


## 王慧亮简介

姓名	王慧亮	性别	男	出生年月	1982.4	
职称	副教授	民族	汉	籍贯	河南安阳	
电子邮箱	wanghuiliang@zzu.edu.cn		最终学位	博士		
学术头衔	中国大坝工程学会生态环境专委会委员 河南省水利学会水文专委会委员					
研究方向	水文与水资源模型与数值模拟、水生态修复					
主要学习、科研和工作经历	<p>2016/1-今, 郑州大学水利科学与工程学院, 讲师、副教授、博士生导师</p> <p>2014/1-2015/12 入郑州大学水利与环境学院博士后科研流动站</p> <p>2010/9-2014/1 在中国科学院生态环境研究中心读博士研究生, 获生态学博士学位</p> <p>2007/9-2010/6 在中国科学院测量与地球物理研究所读硕士研究生, 获自然地理学硕士学位</p> <p>2004/7-2007/8 在河南理工大学资源环境学院助教</p> <p>2000/9-2004/6 在河南理工大学读本科, 获环境工程学士学位</p>					
代表性教学成果与教学荣誉	<p>1、2019 年获得全国水利工程专业学位研究生教育先进个人;</p> <p>2、2018 年 7 月获第六届水利类专业青年教师讲课大赛二等奖;</p> <p>3、主要讲授水文与水资源工程专业《生态水文学》, 水利水电工程专业《生态与环境导论》等本科生课程和水利工程《生态修复与治理技术》等硕士生课程。教学效果良好, 网络评教分数都在 99.9 分以上。</p> <p>4、编写普通高等教育“十三五”规划教材《水文水利计算》(副主编);</p> <p>5、发表教育教改论文 4 篇; 主持校级教改项目 2 项, 参加省级教改项目 1 项。</p>					
代表性科研成果与科研奖励	<p><b>1、主持的科研项目</b></p> <p>(1) 国家自然科学基金面上项目, 典型城区干湿沉降重金属对地表径流的污染机理(51879242), 2019/01-2022/12</p> <p>(2) 国家自然科学基金重点项目子课题, 城市洪涝灾害形成过程数据链相互影响关系及响应机制, 2018/01-2022/12</p> <p>(3) 国家自然科学基金青年基金面上项目, 基于生态系统服务价值的非点源污染控制措施评价与优选方法研究(51509223), 2016/01-2018/12</p> <p>(4) 中国博士后科学基金面上资助项目, 非点源污染控制对生态系统服务功能影响机理研究(2015M572116), 2015/01-2015/12</p>					

## 2、近 5 年来发表的文章

- (1) Wu, Z, Zhou, Y, **Wang, H(通讯)**, Jiang Z. Depth prediction of urban flood under different rainfall return periods based on deep learning and data warehouse. *Science of The Total Environment*. 2020,716: 137077.
- (2) Wu, Z, Shen, Y, **Wang, H(通讯)**, Wu M. Urban Flood Disaster Risk Evaluation Based on Ontology and Bayesian Network. *Journal of Hydrology*. 2020, 583: 124596.
- (3) Wu, Z, Shen, Y, **Wang, H(通讯)**, Wu M. An ontology-based framework for heterogeneous data management and its application for urban flood disasters. *Earth Science Informatics*. 2020, online. <https://doi.org/10.1007/s12145-019-00439-3>.
- (4) Zhang, W, Zhang, L, Hua, T, Li, Y, Zhou, X, Wang, W, You, Z, **Wang H(通讯)**, Li, M. The mechanism for adsorption of Cr (VI) ions by PE microplastics in ternary system of natural water environment. *Environmental Pollution*, 2020,257:113440.
- (5) Di D, Wu Z, **Wang H(通讯)**, Lv C. A Double-Layer Dynamic Differential Game Model for the Optimal Trading Quantity of Water and Price Setting in Water Rights Transactions. *Water Resources Management*, 2020,34: 245-262.
- (6) Zhang, W, Tang, G, Yan, J, Zhao, L, Zhou, X, **Wang, H(通讯)**, Feng Y, Guo Y, Wu J, Chen W, Yuan N, Li, M. The decolorization of methyl orange by persulfate activated with natural vanadium-titanium magnetite. *Applied Surface Science*, 2020, 509C: 144886.
- (7) Wu Z, Shen Y, **Wang H(通讯)**. Assessing Urban Areas Vulnerability to Flood Disaster Based on Text Data: A Case Study in Zhengzhou City. *Sustainability*, 2019,11(17): 4548.
- (8) Wu Z, Shen Y, **Wang H(通讯)**, Wu M. Assessing urban flood disaster risk using Bayesian network model and GIS applications. *Geomatics, Natural Hazards and Risk*, 2019, 10(1): 2163-2184.
- (9) Wu Z, Shen Y, **Wang H(通讯)**, Wu M. Quantitative assessment of urban flood disaster vulnerability based on text data: case study in Zhengzhou. *Water Science and Technology: Water Supply*. 2019, online. <https://doi.org/10.2166/ws.2019.171>
- (10) Zhang Y, Guo J, Sun B, Fang H, Zhu D, **Wang H(通讯)**. Modeling and Dynamic-Simulating the Water Distribution of a Fixed Spray-Plate Sprinkler on a Lateral-Move Sprinkler Irrigation System. *Water*, 2019, 11(11): 2296.
- (11) **Wang H**, He P, Shen C, Wu Z. Effect of irrigation amount and

fertilization on agriculture non-point source pollution in the paddy field. *Environmental Science and Pollution Research*, 2019, 26(10): 10363-10373.

(12) Wu, Z, Di, D, **Wang, H(通讯)**, Wu, M, He, C. Analysis and emergy assessment of the eco-environmental benefits of rivers. *Ecological Indicators*, 2019, 106: 105472.

(13) Di, D, Wu, Z, Guo, X, Lv, C, **Wang, H(通讯)**. Value stream analysis and emergy evaluation of the water resource eco-economic system in the Yellow River Basin. *Water*, 2019,11(4): 710.

(14) Guan, X, Liu, W, **Wang, H(通讯)**. Study on the ecological compensation standard for river basin based on a coupling model of TPC-WRV. *Water Science and Technology: Water Supply*, 2018,18(4), 1196-1205.

(15) **Wang H**, Liu C, Wu Z, Yang W, Chen C. Improved dewaterability of sewage sludge by Fe (II)-activated persulfate oxidation combined with polymers. *Water and Environment Journal*, 2017, 31(4): 603-608.

(16) Wu Z, Guo X, Guan X, Lv C, **Wang H(通讯)**. Water efficiency evaluation of a regional water scheme—Zhengzhou, China, using a water ecological—economic system (WEES) and based on emergy theory. *Water Science and Technology: Water Supply*, 2017, 17(3): 674-687.

(17) **Wang H**, Wu Z, Hu C. A comprehensive study of the effect of input data on hydrology and non-point source pollution modeling. *Water resources management*, 2015, 29(5): 1505-1521.

(18) **Wang H**, Wu Z, Hu C, Du X. Water and nonpoint source pollution estimation in the watershed with limited data availability based on hydrological simulation and regression model. *Environmental Science and Pollution Research*, 2015, 22(18): 14095-14103.

(19) **Wang H**, Li X, Hao S. Effects of rainfall data resolution on watershed-scale model performance in predicting runoff. *Journal of Water and Climate Change*, 2015, 6(2): 227-240.

### 3、科研奖励

(1) 水资源生态经济价值能值评估关键技术与应用，2016，河南省科技进步二等奖（第五）

(2) 郑州市城区雨洪规律分析及内涝风险预警预报研究，2018，河南省水利科技进步一等奖（第四）