个人简历

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教育背景

2014/08 ~2017/12　美国University of Wyoming 水资源 博士 导师：Jianting (Julian) Zhu

2010/09 ~2013/06　郑州大学 水文学及水资源　　硕士 导师：左其亭

2006/09 ~ 2010/06　郑州大学 水利水电工程　　学士

工作经历

2018/10~至今　美国加州大学默塞德分校内华达山脉研究所，博士后 导师：Roger Bales

2018/04~2018/10 加拿大阿萨巴斯卡大学流域科学研究中心，博士后 导师：Junye Wang

2014/08~2017/12 美国怀俄明州大学土木工程系　　研究助理

论文发表

以第一作者正式发表英文SCI论文 6 篇，按中科院分区，4篇为二区以上，其中2篇为一区；中文期刊5篇。其他合作作者英文SCI论文6篇，中文期刊6篇。

英文论文：

1. **Cui, G.**, R. Bales, R. Rice, M. Anderson, F. Avanzi, P. Hartsough, and M. Conklin (2020), Detecting rain-snow-transition elevations in mountain basins using wireless-sensor networks, Journal of Hydrometeorology, 21(9), 2061–2081, (IF=4.158 中科院二区期刊).
2. **Cui, G.**, and J. Wang (2019), Improving the DNDC biogeochemistry model to simulate soil

temperature and emissions of nitrous oxide and carbon dioxide in cold regions, Science of The Total Environment, 687, 61-70, (IF=5.589 中科院一区Top期刊).

3. **Cui, G.**, and J. Zhu (2018), Prediction of unsaturated flow and water backfill during infiltration, Journal of Hydrology, 557, 509–521, (IF=3.727 中科院一区Top期刊).

4. **Cui, G.**, and J. Zhu (2018), Infiltration model based on traveling characteristics of wetting front, Soil Science Society of America Journal, 82(1), 45-55, (IF=1.920 中科院二区期刊).

5. **Cui, G.**, and J. Zhu (2017), Infiltration model in sloping layered soils and guidelines for model parameter estimation, Hydrological Sciences Journal, 62(13), 2222-2237, (IF=2.222 中科院三区期刊).

6. **Cui, G.**, and J. Zhu (2018), Modeling infiltration and runoff with surface crust under unsteady rainfalls, Journal of Hydrologic Engineering, 23(7), 04018027, (IF=1.576 中科院三区期刊).

7. Cheng, Y., **G. Cui**, and J. Zhu (2017), Using time compression approximation to determine actual infiltration rate from variable rainfall events, Hydrology Research, doi:10.2166/nh.2017.062.

8. Zuo, Q., and **G. Cui** (2013), International viewpoint and news: Chemical leaks contaminate Chinese river: Viewing environmental emergency response of China, Environmental Earth Sciences, 69(8), 2801–2803, doi:10.1007/s12665-013-2331-1.

9. Li, D., Q. Zuo, and **G.Cui** (2013), Disposal of chemical contaminants into groundwater: viewing hidden environmental pollution in China, Environmental Earth Sciences, 70(4), 1933–1935, doi:10.1007/s12665-013-2463-3.

10. Zuo, Q., R. Jin, J. Ma, and **G. Cui** (2014), China pursues a strict water resources management system, Environmental Earth Sciences, 72(6), 2219–2222, doi:10.1007/s12665-014-3369-4.

11. Zuo, Q., H. Zhao, C. Mao, J. Ma, and **G. Cui** (2015), Quantitative analysis of human-water relationships and harmony-based regulation in the Tarim river basin, Journal of Hydrologic Engineering, 20(8), 05014030, doi:10.1061/(ASCE)HE.1943-5584.0001118.

12. Zuo, Q., R. Jin, J. Ma, and **G. Cui** (2015), Description and application of a mathematical method for the analysis of harmony, The Scientific World Journal, doi:10.1155/2015/831396.

会议论文：

- **Cui,G.**, R. Bales, M. Conklin, R. Rice, F. Avanzi, and P. Hartsough (2019), Rain- snow transition elevation from wireless sensor network in American and Feather River basins, 87th Annual Western Snow Conference , Reno, Nevada, USA.

审稿中及待投论文：

- **Cui, G.**, R. Bales, R. Rice, M. Anderson, F. Avanzi, P. Hartsough, W. Guo, and M. Conklin, Mountain Precipitation Patterns in Mixed Rain-Snow Areas from a Distributed Wireless-Sensor Network (Under Review, Water Resources Research).
- **Cui, G.**, R. Bales, N. Stephenson, and M. Goulden, Water-stress vulnerability of giant-sequoia groves during extended droughts (To be submitted).
- **Cui, G.**, R. Bales, and M. Conklin, Real-time mountain snow estimate using deep learning and data assimilation (To be submitted).

中文论文：

1. 左其亭,**崔国韬**. 人类活动对河湖水系连通的影响评估[J]. 地理学报, 2020, 75(7), 1483-1493.
2. **崔国韬**,左其亭,李宗礼,窦明. 河湖水系连通功能及适应性分析[J]. 水电能源科学, 2012,(02):1-5.
3. 左其亭,**崔国韬**. 河湖水系连通理论体系框架研究[J]. 水电能源科学, 2012, (01) : 1-5.
4. **崔国韬**,左其亭. 人类活动对河湖水系连通关系的影响及量化评估[J]. 水资源研究,2012, 1, 326-333.
5. **崔国韬**,左其亭. 河湖水系连通与最严格水资源管理的关系[J].南水北调与水利科技, 2012,(02):129-132.
6. **崔国韬**,左其亭,窦明. 国内外河湖水系连通发展沿革与影响[J].南水北调与水利科技, 2011,(04):73-76.
7. **崔国韬**,左其亭. 生态调度研究现状与展望[J]. 南水北调与水利科技, 2011,(06) : 90-97.
8. 左其亭,**崔国韬**(郑州大学水利与环境学院). 完善水功能区管理和保障制度[N]. 中国水利报, 2012-03-15(006).
9. 窦明,**崔国韬**,左其亭,王偲,毛翠翠,许云峰. 河湖水系连通的特征分析[J]. 中国水利, 2011,(16):17-19.
10. 胡月,**崔国韬**. 基于新时期黑龙江水利发展的战略方向[J].黑龙江省水利科技,2012,(12):207-210.
11. 左其亭,张保祥,王宗志,关锋,**崔国韬**. 2011 年中央一号文件对水科学研究的启示与讨论[J]. 南水北调与水利科技, 2011,(05):68-73.

学术会议报告：

1. **Cui, G.**, R. Bales, R. Rice, M. Anderson,F. Avanzi, P. Hartsough, and M. Conklin, Detecting rain-snow transition elevations in mountain basins using wireless-sensor network, 2020 California Extreme Precipitation Symposium: Connecting Rain-on-Snow Events, Atmospheric Rivers, and Floods, , Davis, CA, USA, Jun 30, 2020. (特邀报告)
2. **Cui, G.**, R. Bales, M. Conklin, R. Rice, F. Avanzi, P. Hartsough, and W. Guo, Mountain Precipitation Patterns in Mixed Rain-Snow Areas from a Distributed Wireless-Sensor Network and a Random Forest Model, American Geophysical Union (AGU) Fall Meeting, Abstract C41B-01, San Francisco, CA, USA, Dec. 9–13, 2019. (口头报告)

3. Guo, W., S. Khan, R. Bales, **G. Cui**, Q. Ma, Simulating water-carbon interactions in a Mediterranean mountain ecosystem using a dynamic global vegetation model, American Geophysical Union (AGU) Fall Meeting, Abstract B21G-2410, San Francisco, CA, USA, Dec. 9–13, 2019. (海报)
4. **Cui, G.**, R. Bales, M. Conklin, R. Rice, F. Avanzi, P. Hartsough, and W. Guo, Estimating precipitation in a mountainous region from a wireless-sensor network, Southern Sierra Critical Zone Observatory 2019 Annual Meeting, Merced, CA, USA, Aug. 22, 2019. (海报)
5. **Cui, G.**, R. Bales, M. Conklin, R. Rice, F. Avanzi, and P. Hartsough, Rain- snow transition elevation from wireless sensor network in American and Feather River basins , 87th Annual Western Snow Conference , Reno, Nevada, USA, Apr. 15-18, 2019. (海报)
6. **Cui, G.**, and J. Zhu, A simple and accurate rate-driven infiltration model, American Geophysical Union (AGU) Fall Meeting, Abstract H33D-1704, New Orleans, LA, USA, Dec. 11–15, 2017. (海报)
7. **Cui, G.**, and J. Zhu, Dynamic modeling of infiltration in unsaturated layered soils, American Geophysical Union (AGU) Fall Meeting, Abstract H21C-1410, San Francisco, CA, USA, Dec. 12–16, 2016. (海报)
8. **Cui, G.**, and J. Zhu, Effective Green-Ampt parameters of sloping layered soils, American Geophysical Union (AGU) Fall Meeting, Abstract H23B-1583, San Francisco, CA, USA, Dec. 14–18, 2015. (海报)
9. **Cui, G.**, and J. Zhu, Effective hydraulic parameters for sloping heterogeneous soil formations, Soil Science Society of America (SSSA) Annual Meeting, Abstract 321-9, Minneapolis, MN, USA, Nov. 15–18, 2015. (海报)
10. **Cui, G.**, and J. Zhu, Infiltration model in layered soils: Application of steady-state modeling, Civil Engineering Seminar at University of Wyoming, Laramie, WY, USA, Mar. 9, 2017. (口头报告)
11. **崔国韬**,左其亭. 人类活动对河湖水系连通关系的影响及量化评估, 第十届中国水论坛, 武汉, 中国, 2012. (口头报告, 荣获中国水论坛2012年度十佳优秀青年论文奖)

参与科研项目

1、美国农垦部和加州水资源局项目：Defining the rain-snow transition zone in the Northern Sierra Nevada（**主要参与人**，参与阶段 2020 年 9 月-至今）

2、美国 NSF 国家自然基金：Southern Sierra Critical Zone Observatory （**参与人**，参与阶段 2018 年 10 月-至今）

3、加拿大阿尔伯塔省政府项目；Campus Alberta Innovates Program (CAIP) fund for Integrated Hydrological and Biogeochemical Modeling（**主要参与人**， 参与阶段：2018 年 4 月-2018 年 10 月）

4、水利部河湖水系连通项目：人类活动对河湖水系连通及功能的影响分析（**主要参与人**， 参与阶段：2011 年 1 月-2012 年 1 月）

5、水利部河湖水系连通项目：河湖水系连通案例分析、连通分类及总结（**主要参与人**，参与阶段：2012 年 1 月-2013 年 6 月）

6、国家自然科学基金项目：人水关系的和谐论调控理论方法研究（**参与人**， 参与阶段：2012 年 1 月-2013 年 6 月）

项目申请

1、美国农垦部和加州水资源局项目：Defining the rain-snow transition zone in the Northern Sierra Nevada（**项目申请书撰写人及主干人员**，项目时间 2020-2023, 资助美金 $600,000，已获批、在研）

2、美国 NSF 国家自然基金-技术转化创新项目：Advancing distributed wireless sensing for water-resources decision making（**项目申请书撰写人**，项目时间 2021-2023, 申请资助 $250,000，已提交申请）

其他服务

为下列 SCI 期刊的经常性审稿人

Geophysical Research Letters, Water Resources Research, Journal of Hydrology, Soil Science Society of America Journal, Agricultural and Forest Meteorology, Journal of Hydrologic Engineering, Environmental Pollution, Environmental Earth Sciences, Water, Geosciences, Entropy, Atmosphere, Environmental Science and Pollution Research, Mathematics