CURRICULUM VITAE

HANSEOK JEONG

Associate Professor of Environmental Modeling
Seoul National University of Science and Technology

HOME ADDRESS
202-102, 36, Hwarang-ro 51na-gil
Nowon-gu, Seoul 01801
Republic of Korea
Mobile: +82-10-2956-8700
hanjeong@seoultech.ac.kr

OFFICE ADDRESS
Room 312, Chungun Hall
232 Gongneung-ro
Nowon-gu, Seoul 01811
Republic of Korea
Office: +82-2-970-6630

RESEARCH INTERESTS

Human Social Sensing[P.40, P.42, P.50, U.1], Human and Water Interactions (Sociohydrology)[P.20,P.23,P.28,P.35, P.39], Climate Crisis[P.27,P.45], Hydrologic and Water Quality Monitoring and Modeling[P.3,P.7,P.10,P.13,P.16,P.18,P.2,P.22,P.25,P.26,P.29,P.33,P.34,P.37, P.38, P.41, P.43, P.44, P.46, P.47, U2], Alternative Water Resources [P.1,P.2,P.4,P.5,P.6,P.8,P.9,P.11,P.12,P.21], Irrigation and Drainage[P.14,P.15,P.17,P.19,P.24,P.30,P.31]

PROFESSIONAL EXPERIENCE

10/2023 −Present **Associate Professor**
Department of Environmental Engineering, Seoul National University of Science and Technology, Korea

08/2019 − 09/2023 **Assistant Professor**
Department of Environmental Engineering, Seoul National University of Science and Technology, Korea

04/2016 − 07/2019 **Post-Doctoral Researcher**
Department of Agricultural and Biological Engineering, University of Illinois at Urbana-Champaign, IL

09/2014 − 03/2016 **Research Associate**
Institute of Green Bio Science and Technology, Seoul National University, Korea

03/2007 − 02/2008; 03/2011 − 08/2014 **Research Assistant**
Department of Rural Systems Engineering, Seoul National University, Korea

03/2008− 09/2010 **International Cooperative Volunteer**
Vietnam Office of Korea International Cooperation Agency, Vietnam

EDUCATION

03/2007−08/2014 **Seoul National University**, Korea
Ph.D. in Agricultural and Rural Systems Engineering
Dissertation: *Modeling Socio-Hydrological Systems for Wastewater Reused Watersheds*
Advisor: Seung Woo Park

03/2003−02/2007 **Seoul National University**, Korea
Bachelor of Science (*summa cum laude*) in Rural Systems Engineering

TEACHING

- *Environmental Fluid Mechanics* (3 credits; Falls)
- *Environmental Impact Assessment* (3 credits; Falls)
- *Big Data and Environmental Modeling* (3 credits; Springs)
- *Modeling the Environment* (3 credits; Graduate)
- *Sociohydrology* (3 credits; Graduate)
- *Environmental Hydrology* (3 credits; Graduate)
- *Hydrologic and Water Quality Modeling* (3 credits; Graduate)

PEER-REVIEWED JOURNAL ARTICLES

UNDER REVIEW

U.1 Kim, JungJin, Kyungtae Lim, Jan Adamowski, and **Hanseok Jeong**†, 2025. Assessing Human-Generated Environmental Big Data to Unveil the True Capacity of Text Mining Techniques. *Government Information Quarterly.*

U.2 Kim, Kyungmin, JungJin Kim, Taejin Park, Tim H.M. van Emmerik, and **Hanseok Jeong**†, 2025. Exploring the Influence of Anthropogenic and Natural Factors on the Distribution of Microplastics in Freshwater Environments. *Environmental Technology & Innovation.*

PUBLISHED

P.50 Kim, JungJin, Jan Adamowski, Seonyoung Park, Kyungtae Lim, and **Hanseok Jeong**†, 2025. A Systematic Study of Hyperparameter Tuning for Environmental Text Classification: Implications for Environmental Management. *Journal of Environmental Informatics*. 45(1), 41-56. https://doi.org/10.3808/jei.202500545.

P.49 Hwang, Soonho, Shailendra Singh, Rabin Bhattarai, **Hanseok Jeong**, and Richard A. Cooke, 2024. Impact of Subsurface Drainage System Design on Nitrate Loss and Crop Production. *Applied Sciences* 14(22), 10180. https://doi.org/10.3390/app142210180.

P.48 Hwang, Soonho, Rabin Bhattarai, and **Hanseok Jeong**, 2024. Assessment of Drainage Discharge and Nitrate-Nitrogen Loads According to Subsurface Drainage Design in Corn Cultivated Agricultural Land in Illinois, USA. *Journal of the Korean Society of Agricultural Engineers* 66(3), 15-23. https://doi.org/10.5389/KSAE.2024.66.3.015.

P.47 Kim, JungJin, Younggu Her, Rabin Bhattarai, and **Hanseok Jeong**†, 2023. Improving nitrate load simulation of the SWAT model in an extensively tile-drained watershed. *Science of The Total Environment* 904, 166331. https://doi.org/10.1016/j.scitotenv.2023.166331.

P.46 Dubey, Swatantra Kumar, JungJin Kim, Younggu Her, Devesh Sharma, and **Hanseok Jeong**†, 2023. Hydroclimatic Impact Assessment Using the SWAT Model in India—State of the Art Review. *Sustainability* 15(22), 15779. https://doi.org/10.3390/su152215779.

P.45 Dubey, Swatantra Kumar, JungJin Kim, Syewoon Hwang, Younggu Her, and **Hanseok Jeong**†, 2023. Variability of Extreme Events in Coastal and Inland Areas of South Korea during 1961–2020. *Sustainability* 15(16), 12537. https://doi.org/10.3390/su151612537.

P.44 Kim, Kyungmin, Taejin Park, and **Hanseok Jeong**†, 2023. Applicability of the WASP8 in simulating river microplastic concentration. *Journal of Korea Water Resources Association* 56(5), 337-345. https://doi.org/10.3741/JKWRA.2023.56.5.337.

P.43 Mundetia, Nitika, Devesh Sharma, Aditya Sharma, Swatantra Kumar Dubey, Bijon K Mitra, Rajarshi Dasgupta, and **Hanseok Jeong**, 2023. Assessment of hydrological response with an integrated approach of climate, land, and water for sustainable water resources in the Khari River basin, India. *Anthropocene* 41, 100373. https://doi.org/10.1016/j.ancene.2023.100373.

P.42 Jeong, Wuseong, JungJin Kim, and **Hanseok Jeong**†, 2023. Information Extraction from Unstructured Data on Microplastic through Text Mining. *Journal of Korean Society of Environemntal Engineers* 45(1), 34-42. https://doi.org/10.4491/KSEE.2023.45.1.34. (Paper of the Month Awarded)

P.41 Kim, JungJin, Rabin Bhattarai, Laura E Christianson, and **Hanseok Jeong**†, 2022. Advanced practice-aided tile drain configuration: A solution to achieving environmentally sustainable agricultural production. *Journal of Cleaner Production* 379, 134724. https://doi.org/10.1016/j.jclepro.2022.134724.

P.40 Kim, JungJin, Han-Ul Kim, Jan Adamowski, Shadi Hatami, and **Hanseok Jeong**†, 2022. Comparative study of term-weighting schemes for environmental big data using machine learning. *Environmental Modelling & Software* 157, 105536. https://doi.org/10.1016/j.envsoft.2022.105536.

P.39 Yu, David J, Melissa Haeffner, **Hanseok Jeong**, Saket Pande, Juliane Dame, Giuliano Di Baldassarre, Glenda Garcia-Santos, Leon Hermans, Rachata Muneepeerakul, Fernando Nardi, Matthew R Sanderson, Fuqiang Tian, Yongping Wei, Josepha Wessels, and Murugesu Sivapalan, 2022. On capturing human agency and methodological interdisciplinarity in socio-hydrology research. *Hydrological Sciences Journal* 67(13), 1905-1916. https://doi.org/10.1080/02626667.2022.2114836.

P.38 Gupta, Rishabh, Rabin Bhattarai, Jonathan W Coppess, **Hanseok Jeong**, Michael Ruffatti, and Shalamar D Armstrong, 2022. Modeling the impact of winter cover crop on tile drainage and nitrate loss using DSSAT model. *Agricultural Water Management* 272: 107862. https://doi.org/10.1016/j.agwat.2022.107862.

P.37 Singh, Shailendra, Lamyaa Negm, **Hanseok Jeong**, Richard Cooke, and Rabin Bhattara, 2022. Comparison of simulated nitrogen management strategies using DRAINMOD-DSSAT and RZWQM2. *Agricultural Water Management* 266, 107597. https://doi.org/10.1016/j.agwat.2022.107597.

P.36 Kim, Kyungmin, Wuseong Jeong, Rabin Bhattarai, and **Hanseok Jeong**†, 2022. Designing a Subsurface Drainage System: A Trade-Off Between Environmental Sustainability and Agricultural Productivity. *Journal of the Korean Society of Agricultural Engineers* 64(3), 53-61. https://doi.org/10.5389/KSAE.2022.64.3.053. (Paper of the Year Awarded)

P.35 Khan, Manas, Vaskar Dahal, **Hanseok Jeong**, Momcilo Markus, and Rabin Bhattarai, 2021. Relative Contribution of Climate Change and Anthropogenic Activities to Streamflow Alterations in Illinois. *Water* 13(22), 3226. https://doi.org/10.3390/w13223226.

P.34 Kim, Dong-Hyeon, Taeil Jang, Syewoon Hwang, **Hanseok Jeong**, and Soon-Kun Choi, 2021. APEX-Paddy model simulation of hydrology, total nitrogen, and rice yield for different agricultural activities in paddy fields. *Paddy and Water Environment* 19, 609-622. https://doi.org/10.1007/s10333-021-00860-9.

P.33 Kim, Dong-Hyeon, Taeil Jang, Syewoon Hwang, **Hanseok Jeong**, and Soon-Kun Choi, 2021. Paddy rice adaptation strategies to climate change: Transplanting date shift and BMP applications. *Agricultural Water Management* 252: 106926. https://doi.org/10.1016/j.agwat.2021.106926.

P.32 Kamruzzaman, Mohammad, Syewoon Hwang, Soon-Kun Choi, Jaepil Cho, Inhong Song, **Hanseok Jeong**, Jung-Hun Song, Teail Jang, and Seung-Hwan Yoo, 2020. Prediction of the effects of management practices on discharge and mineral nitrogen yield from paddy fields under future climate using APEX-paddy model. *Agricultural Water Management* 231: 105983. https://doi.org/10.1016/j.agwat.2020.106345.

P.31 Kim, Soo-Jin, Seungjong Bae, Hakkwan Kim, and **Hanseok Jeong**, 2020. Effects of Saline Irrigation Water on Crop Growth in Strawberry and Red Radish. *Journal of the Korean Society of Agricultural Engineers* 62(3): 85-94. https://doi.org/10.5389/KSAE.2020.62.3.085.

P.30 Kim, Hakkwan, Soojin Kim, Jihye Jeon, and **Hanseok Jeong**†, 2020. Effects of Irrigation with Desalinated Water on Lettuce Grown Under Greenhouse in South Korea. *Applied Science* 10(7), 2207: 1-13. doi:10.3390/app10072207.

P.29 Kamruzzaman, Mohammad, Syewoon Hwang, Soon-Kun Choi, Jaepil Cho, Inhong Song, Jung-hun Song, **Hanseok Jeong**, Taeil Jang, and Seung-Hwan Yoo, 2020. Evaluating the Impact of Climate Change on Paddy Water Balance Using APEX-Paddy Model. *Water* 12(3), 852. Doi:10.3390/w12030852.

P.28 **Jeong, Hanseok**, Rabin Bhattarai, Jan Adamowski, and David J. Yu, 2020. Insights from socio-hydrological modeling to design sustainable wastewater reuse strategies for agriculture at the watershed scale. *Agricultural Water Management* 231: 105983. https://doi.org/10.1016/j.agwat.2019.105983.

P.27 **Jeong, Hanseok**, Rabin Bhattarai, and Syewoon Hwang, 2019. How climate scenarios alter future predictions of field-scale water and nitrogen dynamics and crop yields. *Journal of Environmental Management* 252: 109623. https://doi.org/10.1016/j.jenvman.2019.109623.

P.26 Kamruzzaman, Mohammad, Syewoon Hwang, Jaepil Cho, Min-Won Jang, and **Hanseok Jeong**, 2019. Evaluating the Spatiotemporal Characteristics of Agricultural Drought in Bangladesh using Effective Drought Index. *Water* 11(11), 1851. doi: 10.3390/w10121851.

P.25 **Jeong, Hanseok**, Cameron Pittelkow, and Rabin Bhattarai, 2019. Simulated responses of tile-drained agricultural systems to recent changes in ambient atmospheric gradients. *Agricultural Systems* 168: 48-55. doi: 10.1016/j.agsy.2018.10.005.

P.24 **Jeong, Hanseok**, Rabin Bhattarai, Syewoon Hwang, Jae-Gwon Son, and Taeil Jang, 2018. How Ångström–Prescott Coefficients Alter the Estimation of Agricultural Water Demand in South Korea. *Water* 10(12), 1851. doi: 10.3390/w10121851.

P.23 Sung, Kyungmin, **Hanseok Jeong**, Nikhil Sangwan, and David J. Yu, 2018. Effects of flood control strategies on flood resilience under sociohydrological disturbances. *Water Resources Research* 54: 2661-2680. doi: 10.1002/2017WR021440.

P.22 **Jeong, Hanseok**, and Rabin Bhattarai, 2018. Exploring the effects of nitrogen fertilization management alternatives on nitrate loss and crop yields in tile-drained fields in Illinois. *Journal of Environmental Management* 213: 341-352. doi: 10.1016/j.jenvman.2018.02.062.

P.21 **Jeong, Hanseok**, Chounghyun Seong, Taeil Jang, and Seung Woo Park, 2016. Classification of wastewater reuse for agriculture: A case study in South Korea. *Irrigation and Drainage* 65: 76-85. doi: 10.1002/ird.2053.

P.20 **Jeong, Hanseok**, and Jan Adamowski, 2016. A system dynamics based socio-hydrological model for agricultural wastewater reuse at the watershed scale. *Agricultural Water Management* 171: 89-107. doi: 10.1016/j.agwat.2016.03.019.

P.19 **Jeong, Hanseok**, Hakkwan Kim, and Taeil Jang, 2016. Irrigation water quality standards for indirect wastewater reuse in agriculture: a contribution toward a sustainable wastewater reuse. *Water* 8(4), 169: 1-18. doi:10.3390/w8040169.

P.18 Kim, Hakkwan, **Hanseok Jeong**†, Jihye Jeon, and Seungjong Bae, 2016. The impact of impervious surface on water quality and its threshold in Korea. *Water* 8(4), 111: 1-9. doi:10.3390/w8040111.

P.17 Kim, Hakkwan, **Hanseok Jeong**†, Jihye Jeon, and Seungjong Bae, 2016. Effects of irrigation with saline water on crop growth and yield in greenhouse cultivation. *Water* 8(4), 127: 1-9. doi:10.3390/w8040127.

P.16 **Jeong, Hanseok**, Hakkwan Kim, Taeil Jang, and Seung Woo Park, 2016. Assessing the effects of indirect wastewater reuse on paddy irrigation in the Osan River watershed in Korea using the SWAT model. *Agricultural Water Management* 163: 393-402. doi:10.1016/j.agwat.2015.08.018.

P.15 Park, Seung Woo, **Hanseok Jeong**, and Hakkwan Kim, 2015. Water treatment techniques for securing the quality of irrigation water: an overview of the state-of-the-arts. *Proceedings of the National Academy of Sciences of Republic of Korea* 54(2): 83-108.

P.14 Jeon, Jihye, **Hanseok Jeong**†, and Hakkwan Kim, 2015. Effects of saline irrigation water on lettuce and carrot growth in protected cultivation. *Journal of the Korean Society of Agricultural Engineers* 57(4): 113-120. doi:10.5389/KSAE.2015.57.4.113.

P.13 Kim, Hakkwan, **Hanseok Jeong**†, and Seungjong Bae, 2015. Deriving water quality criteria of total nitrogen for nutrient management in the stream. *Journal of the Korean Society of Agricultural Engineers* 57(3): 121-127. doi:10.5389/KSAE.2015.57.3.121.

P.12 **Jeong, Hanseok**, Taeil Jang, Chounghyun Seong, and Seung Woo Park, 2014. Assessing nitrogen fertilizer rates and split applications using the DSSAT model for rice irrigated with urban wastewater. *Agricultural Water Management* 141: 1-9. doi:10.1016/j.agwat.2014.04.009.

P.11 Jung, Kiwoong, Taeil Jang, **Hanseok Jeong**, and Seung Woo Park, 2014. Assessment of growth and yield components of rice irrigated with reclaimed

wastewater. *Agricultural Water Management* 138: 17-25. doi:10.1016/j.agwat.2014.02.017.

P.10 **Jeong, Hanseok**, Chounghyun Seong, and Seung Woo Park, 2014. Modeling daily streamflow in wastewater reused watersheds using system dynamics. *Journal of the Korean Society of Agricultural Engineers* 56(6): 45-53. doi:10.5389/KSAE.2014.56.6.045.

P.9 Song, Junghun, **Hanseok Jeong**†, Jihoon Park, Moon Seong Kang, Inhong Song, and Seung Woo Park, 2014. Analysis of water quality and soil environment in paddy fields partially irrigated with untreated wastewater. *Journal of the Korean Society of Agricultural Engineers* 56(6): 19-29. doi:10.5389/KSAE.2014.56.6.019.

P.8 Jang, Taeil, Myungpyo Jung, Eunjeong Lee, Seung Woo Park, Joonho Lee, and **Hanseok Jeong**, 2013. Assessing environmental impacts of reclaimed wastewater irrigation in paddy fields using bioindicator. *Irrigation Science* 31: 1225-1236. doi:10.1007/s00271-013-0401-5.

P.7 **Jeong, Hanseok**, Hakkwan Kim, Chounghyun Seong, Taeil Jang, and Seung Woo Park, 2013. Effects of wastewater effluent on river discharge using SWAT model. *Journal of Agriculture and Life Science* 44(1): 32-38. Available at http://210.101.116.28/W_files/kiss10/77400802_pv.pdf.

P.6 **Jeong, Hanseok**, Jihoon Park, Chounghyun Seong, Taeil Jang, and Seung Woo Park, 2013. Effects of indirect wastewater reuse on water quality and soil environment in paddy fields. *Journal of the Korean Society of Agricultural Engineers* 55(3): 91-104. doi:10.5389/KSAE.2013.55.3.091.

P.5 Jun, Sangmin, Inhong Song, **Hanseok Jeong**, Moon Seong Kang, and Seung Woo Park, 2013. Statistics and probability distribution of total coliforms in wastewater. *Journal of the Korean Society of Agricultural Engineers* 55(3): 17-23. doi:10.5389/KSAE.2013.55.3.105.

P.4 **Jeong, Hanseok**, Kyo Suh, Taeil Jang, Chounghyun Seong, Hakkwan Kim, and Seung Woo Park, 2013. Economic analysis of wastewater reuse systems for agricultural irrigation using a system dynamics approach. *Journal of the Korean Society of Agricultural Engineers* 55(2): 9-20. doi:10.5389/KSAE.2013.55.2.009.

P.3 Kim, Jihye, **Hanseok Jeong**†, Moon Seong Kang, Inhong Song, and Seung Woo Park, 2012. Simulation of 10-day irrigation water quality using SWAT-QUALKO2 linkage model. *Journal of the Korean Society of Agricultural Engineers* 54(6): 53-63. doi:10.5389/KSAE.2012.54.6.053.

P.2 Jang, Taeil, Syewoon Hwang, **Hanseok Jeong**, Moon Seong Kang, and Seung Woo Park, 2012. Evaluating the soil salinity of reclaimed wastewater irrigation in paddy plots using the Soil-Water-Atmosphere-Plant Model and water management response indicators. *Journal of the Korean Society of Agricultural Engineers* 54(2): 103-113. doi:10.5389/KSAE.2012.54.2.103.

P.1 **Jeong, Hanseok**, Chounghyun Seong, Taeil Jang, Kiwoong Jeong, Moon Seong Kang, and Seung Woo Park, 2011. Effects of reclaimed wastewater irrigation on paddy rice yields and fertilizer reduction using the DSSAT model. *Journal of the Korean Society of Agricultural Engineers* 53(4): 67-74. doi:10.5389/KSAE.2011.53.4.067.

INVITED TALKS

SEMINARS

T.8 **Jeong, Hanseok**. Why Do We Have to Model the Environment?, Invited presentation at Department of Global Smart City of Sungkyunkwan University (Suwon, Korea, September 2023).

T.7 **Jeong, Hanseok**. Why Do We Have to Model the Environment?, Invited presentation at Department of Rural Systems Engineering of Seoul National University (Seoul, Korea, September 2023).

T.6 **Jeong, Hanseok**. Why Do We Have to Model the Environment?, Invited presentation at Korean Society of Environmental Engineers (Seoul, Korea, October 2022).

T.5 **Jeong, Hanseok**. Sociohydrology on the Boundaries, Invited presentation at Department of Rural Systems Engineering of Seoul National University (Seoul, Korea, October 2022).

T.4 **Jeong, Hanseok**. Sociohydrology on the Boundaries, Invited presentation at Korean Water Resources Association (Seoul, Korea, July 2022).

T.3 **Jeong, Hanseok**. Environmental Management, Invited presentation at Department of Rural Systems Engineering of Seoul National University (Seoul, Korea, October 2019).

T.2 **Jeong, Hanseok**. Environmental Modeling and Big Data, Invited presentation at Department of Environmental Engineering of Seoul National University of Science and Technology (Seoul, Korea, June 2019).

T.1 **Jeong, Hanseok**. Modeling socio-hydrological systems for wastewater reused watersheds, Invited presentation at Graduate School of International Agricultural Technology of Seoul National University (Pyeongchang, Korea, February 2015).

PATENTS

• Jeong, Hanseok, JungJin Kim, 2025. *Method and Apparatus for Providing Community Environmental Services Information*. Patent Number: 10-2853052 (Korea).

• Park, Seung Woo., Won Gil Bae, Hakkwan Kim, **Hanseok Jeong**, Jihye Jeong, Min Hong, Jong Hwa Son, Han Cheol Yu, 2016. *Brackish Water Desalination Device Using High-Speed Liquid-Solid Separation System*. Patent Number: 10-1612440 (Korea).

• Son, Jong Hwa, Seung Woo Park, **Hanseok Jeong**, Min Hong, Haedo Kim, Sun Hwa Choi, 2015. *Method for Supplying Agricultural Water using Multistage Multicyclone System*. Patent Number: 10-1565149 (Korea).

• Son, Jong Hwa, Seung Woo Park, **Hanseok Jeong**, Min Hong, Haedo Kim. 2015. *Apparatus for Producing Agricultural Water using Multistage Multicyclone System*. Patent Number: 10-1495259 (Korea).

• Son, Jong Hwa, Seung Woo Park, **Hanseok Jeong**, Min Hong, Hyunseob Hwang, Haedo Kim, Kwang Ya Lee., Ji Hoon Cho, Kuk Hyun Han, 2012. *Method for Reusing the Agricultural Water of Wastewater Effluent and Water of River Using the Agricultural Water Apparatus*. Patent Number: 10-1206477 (Korea).

AWARDS AND HONORS

10/2023 **Paper of the Year**
Korean Society of Agricultural Engineers

01/2023 **Researcher of the Month Award**
Korean Society of Environmental Engineers

06/2019 **Travel Grant Award**
NCERA 217: Agricultural Drainage Management Systems Task Force, Moorhead

02/2007 **Graduate with Top Honors**
Seoul National University Commencement

02/2004 **Seoul National University Honorary Scholarships**

FUNDING

Funding source	Year	Amount
Project Grant (PI), National Research Foundation of Korea	2025	$1,000,00
Project Grant (Co-PI), National Institute of Environmental Research	2024	$80,000
Project Grant (PI), National Research Foundation of Korea	2023	$40,000
Project Grant (Co-PI), National Institute of Environmental Research	2022	$20,000
Project Grant (PI), National Research Foundation of Korea	2021	$400,000
Project Grant (PI), Seoul Green Environment Center	2021	$25,000
Project Grant (Co-PI), National Research Foundation of Korea	2020	$5,833,333
Project Grant (PI), National Research Foundation of Korea (declined)	2019	$37,500
Project Grant (PI), Korea International Cooperation Agency	2009	$37,352

PUBLIC SERVICE

EDITORIAL BOARD

Journal	Role	Period
Paddy and Water Environment	Editor	2024 - present

PEER REVIEWER *Critical Reviews in Environmental Science and Technology; Resources, Conservation & Recycling; Information Processing & Management; Agricultural Systems; Agricultural Water Management; Environmental Impact Assessment Review; Journal of Environmental Management; Science of The Total Environment; Hydrological Sciences Journal; International Journal of Climatology; Journal of the American Water Resources Association; Scientific Reports; Paddy and Water Environment; PLOS ONE*