

Nomination letter for IAHR fluid mechanics committee Leadership Team

Professor Guangqiu Jin comes from Hohai University in China. His research field focuses on fluid mechanics and the hydrodynamic process between surface and subsurface water. Recently, he is particularly interested in dynamic processes that drive hyporheic exchange at various scale, and its influence over biogeochemistry in the streambed. In these fields, he has published and co-authored 50 journal articles in top journals. Some of them revealed important exchange mechanisms between surface and subsurface water. He has organized several international workshops and meetings at Hohai University and IAHR.

He joined IAHR in 2008 as a Ph.D. candidate. In retrospect, participating in the activities of IAHR has really been of great help to his academic career. Now, he would like to use his energy, experience, and connections to repay IAHR and promote cooperations through IAHR. And he believes that his enthusiasm and multi-disciplinary background in surface and subsurface water can contribute to a better development of fluid mechanics in IAHR.

CURRICULUM VITAE OF GUANGQIU JIN

PERSONAL DETAILS

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QUALIFICATIONS

2009 Doctor of Engineering (Hydraulic), College of Water Conservancy and Hydropower Engineering, Hohai University, Nanjing, P. R. China (thesis title “Hyporheic Exchange Induced by Current-Bedform Interactions in Rivers”).

- 2010 Master of Engineering (Hydraulic Structure), School of Civil Engineering, Hefei University of Technology, Hefei, P. R. China (thesis title “Genetic Algorithms and Artificial Neural Networks Apply in Forecast of Dam Security Monitoring”).
- 2011 Bachelor of Engineering (Hydraulic), School of Civil Engineering, Hefei University of Technology, Hefei, P. R. China.

EMPLOYMENT RECORD

DATES	DETAILS OF APPOINTMENT
May 2012 onwards	Professor of Hydraulics and River Dynamics, College of Water Conservancy and Hydropower Engineering, Hohai University, Nanjing, P. R. China
November 2015-December 2016	Visiting Professor, School of Civil Engineering, The University of Queensland, Australia
March 2015-May 2015	Visiting Professor, School of Civil Engineering, The University of Queensland, Australia
July 2014-September 2014	Visiting Professor, School of Civil Engineering, The University of Queensland, Australia
January 2013-March 2013	Visiting Professor, School of Civil Engineering, The University of Queensland, Australia
March 2009-April 2012	Lecturer of Hydraulics and River Dynamics, College of Water Conservancy and Hydropower Engineering, Hohai University, Nanjing, P. R. China
September 2009- September 2009	Visiting Scholar, School of Civil Engineering, The University of Queensland, Australia

MAIN RESEARCH INTERESTS AND AREAS

- Hyporheic exchange induced by current-bedform interactions
- Fluid mechanics
- Porous media flow and mass transport (groundwater flow and solute transport)
- Ocean-land interactions
- Coastal processes (intertidal zones)
- Eco-environmental system modelling
- Coastal Reservoir

RESEARCH FUNDS RECEIVED

- 2020-2022 As 2nd CI, Water ecology and safety monitoring system based on artificial intelligence. *National Key R&D Program of China*, RMB 2M (Tang Hongwu, **Jin Guangqiu**, Wei Qi, Jiang Qihao, Cao Hao, Hao Yongfei, Shao Wenhui, Li Xingwei)
- 2017-2020 As 1st CI, Migration and transformation of solute at stream-groundwater interface under different runoff conditions, *General Program of Natural Science Foundation of Jiangsu Province*, RMB 100,000 (**Jin Guangqiu**, Li Ling, Huang Xianfeng, Wen Xin, Jiang Qihao, Chen Yilin, Mo Yuming, Xu Jing, Jin Kai, Miao Xue)
- 2017-2020 As 1st CI, Transport and transformation of biogenic elements at the stream-groundwater interface. *General Program of Natural Science Foundation of China*, RMB 620,000 (**Jin Guangqiu**, Yuan Saiyu, Zeng Cheng, Lv Shengqi, Zhang Pei, Jiang Qihao, Chen Yilin, Xu Jing, Cheng Cheng, Liu Zhenyu)
- 2016-2018 As 1st CI, Hyporheic exchange process and its environmental effects, *High-level talent program of six talent peaks of Jiangsu Province*, RMB 100,000 (**Jin Guangqiu**)
- 2015-2017 As 1st CI, Stream-groundwater exchange process, *Outstanding Youth Program of State Key Laboratory of China*, RMB 300,000 (**Jin Guangqiu**, Li Ling, Yuan Saiyu, Zhang Pei, Jiang Qihao, Yang Wenhui, Chen Yilin)
- 2014-2018 As 6th CI, Mechanism of interaction between water and sediment, *The Special Fund of State Key Laboratory of China*, RMB 2M (Li Ling, Tang Hongwu, Wang Lingling, Xiao Yang, Xin Pei, **Jin Guangqiu**)
- 2015-2018 As 1st CI, Mechanisms of saltwater intrusion in coastal reservoirs, *General Program of Natural Science Foundation of China*, RMB 840,000 (**Jin Guangqiu**, Li Ling, Huang Xianfeng, Zhao Zhongwei, Zhao Hongjun, Shao Yuyang, Yuan Saiyu, Zhang Pei, Wang Hao, Xie Tianyun)
- 2013-2017 As 3rd CI, The action mechanism of water flow and sediment movement on pollutant transport in plain river and environmental control, *Key Project of Natural Science Foundation of China*, RMB 2.9M (Tang Hongwu, Wang Lingling, **Jin Guangqiu**, Xiao Yang, Dai Wenhong, Yan Jing, Chen Hong).
- 2013-2016 As 2nd CI, Flow and mass transport processes in coastal salt marshes, *National Science Foundation of China*, RMB 820,000 (L. Li, **Jin Guangqiu**, Kong Jun, Zhao Hongjun, Hua Guofen)

- 2012-2014 As 1st CI, Hyporheic exchange and deposition characteristics of colloids in rivers, *National Science Foundation of China*, RMB 250,000 (**Jin Guangqiu**, L. Li, Hua Guofen, Cao Miao)
- 2012-2016 As 7th CI, Responses of lake and wetland ecosystems to varying lake-river relationship in the Yangtze River Basin, Subprogram 5, *National Basic Research Program of China*, RMB 6.6 M (LI Ling, Chen Yuwei, Lei Guangchun, Fang Guohua, Xie Yonghong, Zhang Lu, Jin Guangqiu).
- 2011-2014 As 1st CI, The Effect of colloid clogging on hyporheic exchange between stream and streambed, *General Program of Natural Science Foundation of Jiangsu Province*, RMB 100,000 (Jin Guangqiu, L. Li, Xia Jihong, Mao Jingqiao, Hua Guofen, Cao Miao, Zhou Xiaorong)
- 2012-2014 As 1st CI, Transport process of colloid in the hyporheic zone, *The Research Fund for the Doctoral Program of Higher Education*, RMB 40,000 (**Jin Guangqiu**, L. Li, Hua Guofen, Cao Miao).
- 2011-2013 As 1st CI, Colloid exchange process between surface and subsurface, *The Special Fund of State Key Laboratory of China*, RMB 200,000 (**Jin Guangqiu**, L. Li, Hua Guofen, Cao Miao).
- 2011-2013 As 2nd CI, Hydraulic process in the salt marsh, *The Special Fund of State Key Laboratory of China*, RMB 800,000 (L. Li, **Jin Guangqiu**, Liu Ling, Dai Huichao, Mao Jingqiao, Ruan Aidong).
- 2009-2013 As 2nd CI, Interface process between surface and subsurface, *the Fundamental Research Funds for the Central Universities*, RMB 500,000 (L. Li, **Jin Guangqiu**, Kong Jun, Cao Miao).
- 2009-2011 As 1st CI, Hyporheic Exchange Mechanism due to Interactions between Current and Bedform in Rivers, *the Natural Science Foundation of Hohai University*, RMB 10,000 (**Jin Guangqiu**, Cao Miao, Yang Xiaoquan, Zhou Xiaorong).
- 2009-2011 As 1st CI, Hyporheic Exchange Mechanism in Rivers, *the Fundamental Research Funds for the Central Universities*, RMB 50,000 (**Jin Guangqiu**, Li Ling, Cao Miao, Yang Xiaoquan).

PRIZES AND AWARDS

- 2018 Best Paper at the International Conference for Coastal Reservoir Research (**Jin Guangqiu**, Li Mengdi, Mo Yuming, Tang Hongwu, Qi Yongzheng, Li Ling. International Association for Coastal Reservoir

- Research)
- 2015 Second Prize of Outstanding Junior College Graduation Design (paper) in Jiangsu Province (Ph.D. candidate Chen Yilin)
- 2013 Excellent Award of the Tenth Nanjing Excellent Academic Paper of Natural Science (**Jin Guangqiu**, Tang Hongwu, Li Ling, D. A. Barry. Hyporheic flow under periodic bedforms influenced by low-density gradients. *Geophysical Research Letters*, 2011, 38: L22401)
- 2013 Hohai University Outstanding Innovative Talents Award
- 2013 Excellent Young Teacher Scholarship of the Third Batch of Excellent Young Teachers and Principals of Overseas Training Project from Jiangsu Provincial Department of Education
- 2011 Top 100 Most Cited Chinese Papers Published in International Journals (**Jin Guangqiu**, Tang Hongwu, Badin Gibbes, Li Ling, D. A. Barry. Transport of nonsorbing solutes in a streambed with periodic bedforms. *Advances in Water Resources*, 2010, 33(11): 1402–1416)

PUBLICATION LIST

Referred journal articles

- [1] **Jin Guangqiu**, Zhang Zhongtian, Yang Yihang, Hu Shuheng, Tang Hongwu, Barry David Andrew, Li Ling. Mitigation of impact of a major benzene spill into a river through flow control and in-situ activated carbon absorption.[J]. *Water Research*, 2020,172. doi: 10.1016/j.watres.2020.115489
- [2] **Guangqiu Jin**, J Xu, Y Mo, H Tang, T Wei, YG Wang, L Li. Response of sediments and phosphorus to catchment characteristics and human activities under different rainfall patterns with Bayesian Networks[J].*Journal of Hydrology*, 2020, 584, 124695. doi: 10.1016/j.jhydrol.2020.124695
- [3] Yilin Chen, **Guangqiu Jin**, Pei Zhang, S.A. Galindo-Torres,A. Scheuermann,Ling Li. An efficient framework for particle-fluid interaction using Discrete Element Lattice Boltzmann Method: Coupling scheme and periodic boundary condition[J]. *Computers and Fluids*,2020,208. doi: 10.1016/j.compfluid.2020.104613
- [4] Qihao Jiang, **Guangqiu Jin**, Hongwu Tang, Chengji Shen, Mohsen Cheraghi, Junzeng Xu, Ling Li, D.A. Barry. Density-dependent solute transport in a layered hyporheic zone[J]. *Advances in Water Resources*,2020,142. doi: 10.1016/j.advwatres.2020.103645
- [5] Jing Xu, **Guangqiu Jin**, Yuming Mo, et al. Assessing Anthropogenic Impacts on Chemical and Biochemical Oxygen Demand in Different Spatial Scales with Bayesian Networks. *Water*,2020, 12(1). doi: 10.3390/w12010246

- [6] Jing Xu, **Guangqiu Jin**, Hongwu Tang, Yuming Mo, You-Gan Wang, Ling Li. Response of water quality to land use and sewage outfalls in different seasons[J]. *Science of the Total Environment*,2019,696. doi: 10.1016/j.scitotenv.2019.134014
- [7] **Guangqiu Jin**, Wenhai Yang, Huiyu Xu, Zhongtian Zhang, Saiyu Yuan, Hongwu Tang, Ling Li, David Andrew Barry. Density effects on solute release from streambeds[J]. *Hydrological Processes*,2020,34(5). doi: 10.1002/hyp.13655
- [8] Woei Keong Kuan, Pei Xin, **Guangqiu Jin**, Clare E. Robinson, Badin Gibbes, Ling Li. Combined Effect of Tides and Varying Inland Groundwater Input on Flow and Salinity Distribution in Unconfined Coastal Aquifers[J]. *Water Resources Research*, 2019,55(11). doi: 10.1029/2018WR024492
- [9] **Jin Guangqiu**, Xu Jing, Mo Yuming, Tang, Hongwu, Wei Tong, Wang YouGan, Li Ling. Response of sediments and phosphorus to catchment characteristics and human activities under different rainfall patterns with Bayesian Networks[J]. *Journal of Hydrology*. 2020, 584:124695. doi: 10.1016/j.jhydrol.2020.124695
- [10] Shen Xiaoxiao, **Jin Guangqiu**, Zhao Yongjun, Shao Xiaohou. Prevalence and distribution analysis of antibiotic resistance genes in a large-scale aquaculture environment[J]. *Science of The Total Environment*.2019, 711.
- [11] **Guangqiu Jin**, Yinlin Chen, Hongwu Tang*, Pei Zhang, Ling Li, D. A. Barry. Interplay of hyporheic exchange and fine particle deposition in a riverbed [J]. *Advances in Water Resources*, 2019, 128: 145-157. doi: 10.1002/hyp.13375
- [12] Zhang Pei, S. A. Galindo-Torres, Tang Hongwu, **Jin Guangqiu**, Scheuermann Alexander, Li Ling. Velocity interpolation based Bounce-Back scheme for non-slip boundary condition in Lattice Boltzmann Method[J]. *arXiv: Fluid Dynamics*, 2019.
- [13] **Guangqiu Jin**, Zhongtian Zhang, Hongwu Tang*, Yang Xiaoquan, Ling Li, D. A. Barry. Colloid transport and distribution in the hyporheic zone [J]. *Hydrological Processes*, 2019, 33(6): 932-944. doi: 10.1002/hyp.13375
- [14] **Jin Guangqiu**, Wei Jie, Zhang Xiangyang, Tang Hongwu, Zhang Pei, Xiao Yang, LI Ling. Advances in biogenic elements transport at the interface of stream-streambed and water environmental control in the plain river [J]. *Advances in Water Science (in Chinese)* ,2019,30(03):434-444.
- [15] Na Wang, You-Gan Wang, Shuwen Hu, Zhi-Hua Hu, Jing Xu, Hongwu Tang, **Guangqiu Jin**. Robust Regression with Data-Dependent Regularization Parameters and Autoregressive Temporal Correlations [J]. *Environmental Modeling & Assessment*, 2018, 23(6): 779-786. doi:10.1007/s10666-018-9605-7
- [16] Wang Nairu, Zhang Chenming, Xiao Yang, **Jin Guangqiu**, Li Ling. Transverse hyporheic flow in the cross-section of a compound river system [J]. *Advances in*

Water Resources, 2018. doi: 10.1016/j.advwatres.2018.10.006

- [17] **Guangqiu Jin**, Yuming Mo, Mengdi Li, Hongwu Tang, Yongzheng Qi, Ling Li, D A Barry. Desalinization and Salinization: A Review of Major Challenges for Coastal Reservoirs [J]. *Journal of Coastal Research*, 2019, 35(3): 664-672.
- [18] Liu Zhenyu, Tang Hongwu, Xiao Yang, Yang Gang, Chen Xi, **JIN Guangqiu**, Li Zhiwei, Yuan Saiyu. Variation and pollution evaluation of the total phosphorus and heavy metals in sediments of Huaihe River[J]. *Journal of Hohai University(Natural Sciences) (in Chinese)*. 2018, 46(1):16-22.
- [19] Xu Jing, **Jin Guangqiu***, Tang Hongwu, Zhang Pei, Wang Shen, Wang You-Gan, Li Ling. Assessing temporal variations of Ammonia Nitrogen concentrations and loads in the Huaihe River Basin in relation to policies on pollution source control[J]. *Science of the Total Environment*.2018, 642:1386-1395.
- [20] **Guangqiu Jin**, Qihao Jiang, Hongwu Tang*, Ling Li, D. A. Barry. Density effects on nanoparticle transport in the hyporheic zone [J]. *Advance in Water Resource*, 2018. 121: 406-418. doi:10.1016/j.advwatres.2018.09.004
- [21] Wei Qi, Xu Junzeng*, Li Yawei, Liao Linxian, Liu Boyi, **Jin Guangqiu**, Fazli hameed. Reducing surface wetting proportion of soils irrigated by subsurface drip irrigation can mitigate soil N²O emission [J]. *International Journal of Environmental Research and Public Health*, 2018, 15(12). doi: 10.3390/ijerph15122747
- [22] Wei Qi, Xu Junzeng, Liao Linxian, **Jin Guangqiu**, Li Yawei, Wang Haiyu, Shah Fahad Rahim. Water salinity should be reduced for irrigation to minimize its risk of increased soil N²O emissions [J]. *International Journal of Environmental Research and Public Health*, 2018, 15(10). doi: 10.3390/ijerph15102114
- [23] Wei Q, Xu Junzeng, Yang Shihong, Liao Linxian, **Jin Guangqiu**, Yawei Li, Hameed Fazli. Subsurface watering resulted in reduced soil N₂O and CO₂, emissions and their global warming potentials than surface watering[J]. *Atmospheric Environment*, 2018, 173:248-255. doi:10.1016/j.atmosenv.2017.11.025
- [24] Ronghui Ye, Chenming Zhang, Jun Kong, **Guangqiu Jin**, Hongjun Zhao, Zhiyao Song, Ling Li. A non-negative and high-resolution finite volume method for the depth-integrated solute transport equation using an unstructured triangular mesh [J]. *Environmental Fluid Mechanics*, 2018.18(6): 1379–1411.
- [25] Zhang P, Galindo-Torres SA, Tang H, **Jin G**, Scheuermann A, Li L. An efficient Discrete Element Lattice Boltzmann model for simulation of particle-fluid, particle-particle interactions [J]. *Computers & Fluids*. 2017,147:63-71.
- [26] Zhu Xinli, **Jin Guangqiu**, Jiang Qihao, Wei Jie, Li Ling. Processes of lateral hyporheic exchange and its eco-environment effects[J]. *Advances in Science and*

- Technology of Water Resources (in Chinese)*. 2017, 37(03): 15-21.
- [27] **Jin Guangqiu**, Jiang Qihao, Yang Xiaoquan, Zhuang Shuiying, Li Ling. An In-door Hyporheic Exchange System Design and Its Operation[J]. *Research and Exploration in Laboratory (in Chinese)*. 2016,35(12): 44-50.
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- [31] Zhao Zhongwei, Zhao Jian, Xin Pei, Hua Guofen, **Jin Guangqiu**. Uncertainty and Sensitivity Analyses of the Simulated Seawater-freshwater Mixing Zones in Steady-state Coastal Aquifers [J]. *China Ocean Engineering*, 2015, 29(4): 489-502.
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- [33] **Jin Guangqiu**, Tang Hongwu, Badin Gibbes, Ling Li, D. A. Barry. Prolonged river water pollution due to variable-density flow and solute transport in the riverbed [J]. *Water Resources Research*, 2015, 51:1898–1915, doi:10.1002/2014WR016369.
- [34] **Jin Guangqiu**, Xie Tianyun, Kuan Woeikeong, Shen Chengji, LI Mengdi, Li Ling. Effects of Tide on Salt Intrusion: Experimental Setup and Methods[J]. *Research and Exploration in Laboratory*. 2015, 34(2): 57-61.
- [35] Guo Zhenyi, Chen Yilin, **Jin Guangqiu**. Graph theory in 2014 interdisciplinary contest(ICM). *China Sciencepaper*, 2015, 10(5): 555-563.
- [36] Ye Ronghui, Qian Yan, Kong Jun, Zhang Wenming, **Jin Guangqiu**. Key technologies of real-time flood and storm surge forecasting for Pearl River Delta[J]. *Geomatics and Information Science of Wuhan University*, 2014, 39(7): 782-787.
- [37] Ye Ronghui, Song Zhiyao, Shen Zheng, Kong Jun, Zhang Zhuo, **Jin Guangqiu**. A visualization system for numerical simulation of storm surges in Pearl River Estuary. *Journal of Hohai University (Natural Sciences)*, 2013, 41(3).
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- [39] Miao Cao, Pei Xin, **Guangqiu Jin**, Ling Li. A field study on groundwater dynamics in a salt marsh—Chongming Dongtan wetland. *Ecological Engineering*, 2012, 40(2012): 61-69. doi:10.1016/j.ecoleng.2011.12.018.
- [40] Cao Miao, **Jin Guangqiu**, Yang Xiaoquan. Hydrodynamic modeling of salt marshes [J] 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce, AIMSEC, 2011, 6263-6266.
- [41] **Jin Guangqiu**, Tang Hongwu, Ling Li, D. A. Barry. Hyporheic flow under periodic bedforms influenced by low-density gradients. *Geophysical Research Letters*, 2011, 38: L22401. doi: 10.1029/2011GL049694.
- [42] **Jin Guangqiu**, Tang Hongwu, Badin Gibbes, Ling Li, D. A. Barry. Transport of nonsorbing solutes in a streambed with periodic bedforms. *Advances in Water Resources*, 2010, 33(11): 1402–1416. doi:10.1029/2007WR006366.
- [43] Yang Xiaoquan, **Jin Guangqiu**, Li Ling. Advances in researches on colloid transport in hyporheic zone. *Advances in Science and Technology of Water Resources (in Chinese)*, 2010, 30(6): 78-83.
- [44] Xin Pei, **Jin Guangqiu**, Li Ling, D. A. Barry. Effects of crab burrows on pore water flows in salt marshes. *Advances in Water Resources*, 2009, 32(3): 439-449. doi:10.1016/j.advwatres.2008.12.008.
- [45] Xin Pei, **Jin Guangqiu**, Li Ling, 2009, Modelling of tide-induced pore water flow and solute transport in a salt marsh, *Advances in Water Science (in Chinese)*, 20(3): 379-384.
- [46] Xin Pei, **Jin Guangqiu**, Li Ling, 2009, Observation and analysis of hydrodynamics in the tidal creek: A field study at the Chongming Dongtan wetland, *Advances in Water Science (in Chinese)*, 20(1):74-79.
- [47] **Jin Guangqiu**, Li Ling, 2008, Advancement in the hyporheic exchange in river, *Advances in Water Science (in Chinese)*, 19(2): 285-293.
- [48] Xin Pei, **Jin Guangqiu**, 2009, A simple method for simulating groundwater table fluctuations in salt marshes, *Journal of Hohai University (in Chinese)*, 36(4): 479-482.
- [49] **Jin Guangqiu**, Jin Ju-liang, Wang Lian, 2007, Threshold bilinear time series model of dam security monitoring forecast, *Yangtze River (in Chinese)*, 38 (6): 75-77.
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- [51] **Jin Guangqiu**, Wang Lian, Wang Zong-zhi, Xu Jin, Cao Ming-hong, 2006, Improvement of threshold auto-regressive model based on genetic algorithm and its

application, *Journal of Yangtze River Scientific Research Institute (in Chinese)*, 23 (2): 31-34.

- [52] **Jin Guangqiu**, Wang Lian, Cao Minghong, Zhou Yuliang, 2005, Disturbing accelerating back-propagation algorithm and its application, *Journal of Hefei University of Technology(in Chinese)*, 28(10): 1330-1333.

Conference articles

- [1] Cao Miao, **Jin Guangqiu**, Yang Xiaoquan. Hydrodynamic modeling of salt marshes. 2nd International Conference on Artificial Intelligence, Management Science and Electronic Commerce, AIMSEC, 2010, 6263-6266.
- [2] Xin Pei, **Jin Guangqiu**, Li Ling, 2008, Modelling study on subsurface flows affected by macro-pores in marsh sediments. 16th Congress of Asia and Pacific Division of International Association of Hydraulic Engineering and Research and IAHR International Symposium on Hydraulic Structures, 2 1394-1400.

Conference Presentations

- [1] **Guangqiu Jin**, Yuming Mo, Hongwu Tang, Jing Xu, Ling Li, D. A. Barry. Effects of groundwater on salinization of coastal reservoir. 38th IAHR World Congress, Panama, 1-6 Sep., 2019.
- [2] Yuming Mo, **Guangqiu Jin**, Hongwu Tang, Jing Xu, Ling Li, D. A. Barry. Effects of deep pool on the salinization of coastal reservoir. 38th IAHR World Congress, Panama, 1-6 Sep., 2019.
- [3] **Jin Guangqiu**, Li Mengdi, Mo Yuming, Tang Hongwu, Qi Yongzheng, Li Ling. Water storage in the coastal zone: coastal reservoirs. 1st International Association for Coastal Reservoir Research. University of Wollongong. Jan24-25, 2018
- [4] **Jin Guangqiu**, Mo Yuming, Tang Hongwu, Li Ling, Andrew Barry. Seawater intrusion into coastal reservoirs by tidal flows. 2nd International Association for Coastal Reservoir Research. Hohai University. Apr 21-22, 2018.
- [5] Jing Xu, **Guangqiu Jin**, Hongwu Tang, Ling Li. Analysis of Temporal and Spatial Distributions of Ammonia Nitrogen in the Huaihe River Basin from 1998 to 2014. 2016 AGU Fall Meeting, San Francisco, California, Dec 12-16, 2016
- [6] Yilin Chen, **Guangqiu Jin**, Hongwu Tang, Pei Zhang, Ling Li, Hyporheic exchange in a riverbed affected by fine particle clogging. 2016 AGU Fall Meeting,

San Francisco, California. Dec9-13, 2016

- [7] **Jin Guangqiu**, Tang Hongwu, Li Ling. The effect of variable density on hyporheic exchange. Water resources and water environment forum of young scientists, Jiangsu, Nanjing. Sep 21-22, 2013.
- [8] Shen Chengji, **Jin Guangqiu**, Xin Pei, Li Ling. Density effects on pore-water flow in salt marshes. 2013 AGU Fall Meeting, San Francisco, California. Dec 9-13, 2013.
- [9] Shen Chengji, **Jin Guangqiu**, Xin Pei, Li Ling. Effect of salinity variations on subsurface flow in salt marshes. 2013 EGU Meeting, Vienna, Austria. Apr 7-12, 2013.
- [10] **Jin Guangqiu**, Tang Hongwu, Zhao Zhongwei, Li Ling. Transport and Release of Solute Pulse with Low-density Gradients in A Streambed with Bedforms. 2012 AGU Fall Meeting, San Francisco, California. Dec 3-7, 2012.
- [11] Zhao Zhongwei, **Jin Guangqiu**, Li Ling, Zhao Jian. Sensitivity and Uncertainty Analysis of Saltwater Intrusion in Coastal Aquifers. 2012 AGU Fall Meeting, San Francisco, California. Dec 3-7, 2012.
- [12] **Jin Guangqiu**, Tang Hongwu, Li Ling, Ding Haibo. Hyporheic Exchange Induced by Current-bedform Interactions in Rivers. Water resources and water environment forum of young scientists, Neimenggu, Huhehaote. 2012.08.25-27.
- [13] **Jin Guangqiu**, Tang Hongwu, Li Ling, Ding Haibo. The process of interaction between surface and subsurface water. Academic exchange meeting on both sides of the Taiwan Strait water engineering and water culture theme, Jiangsu, Nanjing. 2012.07.09-12.
- [14] W.K. Kuan, **Guangqiu Jin**, P. Xin, C. Robinson, B. Gibbes and L. Li. Physical and numerical modelling of tidal influence on saltwater intrusion in an unconfined coastal aquifer. EGU General Assembly 2011, Vienna, Austria, 03-08 Apr 2011
- [15] W.K. Kuan, **Guangqiu Jin**, P.Xin, C. Robinson, B. Gibbes and L. Li. Effect of tide-induced recirculation on saltwater intrusion in an unconfined coastal aquifer. 2nd Asia-Pacific Coastal Aquifer Management Meeting, Jeju Island, Korea, October 18-21, 2011.
- [16] W.K. Kuan, **Guangqiu Jin**, P. Xin, C. Robinson, B. Gibbes, and L. Li. Combined influences of tides and seasonal inland groundwater fluctuations on aquifer-ocean exchange in an unconfined coastal aquifer. AGU Fall Meeting 2011, San Francisco, CA, USA, 5-9 December, 2011.

- [1] Zhang Zhongtian, **Jin Guangqiu**, Yang Sheng, Liu Shaohui, Huang Cheng, Yuan Haiyu, Tang Hongwu, Li Ling. The device for the collection of floating and suspended particles in river. 2019.10. No. 201911041473.5
- [2] Zhang Zhongtian, **Jin Guangqiu**, Hu Shuheng, Hao Yongfei, Luo Xinyi, Zhu XiaoMeng, Tang Hongwu, Li Ling. A thermal desalination device and a desalination method. 2019.06. No. 201910476967.X
- [3] Chen Hexiang, **Jin Guangqiu**, Tang Hongwu, Yuan Saiyu, Hao Yongfei, Shao Wenhui, Zhang Xiangyang, Li Ling. The model of an integrated pipeline for transport and grouting and its operation method. 2019.04. No. 201910329002.8
- [4] Zhang Zhongtian, **Jin Guangqiu**, Zhang Huan, Tang Hongwu, Shao Wenhui, Chen Hexiang, Li Ling. A fresh water collecting device for rain and sunshine. 2019.04. No. 201910299401.4
- [5] Hao Yongfei, **Jin Guangqiu**, Zhang Huan, Tang Hongwu, Zhang Xiangyang, Mo Yuming, Shao Wenhui, Chen Hexiang, Li Ling. A device for transporting pollutants at water-sediment interface and its implementation method. 2019.01. No. 201910063619.X
- [6] Mo Yuming, Xu Jing, **Jin Guangqiu**, Tang Hongwu, Hao Yongfei, Zhang Xiangyang, Zhang Huan, A device for the measurement of temperature and pressure . 2019.01. No. 201910004984.3
- [7] Hu Shuheng, **Jin Guangqiu**, Tang Hongwu, Hao Yongfei, Chen Hexiang, Mo YuMing, Li Ling. A parallel automatic feeder and its implementation method. 2019.01. No. 201910001629.0
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