Guotao Cui

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Education

2014–Present	Ph.D. in Civil Engineering, **University of Wyoming**, WY, USA → Major in Water Resources, *Expected:* Dec. 2017 → Thesis topic: Infiltration in sloping layered soils → Adviser: Jianting (Julian) Zhu, Ph.D.
2010–2013	M.S. in Hydrology & Water Resources, **Zhengzhou University**, Henan, China → Adviser: Qiting Zuo, Ph.D.
2006–2010	B.S. in Water Conservancy & Hydropower Engineering, **Zhengzhou University**, Henan, China

Professional Service

- *Professional Affiliations:* American Geophysical Union (AGU), Member since 2015.
- *Peer Reviewer:* Journal of Hydrology.

Refereed Journal Publications

1. **Cui, G.**, and J. Zhu, Infiltration model based on traveling characteristics of wetting front, (Submitted to *Soil Science Society of America Journal*, August 2017).
2. **Cui, G.**, and J. Zhu, Prediction of unsaturated flow and water backfill during infiltration, (Submitted to *Journal of Hydrology*, September 2017).
3. **Cui, G.**, and J. Zhu (2017), Infiltration model in sloping layered soils and guidelines for model parameter estimation, *Hydrological Sciences Journal*, doi:10.1080/02626667.2017.1371848.
4. 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.
5. **Cui, G.**, and J. Zhu, Infiltration and runoff with surface crust under unsteady rainfalls using flux-concentration relation and time compression approximation, (In preparation).
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

Other Publications

11. **Cui, G.**, and Q. Zuo (2012), Analysis and quantitative evaluation of human activities affecting river system network interconnected relationship, *Journal of Water Resources Research*, *1*, 326–333. (in Chinese).

12. **Cui, G.**, and Q. Zuo (2012), Relationship between interconnected river system network and the strictest water resources management system, *South-to-North Water Transfers and Water Science & Technology*, *2*, 129–132. (in Chinese)
13. **Cui, G.**, Q. Zuo, Z. Li, and M. Dou (2012), Analysis of function and adaptability for interconnected river system network, *Water Resources and Power*, *2*, 1–5. (in Chinese)
14. **Cui, G.**, Q. Zuo, and M. Dou (2011), Development evolution and influences of the interconnected river system network at home and abroad, *South-to-North Water Transfers and Water Science & Technology*, *4*, 73–76. (in Chinese)
15. **Cui, G.**, and Q. Zuo (2011), Research status and prospect of ecological regulation, *South-to-North Water Transfers and Water Science & Technology*, *6*, 90–97. (in Chinese)
16. Zuo, Q., and **G. Cui** (2012), Study on theoretical system and framework of interconnected river system network, *Water Resources and Power*, *1*, 1–5. (in Chinese)
17. Dou M., **G. Cui**, Q. Zuo, C. Wang, C. Mao, and Y. Xu (2011), Character analysis of interconnected river system network, *China Water Resources*, *16*, 17–19. (in Chinese)
18. Zuo, Q., and **G. Cui** (2012), Improvement of management and protection system in water function zones, *China Water Resources News*, March 15, 2012. (Newspaper, in Chinese)
19. Hu, Y., and **G. Cui** (2012), Discussions on strategic direction of water conservancy development in Heilongjiang province, *Heilongjiang Science and Technology of Water Conservancy*, *12*, 207–210. (in Chinese)
20. Zuo, Q., B. Zhang, Z. Wang, F. Guan, and **G. Cui** (2011), Revelation and discussion on water science research from the "2011 No.1 document by the central committee of the CPC", *South-to-North Water Transfers and Water Science & Technology*, *5*, 68–73. (in Chinese)

Presentations

1. **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.
2. **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.
3. **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.
4. **Cui, G.**, and Q. Zuo, Analysis and quantitative evaluation of human activities affecting river system network interconnected relationship, *The 10th China Water Forum*, Wuhan, China, Aug. 24–26, 2012.
5. **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.
6. J. Zhu, and **G. Cui**, Green-Ampt model for sloping layered soils and evaluation of its parameters, *Engineering Initiative Seminar at University of Wyoming*, Laramie, WY, USA, Mar. 30, 2016.

Honours & Awards

- Summer Ph.D. Augmentation, University of Wyoming, WY, USA 2017
- "Zhang Guangdou Funding" Scholarship for Highly Promising Students, Tsinghua University Education Foundation, China 2013
- Outstanding Graduate Award of Henan Province, Department of Education of Henan Province, China 2013
- National Graduate Scholarship, Ministry of Education of China, China 2012
- Outstanding Graduate Research Award, Zhengzhou University, China 2012
- Outstanding Youth Paper Award of China Water Forum, China Society of Natural Resources, China 2012
- Graduate Scholarship, Zhengzhou University, China 2011
- Undergraduate Scholarship, Zhengzhou University, China 2007

Miscellaneous

- *Programming Languages:* Python, C++, GNU/Linux Bash, Fortran, Matlab, LaTeX.

References

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