

# 62 Prof. Wei Xiang



Name: Wei Xiang

Organization: China University of Geosciences, Wuhan, China

E-mail: xiangwei@cug.edu.cn

## Education

B.A. Petroleum Geology, Lanzhou University, Lanzhou, China, 1977

M.A. Petroleum Geology, China University of Geosciences, Wuhan, China, 2002

Ph.D. Petroleum Geology, University of Karlsruhe, Germany, 1997

## Work Experience

Professor, China University of Geosciences, Wuhan, China, 2003-present

## Research Interests

China heavy rains landslide research; 3S technology in geological engineering and the application of soil and water conservation; Theory and practice of soil ion hardening clay

## Research Projects

National Natural Science Fund Project: "earth ion curing mechanism" of the sliding zone soil landslide reinforcement agent;

CSC and the German Academic Exchange Center jointly funded project "China rainstorm landslide study";

China Geological Survey Research Project "in the Enshi region of Hubei landslide mechanism and risk assessment";

Yangtze Water Resources Commission commissioned the research project "the Yangtze River Basin water and soil conservation monitoring";

China Geological Environmental Monitoring Institute commissioned a research project: "west to East Gas Transmission Pipeline Engineering of loess erosion mechanism of long demonstration";

Henan provincial water conservancy project of science and technology of expansive soil and its engineering feasibility study.

## Major Publications

Lu, X., Xiang, W. (2012). A Quantitative Study of Microstructure Characteristics of Ionic Soil Stabilizer Reinforcing Red Clay. *Software Engineering and Knowledge Engineering: Theory and Practice*. Springer Berlin Heidelberg.

Wang, G., Xiang, W., Wang, Y. (2013). Generalized Compute-and-Forward Schemes for Multi-Hop Two-Way Relay Channels. (Vol.14, pp.1-5). IEEE.

Cao, Q., Xiang, W., Jia, H., Wang, F., Qingming, L. I. (2013). Application of cross-hole ultra-density resistivity method to detection of spherically weathered granite. *Journal of Engineering Geology*, 21(5), 730-735.

Chen, Q., Xiang, W., Cui, D. S., Liu, Q. B., Zhang, Q. (2013). Adsorption of nitrogen and water

- vapor by sliding zone soils of huangtupo landslide. *Chinese Journal of Geotechnical Engineering*, 35(4), 691-696.
- Wang, J., Xiang, W., Lu, N. (2014). Landsliding triggered by reservoir operation: a general conceptual model with a case study at three gorges reservoir. *Acta Geotechnica*, 9(5), 771-788.
- Wang, C. J., Li, H. Y., Xiang, W., Zhao, D. (2014). A new signal classification method based on eemd and fcm and its application in bearing fault diagnosis. *Applied Mechanics & Materials*, 602-605(1), 1803-1806.
- Bi, R., Schleier, M., Rohn, J., Ehret, D., Xiang, W. (2014). Landslide susceptibility analysis based on arcgis and artificial neural network for a large catchment in three gorges region, china. *Environmental Earth Sciences*, 72(6), 1925-1938.
- Wang, J., Xiang, W., Wu, Y. (2015). Study on the seepage field and underground erosion of a loess pipeline foundation. *Journal of Pipeline Systems Engineering & Practice*, #.
- Cui, D., Chen, Q., Xiang, W., & Huang, W. (2015). Adsorption and Desorption of Nitrogen and Water Vapor by clay. *EGU General Assembly Conference (Vol.17)*. EGU General Assembly Conference Abstracts.
- Wang, J., Xiang, W., Wang, S. (2015). Study on Morphological Characteristics of Coarse Particles in Sliding Zones of Huangtupo Landslide in Three Gorges Reservoir Area, China. *Recent Advances in Modeling Landslides and Debris Flows*. Springer International Publishing.
- Jia, H., Xiang, W., Krautblatter, M. (2015). Quantifying rock fatigue and decreasing compressive and tensile strength after repeated freeze-thaw cycles. *Permafrost & Periglacial Processes*, 26(4), 368–377.
- Huang, W., Xiang, W., Lang, L., Cui, D. .Study on the surface-physicochemical-property changing of bentonite by adapting a new soil stabilizer.
- Jiang, J. W., Xiang, W., Rohn, J., Zeng, W., Schleier, M. (2015). Research on water–rock (soil) interaction by dynamic tracing method for huangtupo landslide, three gorges reservoir, pr china. *Environmental Earth Sciences*, 74(1), 557-571.
- Luo, J., Rohn, J., Wei, X., Bertermann, D., Blum, P. (2016). A review of ground investigations for ground source heat pump (gshp) systems. *Energy & Buildings*, 117, 160-175.
- Wang, J., Su, A., Xiang, W., Yeh, H. F., Xiong, C., Zou, Z., et al. (2016). New data and interpretations of the shallow and deep deformation of huangtupo no. 1 riverside sliding mass during seasonal rainfall and water level fluctuation. *Landslides*, 1-10.
- Dumperth, C., Rohn, J., Fleer, A., Wei, X. (2016). Local-scale assessment of the displacement pattern of a densely populated landslide, utilizing finite element software and terrestrial radar interferometry: a case study on huangtupo landslide (p.r. china). *Environmental Earth Sciences*, 75(10), 1-9.