

刘伟平

教授，博士，博士生导师，工程建设学院土木工程系系主任，南昌大学岩土工程研究所所长。主要从事隧道与地下工程支护，边坡灾害与控制，特殊土工程特性，微生物岩土工程的研究。主持建设江西省线下一流课程《土力学》、江西省高校育人共享计划课程《土力学》、江西省研究生优质课程《高等土力学》。



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教育经历:

- (1) 1998-09 至 2002-06, 南昌大学, 建筑工程学院, 学士
- (2) 2002-09 至 2005-01, 南昌大学, 建筑工程学院, 硕士
- (3) 2007-09 至 2010-06, 南昌大学, 建筑工程学院, 博士

科研与学术工作经历:

- (1) 2005-07 至 2007-11, 南昌大学, 建筑工程学院, 助教
- (2) 2007-12 至 2012-11, 南昌大学, 建筑工程学院, 讲师
- (3) 2016-02 至 2017-02, 澳大利亚纽卡斯尔大学, 卓越岩土工程中心, 无
- (4) 2012-12 至 2020-12, 南昌大学, 建筑工程学院, 副教授
- (5) 2020-12 至今, 南昌大学, 工程建设学院, 教授

代表性科研项目/课题 (限 5 项):

- (1) 国家自然科学基金项目(41962015), 花岗岩残积土裂隙优先流特征及其对崩岗侵蚀的影响机制, 2020-01-01 至 2023-12-31, 主持。
- (2) 国家自然科学基金项目(51468041), 赣南地区崩岗侵蚀的岩土特性及其成因机理研究, 2015-01-01 至 2018-12-31, 主持。
- (3) 崩岗侵蚀的水土相互作用机理研究, 江西省自然科学基金(20161BAB203078), 2016-01-01 至 2018-12-31, 主持。
- (4) 江西省重大科研专项计划(20124ABE02106), 页岩气开采过程中水力压裂技术选取的试验探索, 2013-01-01 至 2014-12-31, 主持。
- (5) 周边复杂环境下地下连接通道综合施工技术研究, 横向项目, 2012-01-01 至 2024-12-31, 主持。

代表性科研成果 (限 10 项):

- (1) **Weiping Liu**, Yunwei Cui, Guoquan Ouyang, Zhitao Lyu. An experimental study on influence of grain-size composition on collapsing erosion of granite residual soil. *Catena*, 2023, 223, 106949. (SCI, 中科院一区, TOP 期刊).
- (2) **Weiping Liu**, Shaofeng Wan, Mingfu Fu. Limit support pressure on tunnel face at different construction line slopes by slip line method. *Tunnelling and Underground Space Technology*, 2020, 106, 103619. (SCI, 中科院一区, TOP 期刊).
- (3) Faming Huang, Jiawu Chen, **Weiping Liu** (通讯作者), Jinsong Huang, Haoyuan Hong, Wei Chen. Regional rainfall-induced landslide hazard warning based on landslide susceptibility mapping and a critical rainfall threshold. *Geomorphology*, 2022, 408, 108236. (SCI, 中科院二区, TOP 期刊).

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(4) **Weiping Liu**, Xiaoyan Luo, Faming Huang, Mingfu Fu. Prediction of soil water retention curve using Bayesian updating from limited measurement data. *Applied Mathematical Modelling*, 2019, 76, 380-395. (SCI, 中科院一区, TOP 期刊).

(5) **Weiping Liu**, Guoquan Ouyang, Xiaoyan Luo, Jia Luo, Lina Hu, Mingfu Fu. Moisture content, pore-water pressure and wetting front in granite residual soil during collapsing erosion with varying slope angle. *Geomorphology*, 2020, 362, 107210. (SCI, 中科院二区, TOP 期刊).

(6) **Weiping Liu**, Xinqiang Song, Jia Luo, Lina Hu. The processes and mechanisms of collapsing erosion for granite residual soil in southern China. *Journal of Soils and Sediments*, 2020, 20, 992-1002. (SCI, 中科院二区).

(7) **Weiping Liu**, Tianqi Wu, Shuhan Wang, Xingchen He & Zhitao Lv. Experimental and numerical study on water and sand leakage of foundation pit in water-rich sandy soil with different grain size distribution. *European Journal of Environmental and Civil Engineering*, 2023, 10.1080.(SCI)

(8) **Weiping Liu**, Shaofeng Wan, Faming Huang, Xiaoyan Luo, Mingfu Fu. Experimental study of subsurface erosion in granitic under the conditions of different soil column angles and flow discharges. *Bulletin of Engineering Geology and the Environment*, 2019, 78(8):5877-5888. (SCI).

(9) **Weiping Liu**, Xinqiang Song, Faming Huang, Lina Hu. Experimental study on the disintegration of granite residual soil under the combined influence of wetting-drying cycles and acid rain. *Geomatics, Natural Hazards and Risk*, 2019, 10(1): 1912-1927. (SCI).

(10) Faming Huang, Chi Yao, Weiping Liu(通讯作者), Yijing Li, Xiaowen Liu. Landslide susceptibility assessment in the Nantian area of China: a comparison of frequency ratio model and support vector machine. *Geomatics, Natural Hazards and Risk*, 2018, 9(1): 919-938. (SCI).

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