wust.edu.cn			
进修/留学情况	2020 年国家留学基金委出国留学访问学者项目（获批）					
学术/社会兼职	1. 湖北省环境科学学会大气环境专业委员会委员 2. 中国化学会会员、美国化学会会员 3. <i>ACS Catal.</i> , <i>Appl. Catal. B: Environ</i> 等学术期刊审稿人					
研究领域及研究方向	有机溶剂“吸附-脱附-回收”活性炭、分子筛、高分子聚合物吸附剂开发；工业有机废气催化燃烧耐氯耐硫中毒催化剂开发；温室气体催化转化高附加值化学品。					
承担科研工作	1. 国家自然科学基金青年科学基金项目，多级孔分子筛包覆亚纳米 Ru-Pt 双金属簇催化剂协同限域催化氧化 CVOCs 机理研究（21906125），2020/01-2022/12，主持 2. 湖北省自然科学基金青年项目，多级孔分子筛负载 Pt-Ag 双金属催化剂“吸附-催化氧化”循环分解 VOCs 的机理研究（2019CFB116），2019/06-2021/06，主持 3. 中国博士后科学基金面上项目，介微多级孔分子筛负载钨催化剂用于 CVOC 的催化氧化（2016M602303），2016/11-2018/11，主持 4. 催化材料制备及应用湖北省重点实验室开放基金项目，微孔固体酸 H-ZSM-5 封装 Ru-Ce 用于二氯甲烷催化燃烧，2021/11-2022/11，主持 5. 产学研项目，新型催化燃烧设备及催化剂合成，2021/01-2021/12，主持 6. 产学研项目，聚氯乙烯（PVC）工业有机废气催化燃烧技术开发，2022/01-2022/12，主持 7. 产学研项目，卤代烃高效吸附树脂开发及应用，2022/03-2024/03，主持 8. 湖北省技术创新专项，工业废气中挥发性有机物污染物（VOCs）治理关键技术与应用示范（2019ACA157），2019/06-2021/06，技术骨干 9. 湖北省重点研发计划项目，高含盐石化废水低碳资源化近零排放研究（2021BCD002），2021/11-2023/12，技术骨干					
代表性成果	1. Yu Wang , Kaisi Liu, Ji Wu, Zhimi Hu, Liang Huang, Jun Zhou*, Tatsumi Ishihara*, Limin Guo*, Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO ₂ for Formaldehyde Catalytic Oxidation, <i>ACS Catal.</i> , 2020, 10: 10021-10031. (中科院 1 区) 2. Yu Wang , Xiaobing Zhu, Mark Crocker, Bingbing Chen, Chuan Shi*, A comparative study of the catalytic oxidation of HCHO and CO over Mn _{0.75} Co _{2.25} O ₄ catalyst: The effect of moisture, <i>Appl. Catal. B: Environ.</i> , 2014, 160-161: 542-551. (中科院 1 区) 3. Yu Wang , Ji Wu, Gang Wang, Dengyao Yang, Tatsumi Ishihara, Limin Guo*, Oxygen Vacancy Engineering in Fe Doped Akhtenskite-Type MnO ₂ for Low-Temperature Toluene Oxidation, <i>Appl. Catal. B: Environ.</i> , 2021, 285, 119873. (中科院 1 区) 4. Yu Wang , Gang Wang, Wei Deng, Jun Han*, Linbo Qin, Bo Zhao, Limin Guo, Futang Xing*, Study on the structure-activity relationship of Fe-Mn oxide catalysts for					

- chlorobenzene catalytic combustion, *Chem. Eng. J.*, 2020, 395, 125172. (中科院 1 区)
5. **Yu Wang**, Dengyao Yang, Shaozhong Li, Lingxia Zhang, Guanyu Zheng and Limin Guo*, Layered copper manganese oxide for the efficient catalytic CO and VOCs oxidation. *Chem. Eng. J.*, 2019, 357: 258-268. (ESI 高被引论文, 中科院 1 区)
 6. 王小强,杨宁,徐力*,李相鹏,王钰*.铁锰基整体式催化剂催化燃烧甲苯和氯苯的性能. *中国环境科学* (2022) DOI:10.19674/j.cnki.issn1000-6923.20220208.019.
 7. Liurui Bao, Shanhui Zhu, Yi Chen, **Yu Wang***, Wenhao Meng, Shuai Xu, Zehui Lin, Xingyun Li*, Ming Sun, Limin Guo, Anionic defects engineering of Co₃O₄ catalyst for toluene oxidation, *Fuel*, 2022, 314, 122774.
 8. Yuan Qu, Li Xu*, Yi Chen, Shikuan Sun, **Yu Wang***, Limin Guo*, Efficient toluene adsorption/desorption on biochar derived from in situ acid-treated sugarcane bagasse, *Environ. Sci. Pollut. Res.*, 2021, 28: 62616-62627.
 9. **Yu Wang***, Yi Chen, Long Zhang, Gang Wang, Wei Deng, Limin Guo*, Total catalytic oxidation of chlorinated aromatics over bimetallic Pt-Ru supported on hierarchical HZSM-5 zeolite, *Micropor. Mesopor. Mat.*, 2020, 308, 110538.
 10. Gang Wang, **Yu Wang***, Linbo Qin, Bo Zhao, Limin Guo and Jun Han*, Efficient and stable degradation of chlorobenzene over porous iron-manganese oxides supported ruthenium catalyst, *Catal. Sci. Technol.*, 2020, 10: 7203-7216.
 11. **Yu Wang**, Wangsheng Chen, Bo Zhao, Huaqin Wang, Linbo Qin, Jun Han*, Preparation of high-performance toluene adsorbents by sugarcane bagasse carbonization combined with surface modification, *RSC Adv.*, 2020, 10: 23749-23758.
 12. Jun Han, Yan Liang, Linbo Qin*, Bo Zhao, Huaqin Wang, **Yu Wang***, Ni@HC Core-Shell Structured Catalysts for Dry Reforming of Methane and Carbon Dioxide, *Catal. Lett.*, 2019, 149: 3224-3237.
 13. Yan Liang, Jun Han*, Huaqin Wang, Bo Zhao, Linbo Qin, **Yu Wang***, Synthesis of Ni-Mg@HC catalyst derived from sugarcane bagasse and its application for producing syngas via CO₂ dry reforming, *Energ. Sources Part A*, 2019, 1-14.
 14. **Yu Wang**, Dengyao Yang, Shaozhong Li, Mengqiu Chen, Limin Guo*, Jian Zhou*, Ru/hierarchical HZSM-5 zeolite as efficient bi-functional adsorbent/catalyst for bulky aromatic VOCs elimination. *Micropor. Mesopor. Mat.*, 2018, 258: 17-25.
 15. **Yu Wang**, Limin Guo*, Mengqiu Chen, Chuan Shi*, The CoMn_xO_y nanosheets with molecular scale homogeneity: An excellent catalyst for toluene combustion. *Catal. Sci. Technol.*, 2018, 8: 459-471.
 16. **Yu Wang**, Lingxia Zhang, Limin Guo*, Enhanced Toluene Combustion over Highly Homogeneous Iron Manganese Oxide Nanocatalysts. *ACS Appl. Nano Mater.*, 2018, 1(3): 1066-1075.
 17. **Yu Wang**, Wei Deng, Yifu Wang, Limin Guo*, Tatsumi Ishihara, A comparative study of the catalytic oxidation of chlorobenzene and toluene over Ce-Mn oxides. *Mol. Catal.*, 2018, 459: 61-70.
 18. **Yu Wang**, Chengyi Dai, Bingbing Chen, Yidi Wang, Chuan Shi*, Xinwen Guo*, Nanoscale HZSM-5 supported PtAg bimetallic catalysts for simultaneous removal of formaldehyde and benzene, *Catal. Today*, 2015, 258: 616-626.
 19. **Yu Wang**, Bingbing Chen, Mark Crocker, Yujing Zhang, Xiaobing Zhu, Chuan Shi*,

	<p>Understanding on the origins of hydroxyapatite stabilized gold nanoparticles as high-efficiency catalysts for formaldehyde and benzene oxidation, <i>Catal. Commun.</i>, 2015, 59:195-200.</p> <p>20. Yu Wang, Siyu Yao, Mark Crocker, Xiaobing Zhu, Bingbing Chen, Jinglin Xie, Chuan Shi*, Ding Ma*, An energy-efficient catalytic process for the tandem removal of formaldehyde and benzene by metal/HZSM-5 catalysts. <i>Catal. Sci. Technol.</i>, 2015, 5(11): 4968-4972. (封面文章)</p> <p>21. Yu Wang, Aimin Zhu, Bingbing Chen, Mark Crocker, Chuan Shi*, Three-dimensional ordered mesoporous Co-Mn oxide: A highly active catalyst for “storage-oxidation” cycling for the removal of formaldehyde, <i>Catal. Commun.</i>, 2013, 36: 52-57. (C&E News report)</p> <p>22. 王钰, 郭利民, 一种有机污染土壤热解析尾气处理系统, 专利号: ZL201611050877.7 (已转让, 转让金额: 5.6 万元)</p> <p>23. 王钰, 空气净化器控制装置、空气净化器系统及空气净化器控制方法, 专利号: ZL201510730971.6</p> <p>24. 王钰, 钟小键, 清除烟雾烟味的装置及其应用, 专利号: ZL201510734128.5</p> <p>25. ZS. Gan, Y. Wang, Z. Liu, HY. Xie, FILTER AND PURIFIER HAVING SAME, PCT patent: WO2017147995</p> <p>26. 王钰, 空气净化装置、家用电器以及空气净化方法, 专利号: ZL201510283863.9</p> <p>27. 王钰 (1/1), 大连市自然科学优秀学术论文三等奖, 大连市科学技术协会, 2013 年 7 月,</p>
<p>其他</p>	<p>指导本科生获第十二届全国大学生节能减排社会实践与科技竞赛三等奖, 省级/校级大学生创新创业训练计划, 优秀毕业设计(论文)1 项; 指导研究生获硕士研究生国家奖学金 2 项, “湖北工匠杯”技能大赛一等奖, 优秀教练。</p>