

20 Prof. Menggui Jin



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Education

B.A. Hydrogeology, China University of Geosciences, Wuhan, China, 1982

Ph.D. Hydrogeology and engineering geology, China University of Geosciences, Wuhan, China, 1995

Work Experience

Lecturer, China University of Geosciences, Wuhan, China, 1982-1994

Associate Professor, China University of Geosciences, Wuhan, China, 1994-1998

Professor, China University of Geosciences, Wuhan, China, 1998-present

Research Interests

The hydrological cycle and ecological environment

Saturated - unsaturated groundwater flow and solute transport

Water resources evaluation, planning and management

Groundwater artificial replenishment

Groundwater simulation

Study of soil water and agriculture

Soil and water pollution control

Committee Responsibilities and Professional Activities

Institutions of higher learning in hydrology and water resources engineering teaching guide committee.

China geological society of professional committee of hydrogeology and agricultural geological professional committee.

International hydrological science society (IAHS);

The international association of hydrogeologist (IAH) members.

Major Publications

Liang, X., Liu, Y., Jin, M. G., Lu, X. C., Zhang, R. Q. 2010. Direct observation of complex θ thian groundwater flow systems in the laboratory. Hydrological processes. DOI: 10.1002/hyp.7758

Lu, X. H., Jin, M. G., van Genuchten, M. T., Wang, B. G. 2010. Groundwater Recharge at Five Representative Sites in the Hebei Plain, China. Ground Water. (Published online Jan 20, 2010) doi: 10.1111/j.1745-6584.2009.00667.x.

Han, D. M., Liang, X., Jin, M. G., Currell, M. J., Song, X. F., Liu, C. M. 2010. Evaluation of groundwater hydrochemical characteristics and mixing behavior in the Daying and Qicun

- geothermal systems, Xinzhou Basin. *Journal of Volcanology and Geothermal Research* 189 (2010) 92–104. doi:10.1016/j.jvolgeores.2009.10.011
- Han, D. M., Liang, X., Jin, M. G., Currell, M. J., Han, Y., Song, X. F., 2009. Hydrogeochemical Indicators of Groundwater Flow Systems in the Yangwu River Alluvial Fan, Xinzhou Basin, Shanxi, China. *Environmental Management*. 44(2):243-255. DOI10.1007/s00267-009-9301-0.
- Sun, R. L., Jin, M. G., Giordano, M., Villholth, K. G. 2009. Urban and rural groundwater use in Zhengzhou, China: challenges in joint management. *Hydrogeology Journal*. 17: 1495–1506. DOI10.1007/s10040-009-0452-0.
- Jin, M. G., Luo, W. Y., Liu, Y. F., Sun, R. L. 2009. Modeling of groundwater flow using GMS in Zhengzhou Plain, China. In Wang et al edit. *Calibration and reliability in groundwater modeling “Managing Groundwater and the Environment”*. Proceeding of the 7th International Conference on Calibration and Reliability in Groundwater Modeling. China University of Geosciences Press. 153-156.
- Hao, H. Z., Jin, M. G., Liu, C. W., Li, R. M., Wang, Z. N. 2009. Risk assessment of heavy metal in cultivated soil by Rhizon-SMS and single extraction. *Proceedings of International Workshop on Education Technology and Training/International Workshop on Geoscience and Remote Sensing (ETT and GRS 2008)*, DEC 21-22, 2008, Shanghai, China. Vol. 2: 251-254.
- Hao, H. Z., Jin, M. G., Liu, C. W., Li, R. M., Wang, Z. N., 2009. Seven-step sequential procedure to evaluate Cd and Zn mobility in soil. In Luo Q (ed). *Proceedings of 2009 International Conference on Environmental Science and Information Application Technology*, Wuhan China, July 4-5, 2009. IEEE Computer Society. 70-72.
- Luo, Y. C., Jin, M. G., Han, Q. K., Zhang, S. S., 2009. Integrated assessment of water resources in Zhengzhou, China. *Proceedings of 1st international conference on geological engineering*, October 10-15, 2007, Wuhan, China. ASME Press. 1535-1540.
- Zhang, S. S., Jin, M. G., Chen, G. 2009. Assessment of groundwater quality Zhengzhou, China. *Proceedings of 1st international conference on geological engineering*, October 10-15, 2007, Wuhan, China. ASME Press. 322-327.
- Liu, Y. F., Jin, M. G., Jiang, G. R., 2009. Numerical simulation of groundwater flow in Yanqi Basin, Xinjiang Province, China. In Wang et al eds. *Calibration and reliability in groundwater modeling “Managing Groundwater and the Environment”*. Proceeding of the 7th International Conference on Calibration and Reliability in Groundwater Modeling. China University of Geosciences Press. 167-170.
- Sun, R. L., Liang, X, Jin, M. G., 2009. Heterogeneity and sequential indicator simulation of hydraulic conductivity of the basalt in the dam area of Guandi Hydroelectric Station, China. *Proceeding of the 7th International Conference on Calibration and Reliability in Groundwater Modeling*. China University of Geosciences Press. 279-282.
- Jain, S. K.; Sharma, Bharat R., Zahid, A., Jin, M., Shreshtha, J. L., Kumar, V., Rai, S. P., Hu, J., Luo, Y., Sharma, D. 2009. A comparative analysis of the hydrology of the Indus-Gangetic and Yellow River basins. In Mukherji, Aditi; Villholth, K. G.; Sharma, Bharat R.; Wang, J. (Eds.) *Groundwater governance in the Indo-Gangetic and Yellow River basins: realities and challenges*. London, UK: CRC Press. pp.43-64. (IAH Selected Papers on Hydrogeology 15)
- Wang, B. G., Jin, M. G., Nimmo, J. R., Yang, L., Wang, W. F., 2008. Estimating Groundwater Recharge in Hebei Plain, China under varying land use practices using tritium and bromide

- tracers. *Journal of Hydrology*. 356(1-2): 209-222. DOI 10.1016/j.jhydrol.2008.04.011.
- Yi, C., Wang, B., Jin, M., Guo, Z. 2007. Two-dimensional simulation of underground seepage in a dangerous piping zone of the Jingjiang Great Levee, the middle reach of the Yangtze River. *Quarterly Journal of Engineering Geology and Hydrogeology*, 40(1): 85–92.
- Hao, H. Z., Jin, M. G., Wang, B. G., Li, R. M., Hu, Y. H, Wang, Z. N. 2007. Quality evaluation of shallow groundwater in north central Henan Province. In *Proceeding of the IPACES 6th Annual meeting*. *Journal of China University of Geosciences*, 18(SI): 95-98.
- Lu, X. H., Jin, M. G., 2007. One Dimensional unsaturated flow modeling in Luancheng representative zone of the North China Plain. *Journal of China University of Geosciences*. 18 (SI), June 2007. 59-61.
- Jin, M. G., Liang, X., Cao, Y. L., Zhang, R. Q., 2006. Availability, Status of Development, and Constraints for Sustainable Exploitation of Groundwater in China. In: Sharma, B.R., Willholth, K. G. and Sharma, K.D. (Eds.). *Groundwater Research and Management: Integrating Science into Management Decisions*. Malhotra Publishing House, New Delhi. Colombo, Sri Lanka: IWMI. (GGA Series 1): 47-61.
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- Jin, M. G., Zhang, R. Q., Sun, L. F., Gao, Y. F., 1999. Temporal and spatial soil water management: a case study in the Heilonggang region, PR China. *Agricultural Water Management*. 42: 174-187.
- Cao, Y. L., Jin, M. G., et al. 2003. The statistical Character of Water Quality in Bosten Lake, Northwest China. *Proceedings of the International Symposium on Water Resources and the Urban Environment*. Wuhan, China, November 8-9, 2003. China Environmental Science Press. 146-149.
- Liu, Y. F., Jin, M. G. Real time forecasting of runoff based on EBF-ANN: a case study on Kaidu River in Xinjiang. *Proceedings of the International Symposium on Water Resources and the Urban Environment*. Wuhan, China, November 8-9, 2003. China Environmental Science Press. 412-414.
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Wangtong, Hebei, P.R. China. In: Brahana et al, Gambling with Groundwater: Physical, chemical and biological aspects of aquifer-stream relations Las Vegas, Nevada, USA: 407-412.

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