

岩土力学与堤坝工程教育部重点实验室 2013 年度考核报告

1.概况

2013 年, 实验室完成本科土力学实验教学, 共 59 个班级 1982 人; 培养硕士毕业 277 人、博士研究生毕业 16 人, 招收博士研究生 33 名, 招收硕士研究生 267 名。获得国家自然科学基金 11 项, 科研经费总共 4161 万元, SCI 论文 45 篇、EI 论文 115 篇, 申请专利 69 项, 授权专利 70 项。省部级以上奖励 10 项, 举办国内学术会议 2 次, 参加国内外学术会议 37 人次, 邀请国内外专家学术报告 10 人次。

2.实验室与人才队伍建设

新引进教师 1 人。

3.教学

3.1 本科实验教学

完成本科土力学实验教学, 共 35 个班级 1234 人, 专业包括土木工程 (7 个班)、力学 (3 个班)、水工 (6 个班)、农水 (6 个班)、港航 (6 个班)、大禹班 (5 个班)、交通工程 (2 个班) 等。

实验内容包括颗粒分析试验、渗透试验、压缩试验、直剪试验、三轴试验等。

3.2 研究生培养

2013 年, 共招收博士研究生 33 名, 招收硕士研究生 267 名。培养硕士毕业 277 人、博士研究生毕业 16 人。

4.科研成果

4.1 论文 (SCI)、论著

- [1] Zhou, M.; Hossain, M. S.; Hu, Y.; Liu, H. Behaviour of ball penetrometer in uniform single- and double-layer clays, *Geotechnique*[J].2013,63(8):682~694.(SCI)
- [2] Xiao, Yang; Liu Hanlong. Measuring and Modeling Proportion-Dependent Stress-Strain Behavior of EPS-Sand Mixture, *International Journal and Geomechanics*[J].2013,13(6):900~900.(SCI)
- [3] Pham-Ngoc Thach; Liu, Han-Long; Kong, Gang-Qiang. Evaluation of PCC Pile Method in Mitigating Embankment Vibrations from a High-Speed Train, *Journal and Geotechnical and Geoenvironmental Engineering*[J].2013,139(12):2225~2228.(SCI)
- [4] Chen, Xu-Guang; Zhang, Qiang-Yong; Wang, Yuan; Li, Shu-Cai; Wang, Han-Peng. In Situ Observation and Model Test on Zonal Disintegration in Deep Tunnels, *Journal and Testing and Evaluation*[J].2013,41(6):990~1000.(SCI)
- [5] Wang, Y.; Li, J. H.; Zhang, L. M.; Li, X.; Cai, C. Z. Measuring Water Retention Curves for Rough Joints with Random Apertures, *Geotechnical Testing Journal*[J].2013,36(6):929~938.(SCI)
- [6] Peng Jie; Xiong Xiong; Mahfouz, A. H.; Song En-run. Vacuum preloading combined electroosmotic strengthening of ultra-soft soil, *Journal and Central South University*[J].2013,20(11):3282~3295.(SCI)

- [7] Jiang, T.; Shao, J. F.; Xu, W. Y. A non-uniform transformation field analysis for frictional cohesive geomaterials, *European Journal and Mechanics A-Solids*[J].2013,42:97~111.(SCI)
- [8] Chen, Hongjie; Xu, Weiya; Wang, Wei; Wang, Rubin; Shi, Chong. A NONLINEAR VISCOELASTIC-PLASTIC RHEOLOGICAL MODEL FOR ROCKS BASED ON FRACTIONAL DERIVATIVE THEORY, *International Journal and Modern Physics B*[J].2013,27(25):-.(SCI)
- [9] Xiao, Yang; Liu Hanlong. Formulation of Cross-Anisotropic Failure Criterion for Granular Material (vol 12, pg 182, 2012), *International Journal and Geomechanics*[J].2013,13(5):698~698.(SCI)
- [10] Xiao, Yang; Liu Hanlong. State Pressure Index for Modeling Sand Behavior, *Journal and Geotechnical and Geoenvironmental Engineering*[J].2013,139(10):1847~1847.(SCI)
- [11] Ruan, Xiao-bo; Sun, Shu-lin; Liu, Wen-liang. Effect of the amplification factor on seismic stability of expanded municipal solid waste landfills using the pseudo-dynamic method, *Journal and Zhejiang University-Science A*[J].2013,14(10):731~738.(SCI)
- [12] Zhou, Yadong; Deng, An; Wang, Can. Finite-difference model for one-dimensional electro-osmotic consolidation, *Computers and Geotechnics*[J].2013,54:152~165.(SCI)
- [13] Wang, Yuan; Rutqvist, Jonny. Non-uniqueness of Beltrami-Schaefer Stress Functions, *Journal and Elasticity*[J].2013,113(2):283~288.(SCI)
- [14] Kong, Gangqiang; Peng, Huaifeng; Liu, Hanlong; Ding, Xuanming; Yang, Gang. Performances on Environment Effect of Energy Pile under Heat Exchange, *Research Journal and Chemistry and Environment*[J].2013,17:180~186.(SCI)
- [15] Gao, Yufeng; Wu, Yongxin; Li, Dayong; Cai, Yuanqiang; Liu, Hanlong; Zhang, Ning. Error Assessment for the Coherency Matrix-Based Spectral Representation Method in Multivariate Random Processes Simulation, *Journal and Engineering Mechanics*[J].2013,139(9):1294~1299.(SCI)
- [16] Wu Yongxin; Gao Yufeng; Li Dayong; Xu Changjie; Mahfouz, Ali H. Approximation approach to the SRM based on root decomposition in the simulation of spatially varying ground motions, *Earthquake Engineering and Engineering Vibration*[J].2013,12(3):363~372.(SCI)
- [17] Ruan Xiao-bo; Sun Shu-lin. Seismic stability of reinforced soil walls under bearing capacity failure by pseudo-dynamic method, *Journal and Central South University*[J].2013,20(9):2593~2598.(SCI)
- [18] Chen Xuguang; Wang Yuan. Energy Dissipation and Release during Rock Burst, *Disaster Advances*[J]. 2013,6(9):48~54.(SCI)
- [19] Liu, Zaobao; Shao, Jianfu; Xu, Weiya; Meng, Yongdong. Prediction of rock burst classification using the technique of cloud models with attribution weight, *Natural Hazards*[J].2013,68(2):549~568.(SCI)
- [20] Li Guo-wei; Ni Chun; Pei Hua-fu; Ge Wan-ming; Ng, Charles Wang Wai. Stress relaxation of grouted entirely large diameter B-GFRP soil nail, *China Ocean Engineering*[J].2013,27(4):495~508.(SCI)
- [21] Huang, Y.; Shao, J. F. A micromechanical analysis of time-dependent behavior based on subcritical damage in claystones, *International Journal and Damage Mechanics*[J].2013,22(6):773~790.(SCI)
- [22] Wang Yuan; Liu Yang. Impact of capillary pressure on permeability impairment during CO₂ injection into deep saline aquifers, *Journal and Central South University*[J].2013,20(8):2293~2298.(SCI)
- [23] Ding Xuan-ming; Liu Han-long; Yu Tao; Kong Gang-qiang. Nonlinear finite element analysis of effect of seismic waves on dynamic response of Shiziping dam, *Journal and Central South University*[J].2013,20(8):2323~2332.(SCI)
- [24] Ruan, Xiaobo; Cheng, Qiangqiang; Sun, Shulin. Active seismic pressure against retaining wall backfilled with cohesive soils, *Soil Mechanics and Foundation Engineering*[J].2013,50(3):116~122.(SCI)

- [25] Shen Yang; Zhang Peng-ju; Xu Guo-jian; Liu Han-long. Dynamic strength characteristics and failure criteria of anisotropically consolidated silt under principal stress rotation, *Journal and Central South University*[J].2013,20(7):2025~2033.(SCI)
- [26] Wang, Yuan; Feng, Di; Ng, Charles W. W. Modeling the 3D crack network and anisotropic permeability of saturated cracked soil, *Computers and Geotechnics*[J].2013,52:63~70.(SCI)
- [27] Ding, Xuanming; Wang, Anhui; Liu, Hanlong; Wu, Yuedong; Kong, Gangqiang. Disaster controlling technology for soft ground deformation of existing highway, *Disaster Advances*[J].2013,6:170~175.(SCI)
- [28] Zhuang, Yan; Wang, Kangyu. Application of microorganisms in riverbank protection to prevent flood disaster, *Disaster Advances*[J].2013,6:226~232.(SCI)
- [29] Sun, H. S.; Lei, G. H.; Ng, C. W. W.; Zheng, Q. Displacements under linearly distributed pressures by extended Mindlin's equations, *Computers and Geotechnics*[J].2013,50:143~149.(SCI)
- [30] Gao, Yufeng; Zhang, Ning. Scattering of cylindrical SH waves induced by a symmetrical V-shaped canyon: near-source topographic effects, *Geophysical Journal International*[J].2013,193(2):874~885.(SCI)
- [31] Gao, Y. F.; Zhang, F.; Lei, G. H.; Li, D. Y. An extended limit analysis of three-dimensional slope stability, *Geotechnique*[J].2013,63(6):518~524.(SCI)
- [32] Shi Chong; Wang Sheng-nian; Liu Lin; Meng Qing-xiang; Zhang Qiang. Mesomechanical simulation of direct shear test on outwash deposits with granular discrete element method, *Journal and Central South University*[J].2013,20(4):1094~1102.(SCI)
- [33] Dallo, Yousif A. H.; Wang, Yuan; Ahmed, Omer Y. Assessment of the internal stability of granular soils against suffusion, *European Journal and Environmental and Civil Engineering*[J].2013,17(4):219~230.(SCI)
- [34] Liu, Han-Long; Kong, Gang-Qiang; Ding, Xuan-Ming; Chen, Yu-Min. Performances of Large-Diameter Cast-in-Place Concrete Pipe Piles and Pile Groups under Lateral Loads, *Journal and Performance and Constructed Facilities*[J].2013,27(2):191~202.(SCI)
- [35] Wu YongXin; Gao YuFeng; Li DaYong; Xu ChangJie; Mahfouz, Ali Hasson. Study of the approximate approaches to the POD based spectral representation method, *Science China-Technological Sciences*[J].2013,56(4):970~979.(SCI)
- [36] Wu, Y. D.; Liu, J.; Ng, Charles W. W. Effects of pile extraction and refilling with cement slurry on ground settlements, *Canadian Geotechnical Journal*[J].2013,50(3):343~349.(SCI)
- [37] Ding, Xuanming; Kong, Gangqiang; Liu, Hanlong; Zuo, Weilong. Numerical Analysis on Seismic Response of Shiziping Earth-rockfill Dam, *Disaster Advances*[J].2013,6:94~101.(SCI)
- [38] Kong, Gangqiang; Zhou, Hang; Ding, Xuanming; Yang, Qing. Comparative Study on Landslide Disaster Treatment Effect by Using XCC Pile and Traditional Circular Pile, *Disaster Advances*[J].2013,6:151~155.(SCI)
- [39] Kong, Gangqiang; Ding, Xuanming; Yang, Qing; Deng, Zongwei. Comparative Analysis on Landslide Disaster Treated by Using PCC Pile and Drilled Shaft under Lateral Load, *Disaster Advances*[J].2013,6:438~443.(SCI)
- [40] Zheng, Changjie; Liu, Hanlong; Ding, Xuanming; Fu, Qiang. Horizontal Vibration of a Large-Diameter Pipe Pile in Viscoelastic Soil, *Mathematical Problems In Engineering*[J].2013,(4):1~13.(SCI)
- [41] Li Guo-wei; Pei Hua-Fu; Hong Cheng-yu. Study on the Stress Relaxation Behavior of Large Diameter B-GFRP Bars Using FBG Sensing Technology, *International Journal and Distributed Sensor Networks*[J].2013,(13):1~13.(SCI)

- [42] Chen, Xu-Guang; Zhang, Qiang-Yong; Wang, Yuan; Liu, De-Jun; Zhang, Ning. Model Test of Anchoring Effect on Zonal Disintegration in Deep Surrounding Rock Masses, *Scientific World Journal*[J].2013,(1):-935148.(SCI)
- [43] Cui, Meng; Fang, Qingjun; Hong, Baoning; Liu, Xin. The application of a meso-structural test system under continuous load in ecological soil, *Journal and Food Agriculture & Environment*[J].2013,11(2):1143~1149.(SCI)
- [44] Liu, Shun-qing; Hong, Bao-ning; Cheng, Tao; Liu, Xin. Models to predict the elastic parameters of soil-rock mixture, *Journal and Food Agriculture & Environment*[J].2013,11(2):1272~1276.(SCI)
- [45] Zou, Lifang; Tarasov, Boris G.; Dyskin, Arcady V.; Adhikary, Deepak P.; Pasternak, Elena; Xu, Weiya. Physical Modelling of Stress-dependent Permeability in Fractured Rocks, *Rock Mechanics and Rock Engineering*[J].2013,46(1):67~81.(SCI)
- [46] Dong, Hai-Zhou; Kou, Ding-Wen; Peng, Hu-Yue. Computational model for dam leakage velocity in concentrated passage based on distributed optic fiber temperature sensing system, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(9):1717-1721.(EI)
- [47] Wang, Ruicai; Shi, Jianyong; Zhu, Ning. Research on soil deformation due to pile jacking in saturated soil, *Applied Mechanics and Materials*[J].2013,256-259(1):445-449.(EI)
- [48] Wang, Rui Cai; Shi, Jian Yong; Chen, Sheng ; Chen, Hua Jie. Experimental study on the time effect of the jacked pile, *Applied Mechanics and Materials*[J].2013,353-354:125-129.(EI)
- [49] Cao, Y.J.; Wang, J.; Liu, T.G.; Zheng, Z. .Experimental study on creep behavior of sandstone with pore water pressure and its constitutive modeling, *Rock Characterisation, Modelling and Engineering Design Methods - Proceedings of the 3rd ISRM SINOROCK 2013 Symposium*[J].2013,69(4): 2737-2739.(EI)
- [50] Yang Xiao, S.M. .Erratum for "Measuring and modeling proportion-Dependent stress-Strain behavior of EPS-Sand mixture" ,*International Journal of Geomechanics*[J].2013,13(6):900-900.(EI)
- [51] Shi, Jian-Yong; Luan, Jin-Long .Stability analysis method for composite failure through base liner and waste filling, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(9):2576-2582+2588.(EI)
- [52] Wang, Yuan; Ni, Xiaodong .Hydro-mechanical analysis of piping erosion based on similarity criterion at micro-level by PFC, *European Journal of Environmental and Civil Engineering*[J].2013,17(s1):187-204.(EI)
- [53] Gao, Yufeng; Wu, Yongxin; Li, Dayong ; Cai, Yuanqiang ; Liu, Hanlong; Zhang, Ning . Error assessment for the coherency matrix-based spectral representation method in multivariate random processes simulation, *Journal of Engineering Mechanics*[J].2013,139(9):1294-1299.(EI)
- [54] Wu, Yongxin; Gao, Yufeng; Li, Dayong; Xu, Changjie; Mahfouz, Ali H. Approximation approach to the SRM based on root decomposition in the simulation of spatially varying ground motions, *Earthquake Engineering and Engineering Vibration*[J].2013,12(3):363-372.(EI)
- [55] Shen, Yang; Zhang, Peng-Ju; Xu, Guo-Jian; Liu, Han-Long. Dynamic strength characteristics and failure criteria of anisotropically consolidated silt under principal stress rotation, *Journal of Central South University*[J].2013,20(7):2025-2033.(EI)
- [56] Kong, Gang-Qiang; Liu, Lu; Liu, Han-Long; Zhou, Hang. Triaxial tests on deformation characteristics of transparent glass sand, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(6):1140-1146.(EI)
- [57] Bian, Jia-Min; Jiang, Ling ; Wang, Bao-Tian. Experiment on the strength of lime-treated expansive soil, *Chang'an Daxue Xuebao (Ziran Kexue Ban)/Journal of Chang'an University (Natural Science Edition)*[J].2013,33(2):38-43.(EI)

- [58] Zhu, Jun-Gao;Alsakran, Mohamed A.;Gong, Xuan;Xuan, Xiang-Yang;Ji, En-Yue. Triaxial tests on wetting deformation behavior of a slate rockfill material, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(1):170-174.(EI)
- [59] Lei, Guo-Hui;Xu, Bo;Zhang, Xu-Dong. Equal volumetric strain solutions for radial and vertical consolidation with vertical drains under surcharge preloading, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(1):76-84.(EI)
- [60] Sun, Yi-Fei;Liu, Han-Long;Yang, Gui;Xiao, Yang. Formulation of cross-anisotropic failure criterion for soils, *Water Science and Engineering*[J].2013,6(4):456-468.(EI)
- [61] Wang, Yuan;Feng, Di;Chen, Shang-Xing ; Wu, Hao-Chen .Estimation of cracked soil's representative elementary volume based on fractal dimension, *Yantu Lixue/Rock and Soil Mechanics*[J]. 2013, 34(10):2774-2780.(EI)
- [62] Guo, Shuai-Jie;Wang, Bao-Tian;Zhang, Fu-Hai .Numerical model for nonlinear large strain consolidation of deposited sediment, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(10):3003-3010.(EI)
- [63] Xu, W.Y.;Zhang, Q.;Zhang, J.C.;Wang, R.B.;Wang, R.K. (3) .Deformation and control engineering related to huge landslide on left bank of Xiluodu reservoir, south-west China, *European Journal of Environmental and Civil Engineering*[J].2013,17(S1):S249-S268.(EI)
- [64] Zhuang, Y.;Wang, K.Y. ; Liu, H.L.;Chu, J.The contribution of the subsoil in a reinforced piled embankment, *European Journal of Environmental and Civil Engineering*[J].2013,18(S2):s269-s281.(EI)
- [65] Yu, Huazhong;Ruan, Huaining;Chu, Weijiang .Particle flow code modeling of shear behavior of rock joints, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(7):1482-1490.(EI)
- [66] Chiu, A.C.F.;Hu, X.P.;Ng, C.W.W.;Lei, G.H. .Water retention and shrinkage properties of a cemented dredged material, *Coupled Phenomena in Environmental Geotechnics: From Theoretical and Experimental Research to Practical Applications - Proceedings of the International Symposium, ISSMGE TC 215*[J].2013:371-376.(EI)
- [67] Wang, Du-Bo;Liu, Han-Long;Yu, Tao;Yang, Gui. Seismic fragility analysis for earth-rockfill dams based on deformation, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(5):814-819.(EI)
- [68] Shi, Jian-Yong;Qian, Xue-De;Zhu, Bao-Kun . Development and tests of large-scale inclined direct shear apparatus, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(4):754-761.(EI)
- [69] Lyu, Ya-Ru;Liu, Han-Long;Wang, Xin-Quan ; Ding, Xuan-Ming;Zheng, Chang-Jie .A modified Geddes solution for estimating induced stress coefficient of subsoil and settlement of pile foundation, *Sichuan Daxue Xuebao (Gongcheng Kexue Ban)/Journal of Sichuan University (Engineering Science Edition)*[J].2013,45(2):68-74.(EI)
- [70] Lu, Yaru;Liu, Hanlong;Wang, Xinquan ; Ng, Wang-Wai Charles ; Ding, Xuanming .A modified Geddes's solution for foundation additional stress induced by X-section pile, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(2):349-362.(EI)
- [71] Chen, Yong-Hui;Chen, Long;Xu, Kai ; Liu, Lin;Ng, Charles W.W. .Study on critical buckling load calculation method of piles considering passive and active earth pressure, *Structural Engineering and Mechanics*[J].2013,48(3):367-382.(EI)

- [72] Wang, Yuan;Rutqvist, Jonny. Operator matrix and non-uniqueness of Beltrami-Schaefer stress functions, *Acta Mechanica*[J].2013,225(6):1761-1768.(EI)
- [73] Xuguang, Chen;Wei, Xu;Yu, Mei . The mechanism of geo-hazards and its geotechnical management in scenic area-taking laoshan as an example, *Electronic Journal of Geotechnical Engineering*[J].2013, 18:3451-3460.(EI)
- [74] Wang, R.B.;Xu, W.Y.;Wang, W.;Zhang, J.C. .A nonlinear creep damage model for brittle rocks based on time-dependent damage,*European Journal of Environmental and Civil Engineering*[J].2013,17(s1):1-13.(EI)
- [75] Peng, Jie;Ji, Wen Guang;Li, Neng;Jin, Hao Ran .The pore water pressure and settlement characteristics of soil improved by combined vacuum and surcharge preloading, *Electronic Journal of Geotechnical Engineering*[J].2013,18:1559-1580.(EI)
- [76] Li, Guo-wei;Ni, Chun;Pei, Hua-fu ; Ge, Wan-ming;Ng, Charles Wang Wai .Stress relaxation of grouted entirely large diameter B-GFRP soil nail, *China Ocean Engineering*[J].2013,27(4):495-508.(EI)
- [77] Zhou, Yadong;Deng, An ; Wang, Can. Finite-difference model for one-dimensional electro-osmotic consolidation, *Computers and Geotechnics*[J].2013,54:152-165.(EI)
- [78] Shen, Yang;Ge, Dong-Dong;Xu, Hai-Dong ; Zhang, Chao-Bo. Mathematical and physical significances and applicability of tangent and secant strength indices of total stress of consolidated undrained triaxial tests based on Coulomb's law, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(SUPPL.1):44-51.(EI)
- [79] Wu, Y.D.;Liu, J.;Ng, Charles W.W. Effects of pile extraction and refilling with cement slurry on ground settlements, *Canadian Geotechnical Journal*[J].2013,50(3):343-349.(EI)
- [80] Liu, Han-Long .Technological innovation methods and practices in geotechnical engineering, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(1):34-58.(EI)
- [81] Xuguang, Chen;Wei, Xu ; Qingchang, Qiu .Combinative application of TST and MALA-GPR in the A-FU Tunnel,*Electronic Journal of Geotechnical Engineering*[J].2013,18 P:3461-3472.(EI)
- [82] Ruan, Xiao-Bo;Sun, Shu-Lin ; Liu, Wen-Liang. Effect of the amplification factor on seismic stability of expanded municipal solid waste landfills using the pseudo-dynamic method, *Journal of Zhejiang University: Science A*[J].2013,14(10):731-738.(EI)
- [83] Wang, Yuan;Rutqvist, Jonny .Non-uniqueness of beltrami-schaefer stress functions,*Journal of Elasticity*[J].2013,113(2):283-288.(EI)
- [84] Chen, Xu-Guang;Wang, Yuan;Zhang, Qiang-Yong ; Li, Shu-Cai ; Nordlund, Erling .Analogical model test and theoretical analysis on zonal disintegration based on filed monitoring in deep tunnel, *European Journal of Environmental and Civil Engineering*[J].2013:.(EI)
- [85] Shi, Chong;Chen, Kai Hua;Wang, Sheng Nian;Wang, Hai Li .Research on microstructure statistical model of soil-rock mixture,*Applied Mechanics and Materials*[J].2013,353-354:28-33.(EI)
- [86] Zheng, Chang-Jie;Ding, Xuan-Ming;Liu, Han-Long; Lv, Ya-Ru .Analytic method of torsional vibration response of cast-in-place concrete large-diameter pipe pile in viscoelastic soil, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(7):1943-1950.(EI)
- [87] Li, Guowei;Dai, Jian ; Ni, Chun ; Yin, Jianhua; Yu, Liang .Bond behavior between concrete frame beam and large-diameter glass fiber reinforced polymer(GFRP) anchor rod with built-in fiber Bragg grating sensor, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(7):1449-1457.(EI)

- [88] Li, Guo-Wei;Bian, Sheng-Chuan ; Lu, Xiao-Cen ; Yang, Tao ; Lei, Guo-Hui .Field test on extruding soil caused of PHC pipe pile driving by static pressure for improving soft foundation of widened embankment, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(4):1089-1096.(EI)
- [89] Wang, Dongxing;Xu, Weiya .Experimental study on long-term strength and deformation properties of solidified sediments, *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*[J].2013,44(1):332-339.(EI)
- [90] Shi, Chong;Wang, Shengnian;Liu, Lin .Research of avalanche disaster numerical simulation based on granular discrete element method of high-steep slope under seismic loads, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(SUPPL.1):2798-2805.(EI)
- [91] Chen, Jian-Sheng;He, Wen-Zheng;Wang, Shuang;He, Hai-Qing .Laboratory tests on development of seepage failure of overlying layer during piping of two-stratum dike foundation, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(10):1777-1783.(EI)
- [92] Gao, Bin;Chen, Jiansheng;Chen, Liang;Ji, Chunbo .Study of model of slug tests performed in wells when wells screened across water table, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(SUPPL.2):3036-3041.(EI)
- [93] Baotian, Wang;Shuaijie, Guo;Fuhai, Zhang .Research on deposition and consolidation behaviour of cohesive sediment with settlement column experiment, *European Journal of Environmental and Civil Engineering*[J].2013:.(EI)
- [94] Kong, Gang Qiang;Yang, Qing ; Liu, Han Long;Liang, Robert Y. (3) .Numerical study of a new belled wedge pile type under different loading modes, *European Journal of Environmental and Civil Engineering*[J].2013:.(EI)
- [95] Liu, Zaobao;Shao, Jianfu;Xu, Weiya;Xu, Fei (3) .Comprehensive Stability Evaluation of Rock Slope Using the Cloud Model-Based Approach, *Rock Mechanics and Rock Engineering*[J].2013:41288.(EI)
- [96] Ruan, Xiao-Bo;Sun, Shu-Lin ; Liu, Wen-Liang (3) .Seismic stability of anchored rock slope using pseudo-dynamic method, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(SUPPL1):293-300.(EI)
- [97] Zhang, Kunyong;Wen, Debao;Ma, Qihao .Three-dimensional anisotropic revision and experimental verification of elliptic parabolic double yield surface elastoplastic model, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(8):1692-1700.(EI)
- [98] Ruan, Xiao-Bo;Sun, Shu-Lin .Seismic stability of reinforced soil walls under bearing capacity failure by pseudo-dynamic method, *Journal of Central South University*[J].2013,20(9):2593-2598.(EI)
- [99] Dallo, Yousif A. H.;Wang, Yuan;Ahmed, Omer Y. .Assessment of the internal stability of granular soils against suffusion, *European Journal of Environmental and Civil Engineering*[J].2013,17(4):219-230.(EI)
- [100] Kong, Gang-Qiang;Chen, Li-Kai;Liu, Han-Long .Study on negative skin friction of pile in composite foundation considering nonlinear consolidation of soil, *Zhongguo Gonglu Xuebao/China Journal of Highway and Transport*[J].2013,26(3):37-43.(EI)
- [101] Yu, Huazhong;Ruan, Huaining;Chu, Weijiang. Mesoscopic simulation study of brittle-ductile-plastic transition character of marble, *Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering*[J].2013,32(1):55-64.(EI)
- [102] Zhu, Qi-Zhi;Shao, Jian-Fu .A multiscale anisotropic poroplasticity damage model for cracked solids, *Poromechanics V - Proceedings of the 5th Biot Conference on Poromechanics*[J].2013:1410-1414.(EI)
- [103] Tao, Ming-An;Shen, Yang;Wang, Xin;Dai, Bo. Ability analysis of HCA to imitate stress path of soil caused by train load, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(11):3166-3172.(EI)

- [104] Shi, Chong;Zhang, Yu-Long;Xu, Wei-Ya;Zhu, Qi-Zhi;Wang, Sheng-Nian .Risk analysis of building damage induced by landslide impact disaster, *European Journal of Environmental and Civil Engineering*[J].2013: .(EI)
- [105] Gao, Yufeng;Qiu, Yue;Li, Bing ; Li, Dayong ; Sha, Chengming;Zheng, Xiang .Experimental studies on the anti-uplift behavior of the suction caissons in sand, *Applied Ocean Research*[J].2013,43:37-45.(EI)
- [106] Liu, Ping;Liu, Hanlong;Yang, Gui. Cyclic simple-shear tests on mechanical behavior of interface between granular material and gravel-clay, *Tumu Gongcheng Xuebao/China Civil Engineering Journal*[J].2013,46(9):98-103.(EI)
- [107] Wang, R.B.:Xu, W.Y. .Coupling relation between damage-induced permeability evolution and accelerated creep deformation of volcanic breccias, *Rock Characterisation, Modelling and Engineering Design Methods - Proceedings of the 3rd ISRM SINOROCK 2013 Symposium*[J].2013:109-114.(EI)
- [108] Ding, Xuan-Ming;Liu, Han-Long .Time-domain analytical solution of the vibration response of a large-diameter pipe pile subjected to transient concentrated load, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(6):1010-1017.(EI)
- [109] Wang, Yuan;Feng, Di;Ng, Charles W.W. .Modeling the 3D crack network and anisotropic permeability of saturated cracked soil, *Computers and Geotechnics*[J].2013,52:63-70.(EI)
- [110] Liu, Shi-Peng;Shi, Jian-Yong;Lei, Guo-Hui;Lin, Hai .Elastoplastic analysis of cylindrical cavity expansion in Ko consolidated saturated soils,*Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(2):389-394+403.(EI)
- [111] Li, Guo-Wei;Ni, Chun ; Ge, Wan-Ming ; Dai, Jian .Anchoring method for stress relaxation specimens with large-diameter sand-surface FRP bars, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(2):227-234.(EI)
- [112] Thach, Pham-Ngoc;Liu, Han-Long;Kong, Gang-Qiang .Evaluation of PCC pile method in mitigating embankment vibrations from a high-speed train,*Journal of Geotechnical and Geoenvironmental Engineering*[J].2013,139(12):2225-2228.(EI)
- [113] Zhu, Wei;Min, Fan-Lu;Lv, Yi-Yan;Wang, Sheng-Wei;Sun, Zheng;Zhang, Chun-Lei ; Li, Lei .Subject of "mud science and application technology" and its research progress,*Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(11):3041-3054.(EI)
- [114] Xu, Guo-Jian;Shen, Yang;Liu, Han-Long .Analysis of particle flow for impacts of granular parameters and porosity on silt's properties under biaxial compression, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(11):3321-3328.(EI)
- [115] Zhu, Zhen-de;Ni, Xiaohui ; Hu, Zhenhua;Huang, Qiang;Li, Xiaojuan (3) .Mesoscopic damage quantification research of the deformation and failure of granite under circulatory load with different frequencies ,*European Journal of Environmental and Civil Engineering*[J].2013:.(EI)
- [116] Shi, Jian Yong;Yu, Xiang Juan;Ai, Ying Bo .Research of hydraulic characteristics of cofferdam and leaching system on joint way of Nanjing Second Yangtse Bridge, *Applied Mechanics and Materials*[J].2013,353-354:1040-1046.(EI)
- [117] Ding, Xuan-Ming;Liu, Han-Long;Yu, Tao;Kong, Gang-Qiang .Nonlinear finite element analysis of effect of seismic waves on dynamic response of Shiziping dam, *Journal of Central South University*[J].2013,20(8):2323-2332.(EI)
- [118] Chen, Yu-Min;Gao, Xing;Liu, Han-Long .Simplified method of flow deformation induced by liquefied sand, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(6):1567-1573.(EI)

- [119] Gao, Y.F.;Zhang, F.;Lei, G.H.;Li, D.Y. (2) .An extended limit analysis of three-dimensional slope stability, *Geotechnique*[J].2013,63(6):518-524.(EI)
- [120] Wang, Yuan;Feng, Di;Chen, Shangxing .Generation technology of soil crack network by fractal interpolation method, *Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology)*[J].2013,44(3):1159-1166.(EI)
- [121] Shen, Yang;Tao, Mingan;Liu, Hanlong;Gao, Youbin ; Cui, Yunliang .The performance of super soft foundation under modified vacuum preloading method, *Forensic Engineering 2012: Gateway to a Better Tomorrow - Proceedings of the 6th Congress on Forensic Engineering*[J].2013:708-715.(EI)
- [122] Shen, W.Q.;Shao, J.F.;Kondo, D. A micromechanical study of drying and carbonation effects in cement-based materials,*Continuum Mechanics and Thermodynamics*[J].2013:41287.(EI)
- [123] Chen, Xu-Guang;Zhang, Qiang-Yong ; Li, Shu-Cai ; Mei, Yu .Preliminary numerical simulation of zonal disintegration phenomenon in deep surrounding rock mass based on extended finite elements, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(11):3291-3298.(EI)
- [124] Chen, Liang;Zhao, Jingchuan;Li, Gang;Zhan, Lucheng;Lei, Wen .Experimental study of seawall piping under water level fluctuation, *European Journal of Environmental and Civil Engineering*[J].2013:.(EI)
- [125] Xiao, Yang .Erratum for "state pressure index for modeling sand behavior" by Zhi-Liang Wang, Yannis F. Dafalias, Xiang-Song Li, and Faiz I. Makdisi, *Journal of Geotechnical and Geoenvironmental Engineering*[J].2013,139(10):1847.(EI)
- [126] Chen, Yonghui;Qi, Changguang;Xu, Hongyue ; Ng, Charles W.W. (3) .Field Test Research on Embankment Supported by Plastic Tube Cast-in-place Concrete Piles, *Geotechnical and Geological Engineering*[J].2013,31(4):1359-1368.(EI)
- [127] Wang, Wei-Guo;Chen, Yu-Min;Liu, Han-Long;Zhang, Zhi-Chao .Numerical simulation of explosion in soil based on a coupled SPH-FEM algorithm, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(7):2104-2110.(EI)
- [128] Huang, Y.;Shao, J.F. .A micromechanical analysis of time-dependent behavior based on subcritical damage in claystones, *International Journal of Damage Mechanics*[J].2013,22(6):773-790.(EI)
- [129] Li, Guo-Wei;Jiang, Wei;Wu, Yu-Cai ; Wei, Shu-Hong (4); Luo, Zeng-Yi (5); Dai, Jian .Field tests on detecting cement mixing piles by static cone penetration tests in reserved hole, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(7):1289-1296.(EI)
- [130] Zhang, Nan;Zhu, Wei;Wang, Liang;Lv;, Yi-Yan;Zhou, Xuan-Zhao .Study of sedimentation and consolidation of soil particles in dredged slurry, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(6):1681-1686.(EI)
- [131] Wu, Yongxin;Gao, Yufeng;Li, Dayong; Xu, Changjie; Mahfouz, Ali Hasson. Study of the approximate approaches to the POD based spectral representation method,*Science China Technological Sciences*[J].2013,56(4):970-979.(EI)
- [132] Liu, Han-Long;Kong, Gang-Qiang ; Ding, Xuan-Ming ; Chen, Yu-Min.Performances of large-diameter cast-in-place concrete pipe piles and pile groups under lateral loads, *Journal of Performance of Constructed Facilities*[J].2013,27(2):191-202.(EI)
- [133] Wu, Yue-Dong;Shi, Ce-Hui;Liu, Jian;Li, Zhi-Guo .Study on the bearing characteristics of long-short piles composite foundation under embankment load, *Forensic Engineering 2012: Gateway to a Better Tomorrow - Proceedings of the 6th Congress on Forensic Engineering*[J].2013:673-681.(EI)

- [134] Wang, Wei;Xie, Shouyi ; Xu, Weiya .Experimental study and numerical modelling of thermo-mechanical behaviour of Tournemire argillite, *European Journal of Environmental and Civil Engineering*[J].2013,17(S1):s174-s186.(EI)
- [135] Liu, Zaobao;Shao, Jianfu;Xu, Weiya;Chen, Hongjie;Shi, Chong .Comparison on landslide nonlinear displacement analysis and prediction with computational intelligence approaches, *Landslides*[J].2013,11(5):889-896.(EI)
- [136] Wei, Jun Yang;Wang, Bao Tian;Zhang, Jing Hua ; Zhou, Bin (3) .Application of high pressure jet grouting pile with undrained open caisson combined construction technology in the protection of Yangtze River levee, *Applied Mechanics and Materials*[J].2013,368-370(1):1443-1449.(EI)
- [137] Guo-Wei, Li;Hua-Fu, Pei ; Cheng-Yu, Hong .Study on the stress relaxation behavior of large diameter B-GFRP bars using FBG sensing technology, *International Journal of Distributed Sensor Networks*[J].2013,2013:1-12.(EI)
- [138] Wang, Y.;Hu, M.S.;Rutqvist, J. (2) .Confined-unconfined seepage analysis using Numerical Manifold Method with an energy-work-based model, *Frontiers of Discontinuous Numerical Methods and Practical Simulations in Engineering and Disaster Prevention - Proceedings of the 11th Int. Conf. on Analysis of Discontinuous Deformation, ICADD 2013*[J].2013:349-355.(EI)
- [139] Thach, Pham-Ngoc;Liu, Han-Long;Kong, Gang-Qiang .Vibration analysis of pile-supported embankments under high-speed train passage, *Soil Dynamics and Earthquake Engineering*[J].2013,55:92-99.(EI)
- [140] Gao, Yufeng;Zhang, Fei;Lei, G.H.;Li, Dayong ; Wu, Yongxin;Zhang, Ning .Stability charts for 3D failures of homogeneous slopes, *Journal of Geotechnical and Geoenvironmental Engineering*[J].2013,139(9):1528-1538.(EI)
- [141] Shen, Yang;Huang, Wen Jun;Li, Yan De;Xu, Hai Dong .Calculation method of bearing capacity improvement of soft soil foundation under vacuum preloading, *Applied Mechanics and Materials*[J].2013,353-354:352-356.(EI)
- [142] Xiao, Yang .Erratum for "formulation of cross-anisotropic failure criterion for granular material" by yang xiao, hanlong liu, and gui yang, *International Journal of Geomechanics*[J].2013,13(5):698.(EI)
- [143] Liu, Han-Long;Fei, Kang .Analysis of earthquake induced permanent deformation of rockfill dam considering residual volumetric strain, *Yantu Lixue/Rock and Soil Mechanics*[J].2013,34(6):1687-1695.(EI)
- [144] Zhou, M.;Hossain, M.S. ; Hu, Y. ; Liu, H. .Behaviour of ball penetrometer in uniform single- and double-layer clays, *Geotechnique*[J].2013,63(8):682-694.(EI)
- [145] Chen, Jian-Sheng;Zhang, Xue-Jun;Chen, Liang;Xiao, Hua ; Xu, Shuang-Quan .Groundwater leakage of Jiangxiong Reservoir in Tibet based on plane-leakage heat source model, *Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering*[J].2013,35(2):258-265.(EI)
- [146] Sun, H.S.;Lei, G.H.;Ng, C.W.W.;Zheng, Q. .Displacements under linearly distributed pressures by extended Mindlin's equations, *Computers and Geotechnics*[J].2013,50:143-149.(EI)
- [147] Lu, Ting-Hao;Wu, Jun-Hua ; Yang, Song; Mei, Guo-Xiong .Study on mechanism of expansive soil slope failure and numerical simulation,*Geotechnical Practice Publication*[J].2013:162-174.(EI)
- [148] Xu-Guang, Chen;Yu, Mei ; Nan, Wu .Application of a rheology similar material in deep cavern model test, *Electronic Journal of Geotechnical Engineering*[J].2013,18 P:3435-3446.(EI)
- [149] Guo, Hai Qing;Wen, Bo;Bai, Xiao Feng .Study of seepage properties of fractured rock mass based on improved K-means clustering algorithm, *Applied Mechanics and Materials*[J].2013,405-408:310-315.(EI)

- [150] Jiang, T.;Shao, J.F.;Xu, W.Y. .A non-uniform transformation field analysis for frictional cohesive geomaterials, European Journal of Mechanics, A/Solids[J].2013,42:97-111.(EI)
- [151] Zhu, Zhende;Huang, Qiang;Wang, Jianbo;Shao, Jianfu;Wang, Wei .Mesoscopic experiment on degradation evolution of rock deformation and its meso-damage mechanical model, Yanshilixue Yu Gongcheng Xuebao/Chinese Journal of Rock Mechanics and Engineering[J].2013,32(6):1167-1175.(EI)
- [152] Zheng, Z.;Wang, W.;Cao, Y.J. .A statistical damage constitutive model with damage threshold based on Mogi-Coulomb criterion, Rock Characterisation, Modelling and Engineering Design Methods - Proceedings of the 3rd ISRM SINOROCK 2013 Symposium[J].2013:339-344.(EI)
- [153] Wang, Liang;Zhu, Wei;Mao, Jia-Feng ; He, Hong-Tao;Zhang, Nan;Xie, Jian .Application of improved multilayer extraction sampling to change of shear strength of dredged material during deposition process, Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering[J].2013,35(5):916-921.(EI)
- [154] Chen, Liang;Lei, Wen;Zhang, Hong-Yu ; Zhao, Jing-Chuan ; Li, Jia. Laboratory simulation and theoretical analysis of piping mechanism under unsteady flows, Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering[J].2013,35(4):655-662.(EI)
- [155] Zhang, Zhi-Chao; Chen, Yu-Min;Liu, Han-Long .Numerical analysis and evaluation of simulation of nature earthquake by millisecond blasting technique, Yantu Lixue/Rock and Soil Mechanics[J].2013,34(1):265-274.(EI)
- [156] Gao, Yufeng; Zhang, Ning .Scattering of cylindrical sh waves induced by a symmetrical v-shaped canyon: Near-source topographic effects, Geophysical Journal International[J].2013,193(2):874-885.(EI)
- [157] Chen, Jing-Jing;Lei, Guo-Hui .Effective stress and pore pressure coefficient controlling the deformation of saturated geomaterials, Yantu Lixue/Rock and Soil Mechanics[J].2013,33(12):3696-3703.(EI)
- [158] Zhuang, Yan; Cui, Xiaoyan; Liu,Hanlon. 3D FE analysis of arching in a piled embankment, Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering[J].2013,35(S1):118-123.(EI)
- [159] Zhuang, Yan; Wang, Kangyu; Liu,Hanlong. Reinforcement performance of piled embankments, Yantu Gongcheng Xuebao/Chinese Journal of Geotechnical Engineering[J].2013,35(S1):294-299.(EI)
- [160] Gu, Ming;Zhang, Fu You;Xu, Song .Analysis of residual displacement of combined base isolated structure, Applied Mechanics and Materials[J].2013,351-352:838-842.(EI)

4.2 科研项目（纵向）

- [1] 国家自然科学基金面上项目，项目名称：基于渗透性的膨胀土裂隙各向异性研究，项目编号：2013503311，项目负责人：袁俊平，合同经费：80
- [2] 国家自然科学基金面上项目，项目名称：垃圾土降解-渗透特性与填埋场液-气耦合轴对称流体运移理论研究 2013504311，项目负责人：施建勇，合同经费：85
- [3] 国家自然科学基金面上项目，项目名称：零有效应力状态下饱和砂土流动特性及液化大变形的试验研究 2013504611，项目负责人：陈育民，合同经费：80
- [4] 国家自然科学基金面上项目，项目名称：PCC 能量桩热、力学工程特性及桩-土荷载传递机理研究 2013504711，项目负责人：刘汉龙，合同经费：80
- [5] 国家自然科学基金青年项目，项目名称：冷热及干湿循环影响非饱和土小应变模量的试验与理论研究 2013506711，项目负责人：徐洁，合同经费：25
- [6] 国家自然科学基金面上项目，项目名称：THM 耦合过程中深埋岩石裂纹扩展机理与变形破坏规律研究 2013507501，项目负责人：阮怀宁，合同经费：80
- [7] 国家自然科学基金面上项目，项目名称：高水压高渗透性地层泥水盾构开舱开挖面稳定机理研究 2013508111，项目负责人：钟小春，合同经费：83

- [8] 国家自然科学基金青年项目, 项目名称: 多点输入地震作用下长大隧道的动力灾变研究 2013509511, 项目负责人: 吴勇信, 合同经费: 25
- [9] 国家自然科学基金青年项目, 项目名称: 深埋隧洞高压隐伏水体突灾细观水岩耦合机理研究 2013510011, 项目负责人: 倪小东, 合同经费: 25
- [10] 国家自然科学基金面上项目, 项目名称: 复杂荷载条件下 PCC 桩-网复合地基的动力响应与变形机理研究 2013512211, 项目负责人: 丁选明, 合同经费: 80
- [11] 国家自然科学基金青年项目, 项目名称: 基于细观特征分析的冰水堆积体渐进破坏机理多尺度研究 2013513911, 项目负责人: 石崇, 合同经费: 25

4.3 获奖

- [1] 长期循环动载下饱和软弱土地基灾变控制技术及应用, 国家科技进步奖二等奖, 项目完成人: 高玉峰(2), 2013 年。
- [2] 水利水电工程大型堆积体特性及失稳防控研究, 水力发电科学技术奖特等奖, 项目完成人: 徐卫亚(1)、石崇(2)、王伟(10)、王如宾(11), 2013 年。
- [3] 多场耦合多尺度岩石力学研究, 江苏省科学技术奖, 基础类二等奖, 项目完成人: 邵建富(1)、朱其志(2)、徐卫亚(3)、王伟(4), 2013 年。
- [4] 喀斯特化坝基岩体工程分类及处理研究鉴定, 贵州省科技进步奖三等奖, 项目完成人: 徐卫亚(3), 2013 年。
- [5] 滨海相深厚软土地区公路修筑关键技术, 山东省科技进步奖三等奖, 项目完成人: 顾长存(5), 2013 年。
- [6] 滨海相深厚软土地区公路修筑关键技术, 中国公路学会科学技术奖三等奖, 项目完成人: 顾长存(5), 2013 年。
- [7] 交通荷载作用下软土地基沉降、振动理论及控制技术, 浙江省科学技术奖一等奖, 项目完成人: 高玉峰(2)、庄妍(8)、陈永辉(9), 2013 年。
- [8] 土石坝心墙水力劈裂与自愈合的机理和分析方法, 重庆市自然科学奖三等奖, 项目完成人: 朱俊高(2)、殷宗泽(4)、张坤勇(5), 2013 年。
- [9] 特殊地基土的力学特性与高速公路控制变形成套技术, 江苏省科学技术奖一等奖, 项目完成人: 李国维(2), 2013 年。
- [10] 珠三角地区高速公路改扩建关键技术研究, 中国公路学会科学技术奖特等奖, 项目完成人: 李国维(4), 2013 年。

4.4 发明专利、软件著作权

(1) 获授权专利、软件著作权

- [1] 孔纲强、丁选明、陈育民、刘汉龙, 一种电化学灌浆联合浆固散体材料桩处理软基的方法, 专利号: 201110341232.x, 专利类型: 授权发明专利
- [2] 陈旭光、王媛、李术才、倪小东、张强勇, 用于真三维模型试验的立体洞腔模型成型方法及装置, 专利号: 201110337973.0, 专利类型: 授权发明专利
- [3] 李刚、陈亮、卢廷浩、许波琴, 一种浊液搅拌效果的判断装置及方法, 专利号: 201110333475.9, 专利类型: 授权发明专利
- [4] 陈旭光、王媛、李术才、张强勇、倪小东, 变截面立体洞腔模型制作模具及压制方法, 专利号: 201110403481.7, 专利类型: 授权发明专利
- [5] 陈亮、梁越、陈建生, 一种溶质运移弥散性参数测定方法及其测量装置, 专利号: 200910026152.8, 专利类型: 授权发明专利
- [6] 陈亮、梁越、陈建生, 一种研究土体渗透性破坏现象的试验方法及其试验装置, 专利号: 200910026153.2, 专利类型: 授权发明专利

- [7] 施建勇、艾英钵、刘晓东、彭功勋、廖智强, 垃圾土压缩沉降分层观测仪及其测试方法, 专利号: 200910181755.5, 专利类型: 授权发明专利
- [8] 阮怀宁、谢华刚、余华中、刘金辉、丁道红、温森、周琦, 一种复合聚能型爆破药包及其生产方法, 专利号: 200910232527.6, 专利类型: 授权发明专利
- [9] 沈扬、闫俊、杨星、费仲秋、崔允亮, 可拆卸常水头渗透系数测定仪, 专利号: 201010611151.2, 专利类型: 授权发明专利
- [10] 王伟、徐卫亚、孟庆祥、刘桃根、王海成、谢守益、杨庆刚, 一种岩石试样的制作方法, 专利号: 201110002099.5, 专利类型: 授权发明专利
- [11] 李刚、陈亮、林统、詹沪成、付长静, 一种含水层渗透系数测试系统及测试方法, 专利号: 201110056080.9, 专利类型: 授权发明专利
- [12] 孔纲强, 联合化学溶液注入电渗法处理软土地基及其施工方法, 专利号: 201110083840.5, 专利类型: 授权发明专利
- [13] 杨贵、刘汉龙、丁选明、高德清、刘平, 一种粗粒土大型空心圆柱制样器及使用方法, 专利号: 201110122295.6, 专利类型: 授权发明专利
- [14] 杨星、刘汉龙、余挺、丁选明、杨贵, 一种高土石坝抗震措施及其施工方法, 专利号: 201110122191.5, 专利类型: 授权发明专利
- [15] 王保田、杭永山、张文慧、刘利、马斐, 膨胀土胀缩表征参数的测量装置及其测量方法, 专利号: 201110099186.7, 专利类型: 授权发明专利
- [16] 刘文斌、王保田、倪福生, 二维切削仪, 专利号: 201110155581.2, 专利类型: 授权发明专利
- [17] 刘汉龙、丁选明、陈育民、凌九忠, 现浇钢筋混凝土大直径管桩施工方法, 专利号: 201110165215.5, 专利类型: 授权发明专利
- [18] 刘汉龙、丁选明、凌九忠、孔纲强, 一种软土地区 PCC 桩地下储藏井制作方法, 专利号: 201110165214.0, 专利类型: 授权发明专利
- [19] 刘汉龙、吕亚茹、丁选明、陈育民、张安乐, 一种超长 PCC 桩桩模双层套管连接段及沉模连接方法, 专利号: 201110152070.5, 专利类型: 授权发明专利
- [20] 孔纲强、杨庆、杨钢, 一种化学电渗法联合微型抗滑桩治理滑坡工程的方法, 专利号: 201110175164.4, 专利类型: 授权发明专利
- [21] 刘彦辰、刘汉龙、杨贵、丁选明、曹兆虎, 一种土体三轴试验试样密封装置及使用方法, 专利号: 201110175182.2, 专利类型: 授权发明专利
- [22] 孙树林、郑青海、唐俊, 碱渣改良膨胀土的方法及其施工方法, 专利号: 201110207536.7, 专利类型: 授权发明专利
- [23] 李守德、林如、李勇、蒋勇、林琴琴, 调水渠道漂浮污染物收集器, 专利号: 201110277177.2, 专利类型: 授权发明专利
- [24] 杨贵、刘汉龙、丁选明、蒋尧、刘彦辰, 一种土与结构物接触面力学双向振动力学特性测试仪器, 专利号: 201210006950.6, 专利类型: 授权发明专利
- [25] 陈旭光、王媛、李术才, 用于岩石力学领域的类岩石试件模具, 专利号: 201210097450.8, 专利类型: 授权发明专利
- [26] 陈育民、周葛、吴海清、薛珊珊, 一种测试液化后砂土表观黏度的试验装置, 专利号: 201220274446.X, 专利类型: 授权实用新型专利
- [27] 周葛、陈育民、丁选明、徐呈祥, 一种测试液液化后颗粒运动状态的试验装置, 专利号: 201220274276.5, 专利类型: 授权实用新型专利
- [28] 张富有、宋芸、石崇、董玉勇、裴萌, 一种用于高压电气设备隔震的组合式隔震支座, 专利号: 201220335331.7, 专利类型: 授权实用新型专利

- [29] 俞海洲、王保田、李守德、张文慧、赵辰洋、郭帅杰、段衍伟，管式侧开闭口软土取土装置，专利号：201220314275.9，专利类型：授权实用新型专利
- [30] 赵辰洋、王保田、李守德、张文慧、俞海洲、郭帅杰、赵波，管状弹簧伸缩封启侧开口取土装置，专利号：201220375561.6，专利类型：授权实用新型专利
- [31] 王保田、王培清、张海霞、张福海、张文慧、李守德、郭帅杰，一种互嵌式生态砌块挡墙，专利号：201220411666.2，专利类型：授权实用新型专利
- [32] 王保田、赵辰洋、李守德、张文慧、俞海洲、魏军扬，管状气囊封启侧开口取土器，专利号：201220421516.X，专利类型：授权实用新型专利
- [33] 朱俊高、薄以霆、吴中凡，一种休止角测定仪，专利号：201220479823.3，专利类型：授权实用新型专利
- [34] 王保田、赵辰洋、俞海洲，活动门封启侧开口取土装置，专利号：201220516631.5，专利类型：授权实用新型专利
- [35] 张富有、顾明、徐松、王舒珊珊、张佳琳，一种抗倾覆隔震支座，专利号：201220512016.7，专利类型：授权实用新型专利
- [36] 石崇、徐卫亚、王盛年、王海礼、张玉龙，一种竖向直接剪切试验装置，专利号：201220567927.X，专利类型：授权实用新型专利
- [37] 王保田、王培清、郭帅杰、张海霞、张福海、张文慧、李守德，一种互嵌式砌块，专利号：201220663920.8，专利类型：授权实用新型专利
- [38] 王保田、俞海洲、郭帅杰、赵辰洋、陈一新、计鹏，用于粘性土胀缩特性表征参数测试的收缩圆盘，专利号：201320007141.7，专利类型：授权实用新型专利
- [39] 赵小龙、陈亮、赵敬川、詹泸成、黄德文、高为壮、雷文，一种弹簧式振动采水器，专利号：201320057307.6，专利类型：授权实用新型专利
- [40] 詹泸成、陈亮、黄德文、赵小龙、赵敬川、罗志琳、雷文，一种含水层渗透系数分段测量装置，专利号：201320057242.5，专利类型：授权实用新型专利
- [41] 赵小龙、陈亮、詹泸成、黄德文、赵敬川、夏兵兵、雷文，一种振动式水样采集器，专利号：201320054426.6，专利类型：授权实用新型专利
- [42] 赵敬川、陈亮、詹泸成、黄德文、赵小龙、夏冰冰，一种堤防工程渗透破坏发展过程的模型试验装置，专利号：201320076745.7，专利类型：授权实用新型专利
- [43] 沈扬、黄文君、励彦德、徐海东、张力，一种有机质土含水率的测定装置，专利号：201320023344.5，专利类型：授权实用新型专利
- [44] 孔纲强、顾红伟、彭怀风，一种预埋传热管的预制能量桩装置，专利号：201320076328.2，专利类型：授权实用新型专利
- [45] 赵敬川、陈亮、赵敬磊、李天磊、王高峰、马阔、叶公贵，一种研究江河大堤流土破坏的模型试验装置，专利号：201320205077.3，专利类型：授权实用新型专利
- [46] 施建勇、李砚、孙龙，一种实验用土工膜表面轮廓仪，专利号：201320274674.1，专利类型：授权实用新型专利
- [47] 张海龙、徐卫亚、王伟、石崇、孟庆祥、王盛年，一种家庭室内草坪盒，专利号：201320323459.6，专利类型：授权实用新型专利
- [48] 张海龙、王伟、石崇、姚贺东，一种防染色衣架，专利号：201320392425.2，专利类型：授权实用新型专利
- [49] 王保田、王培清、张海霞、张福海、张文慧、李守德、郭帅杰，互嵌式生态砌块，专利号：201230394563.5，专利类型：授权实用新型专利
- [50] 王保田、王培清、郭帅杰、张海霞、张福海、张文慧、李守德，互嵌式砌块，专利号：201230602767.3，专利类型：授权实用新型专利

- [51] 徐卫亚、黄纬、陈鸿杰、姜微、俞隽、石崇，动态规划极限平衡有限元稳定分析软件 V1.0，专利号：2013SR028556，专利类型：软件著作权
- [52] 黄玮、徐卫亚、陈泓杰、姜薇、顾锦健、俞隽，边坡/滑坡滑面（带）物理力学参数智能反演软件 V1.0，专利号：2013SR054062，专利类型：软件著作权
- [53] 石崇、徐卫亚、王海礼、王盛年、张玉龙、陈凯华，复杂几何颗粒流数值模型生成软件 V1.0，专利号：2013SR055134，专利类型：软件著作权
- [54] 石崇、徐卫亚、王海礼、王盛年、张玉龙、陈凯华，FLAC3D 结构单元智能施加程序 V1.0，专利号：2013SR055127，专利类型：软件著作权
- [55] 石崇、徐卫亚、王海礼、王盛年、张玉龙、陈凯华，已知滑动面边坡三维刚体极限平衡分析软件 V1.0，专利号：2013SR055125，专利类型：软件著作权
- [56] 王媛、冯迪，岩体二维随机裂隙网络模拟和等效渗透张量计算软件 V1.0，专利号：2013SR080104，专利类型：软件著作权
- [57] 石崇、徐卫亚、王海礼、王盛年、石中文，散体多元细观介质随机构形生成系统 V1.0，专利号：2013SR078468，专利类型：软件著作权
- [58] 倪小东、魏鹏，基于 PFC2D 细观渗流应力耦合全自动分析软件 V1.0，专利号：2013SR078465，专利类型：软件著作权
- [59] 徐卫亚、闫龙、张强、王海礼，DLAC3D 三维数值模型转换软件 V1.0，专利号：2013SR081546，专利类型：软件著作权
- [60] 陈旭光、梅宇、王媛，模型试验液压加载数字式控制软件 V1.0，专利号：2013SR127557，专利类型：软件著作权
- [61] 倪小东、李维松、魏鹏，隧道开挖动态信息展示平台 V1.0，专利号：2013SR122672，专利类型：软件著作权
- [62] 徐卫亚、郑志、张强、王伟，基于 AutoCAD 的 FLAC3D 复杂锚杆单元生成软件 V1.0，专利号：2013SR122688，专利类型：软件著作权
- [63] 王伟、郑志、张强、徐卫亚，基于 AutoCAD 的 FLA3D 复杂桩锚模型生成软件 V1.0，专利号：2013SR121426，专利类型：软件著作权
- [64] 周航、孔纲强、刘汉龙、曹兆虎、杨贵，矩形孔扩张计算软件 V1.0，专利号：2013SR121475，专利类型：软件著作权
- [65] 周航、孔纲强、刘汉龙、丁选明，水平荷载作用下现浇 X 形桩的水平承载力计算软件 V1.0，专利号：2013SR121479，专利类型：软件著作权
- [66] 周航、孔纲强、王磊、刘汉龙、杨贵，沉桩过程中楔形桩沉桩影响位移场与沉桩阻力计算软件 V1.0，专利号：2013SR121502，专利类型：软件著作权
- [67] 孔纲强、陈力恺、刘汉龙、于陶，基于软弱土非线性固结沉降的桩基负摩阻力计算软件 V1.0，专利号：2013SR121484，专利类型：软件著作权
- [68] 倪小东、李维松、魏鹏，ArcGIS 多层栅格 DEM 到 ANSYS 六面体单元的转换接口软件 V1.0，专利号：2013SR122527，专利类型：软件著作权
- [69] 王媛、倪小东、李维松、魏鹏，GOCAD 到 FLAC3D 转换接口软件 V1.0，专利号：2013SR122690，专利类型：软件著作权
- [70] 陈旭光、梅宇、王媛，地下储气库注采气控制软件 V1.0，专利号：2013SR132684，专利类型：软件著作权

（2）申请专利、软件著作权

- [1] 王保田、魏军扬抗碱绿化变倾角式互嵌挡墙砌块及互嵌挡墙的施工方法，专利号：ZL201310509289.5，专利类型：发明专利

- [2] 崔猛,易进翔,洪宝宁,刘鑫,方庆军,朱俊杰,土体拉伸过程中细观结构变化规律测试方法, 专利号: ZL201310713242.0, 专利类型: 发明专利
- [3] 吕亚茹,丁选明,吴宏伟,刘汉龙,一种自动控制落距的砂雨装置和使用方法, 专利号: ZL201310506570.3, 专利类型: 发明专利
- [4] 沈扬,励彦德,黄文君,陶明安,徐海东,一种膨胀性电渗阴极井点管及其施工方法, 专利号: ZL201310751422.8, 专利类型: 发明专利
- [5] 吴跃东,罗如平,石晓燕,丁磊,张鹏,刁红国,一种降低桥头跳车发生率的路堤结构及填筑方法, 专利号: ZL201310563068.6, 专利类型: 发明专利
- [6] 高磊,金龙,余湘娟,基于 FBG 传感器的圆形实心混凝土桩桩身应变测量方法, 专利号: ZL201310673214.0, 专利类型: 发明专利
- [7] 高磊,余湘娟,李明坤,刘和文,王猛,一种滑动式测斜仪的电缆缠绕装置, 专利号: ZL201310599659.9, 专利类型: 发明专利
- [8] 徐卫亚,石崇,张强,孟庆祥,王伟 B,王如宾,张久长,王盛年,组独有边界单元面的无厚度 3 节点衬砌单元智能构建方法, 专利号: ZL201310305706.4, 专利类型: 发明专利
- [9] 陈亮,高为壮,夏兵兵,吴炫,王涛,丁小闯,胡海星,冯俊杰,深细井内机械式投源剂均匀投放方法及其投放装置, 专利号: ZL201310671817.7, 专利类型: 发明专利
- [10] 张福海,陈雷,任鹏勋,张永立,胡康俊,具有双重排水通道的抽排式塑料排水管, 专利号: ZL201310328542.7, 专利类型: 发明专利
- [11] 赵博,徐卫亚,梁桂兰,张冬梅,陈鸿杰,倪海江,一种岩石高边坡的危险性评价方法, 专利号: ZL201310202067.9, 专利类型: 发明专利
- [12] 庄妍,王康宇,顾浩,崔晓艳,陆亚明,一种桩承式加筋路堤的有限元建模分析方法, 专利号: ZL201310538714.3, 专利类型: 发明专利
- [13] 吴跃东,刁红国,刘坚,陈锐(学),石晓燕(学),一种有效防治路基湿化病害的毛细阻滞路基结构以及施工方法, 专利号: ZL201310408929.3, 专利类型: 发明专利
- [14] 高磊,余湘娟,周斌,陈晖东,周秋月,一种具有高无侧限抗压强度的土料, 专利号: ZL201310645643.7, 专利类型: 发明专利
- [15] 魏军扬,王保田,赵波,王莹莹,绳索夹具式抗剪绿化变倾角互嵌挡墙砌块及绳索固定方法, 专利号: ZL201310509480.X, 专利类型: 发明专利
- [16] 陈亮,王保田,黄德文,詹沪成,赵敬川,罗志琳,一种变水头分段渗透系数测量设备及测量方法, 专利号: ZL201310038456.2, 专利类型: 发明专利
- [17] 丰土根,杨才,杨景森,单亚,一种加固岩质边坡节理面的可回收锚杆系统及其安装方法, 专利号: ZL201310136969.7, 专利类型: 发明专利
- [18] 丰土根,杨才,一种 U 型测斜管及其安装与埋设方式, 专利号: ZL201310442174.9, 专利类型: 发明专利
- [19] 孔纲强,彭怀风,吴宏伟,丁选明,一种地源热泵灌注桩钢筋笼内埋管的施工方法, 专利号: ZL201310302155.6, 专利类型: 发明专利
- [20] 周亚东,王保田,祁生旺,潘东庆,电渗-真空-加载联合固结仪, 专利号: ZL201310136864.1, 专利类型: 发明专利
- [21] 陶明安,沈扬,励彦德,高庄平,徐海东,吕若冰,基于分段式电渗电极及其电渗排水系统, 专利号: ZL201310120362.X, 专利类型: 发明专利
- [22] 丰土根,杨才,吴诗阳,一种圆盘式混凝土灌注桩及其施工工艺, 专利号: ZL201310251468.3, 专利类型: 发明专利

- [23] 袁黎,刘汉龙,王伟 B, 一种交叉口机动车信号灯设置需求判定方法, 专利号: ZL201310397411.4, 专利类型: 发明专利
- [24] 高玉峰,吴迪,周源,叶茂,朱德胜,宋文智,陆志浩, 一种用于淤泥排水的变频控制真空装置及其使用方法, 专利号: ZL201310359862.9, 专利类型: 发明专利
- [25] 沈扬,葛冬冬,王保光, 一种地基破坏形式模拟及承载力测试装置和试验方法, 专利号: ZL201310431671.9, 专利类型: 发明专利
- [26] 袁黎,刘汉龙,李锐, 路段行人过街信号灯设置判定方法, 专利号: ZL201310583233.4, 专利类型: 发明专利
- [27] 丰土根,杨才,张福海, 一种用全站仪测深层土体水平位移的方法, 专利号: ZL201310549504.4, 专利类型: 发明专利
- [28] 丰土根,胡康俊,张福海,钱秋莹,金浩然,苒破,单亚, 一种可循环利用的智能化轴力仪, 专利号: ZL201310555094.4, 专利类型: 发明专利
- [29] 徐卫亚,贾朝军,王如宾,张久长,张强,顾锦健,王欣,俞隽, 一种动态围压下联合测定致密岩石渗透率和孔隙度的方法, 专利号: ZL201310120665.1, 专利类型: 发明专利
- [30] 高玉峰,张莹,周源,黄思杰,曹久亭,孙阳光,陆志浩, 一种用于淤泥排水的单泵低真空发生装置及其使用方法, 专利号: ZL201310361409.1, 专利类型: 发明专利
- [31] 丁选明,卢一为,李平,孔纲强, 真空电渗联合加固含砂土夹层软土地基的系统和方法, 专利号: ZL201310469137.7, 专利类型: 发明专利
- [32] 高玉峰,尹立新,薛国强,李奇, 可拆除的组合桩及其拆除施工方法, 专利号: ZL201310592912.8, 专利类型: 发明专利
- [33] 周源,高玉峰,陆志浩,张凌云,邱月,杨清杰,林贻谛, 一种用于淤泥排水的主辅泵变频控制可调真空装置及使用方法, 专利号: ZL201310361218.5, 专利类型: 发明专利
- [34] 钟小春,王媛,王慧洁,叶文龙,王红飞,倪小东, 一种盾构穿越硬质岩层对临近桩基影响的控制方法, 专利号: ZL201310227360.0, 专利类型: 发明专利
- [35] 罗如平,吴跃东,刁红国,石晓燕,丁磊,张鹏, 灌注桩桩套管及其施工方法, 专利号: ZL201310562484.4, 专利类型: 发明专利
- [36] 赵小龙,陈亮,黄德文,詹沪成,赵敬川,夏兵兵,高为壮, 一种利用冰封栓塞分段封堵钻孔的装置及方法, 专利号: ZL201310039360.8, 专利类型: 发明专利
- [37] 周源,高玉峰,丰土根,张飞,张宁,陆志浩, 分块锚固压片式护坡砖结构及其施工铺设方法, 专利号: ZL201310071459.6, 专利类型: 发明专利
- [38] 孔纲强,黄旭,丁选明,刘汉龙,彭怀风, 一种六边形预制能量桩及其制作方法, 专利号: ZL201310442139.7, 专利类型: 发明专利
- [39] 王伟 B,徐卫亚,王环玲,王欣,王如宾,贾朝军,吕军, 一种岩石气体渗透测定装置及测定方法, 专利号: ZL201210590766.0, 专利类型: 发明专利
- [40] 彭劼,金浩然,姬文广,李能,熊雄,张文彬,苏波, 一种微生物-电渗联合加固粘土的装置及方法, 专利号: ZL201310232687.7, 专利类型: 发明专利
- [41] 陈亮,赵敬川,吴炫,夏兵兵,王涛,丁小闯, 一种消力池底部渗漏位置的探测方法, 专利号: ZL201310038457.7, 专利类型: 发明专利
- [42] 石崇,徐卫亚,朱其志,王盛年,王海礼,王秀菊,陈凯华,张玉龙,刘兴宁,孙怀昆, 一种三棱柱地质模型的构建方法, 专利号: ZL201310147540.8, 专利类型: 发明专利
- [43] 朱俊高,安淑红,朱梦媛, 一种土体静止侧压力系数测定仪, 专利号: ZL201210473962.X, 专利类型: 发明专利

- [44] 孔纲强,黄旭,丁选明,一种预制能量桩的施工方法,专利号:ZL201310441978.7,专利类型:发明专利
- [45] 周源,高玉峰,陆志浩,杨尚川,裴广龙,王宏权,一种用于淤泥排水的主辅泵低真空提供装置及其操作方法,专利号:ZL201310359896.8,专利类型:发明专利
- [46] 张福海,陈雷,郭帅杰,任鹏勋,钱秋颖,抽排式真空预压加固软基方法,专利号:ZL201310328314.x,专利类型:发明专利
- [47] 周亚东,王保田,张明,祁生旺,孙贝贝,水力-电力渗透系数测量装置及测量方法,专利号:ZL201310088953.3,专利类型:发明专利
- [48] 周源,高玉峰,丰土根,张宁,张飞,张莹,陆志浩,锚固分体拱桥式护坡结构及其施工铺设方法,专利号:ZL201310071458.1,专利类型:发明专利
- [49] 高磊,刘汉龙,陈晖东,余湘娟,X型模型桩加载监测装置及监测方法,专利号:ZL201310689235.1,专利类型:发明专利
- [50] 徐卫亚,贾朝军,冯树荣,赵海斌,梅松华,王如宾,闫龙,张强,岩石渗透性测试系统及测试方法,专利号:ZL201310545362.4,专利类型:发明专利
- [51] 沈扬,陶明安,王鑫,姚贺东,李海龙,孙路东,基于真空联合电渗作用的重塑软粘土制样装置及方法,专利号:ZL201310251375.0,专利类型:发明专利
- [52] 王媛,李东田,李青禾,一种超高压管道扩容式稳压接头,专利号:201310028024.3,专利类型:发明专利
- [53] 王保田,张文慧,俞海洲,杜妍平,赵辰洋,一种提高膨胀土边坡稳定性和控制膨胀土结构破坏的方法,专利号:201310040756.4,专利类型:发明专利
- [54] 陈庚,陈永辉,陈龙,王颖,李行,超软土异步真空吸水预压法,专利号:201310096244.X,专利类型:发明专利
- [55] 陈亮,赵敬川,夏兵兵,高为壮,雷文,丁小闯,康方博,一种多元堤基管道式管涌型渗透变形的模型及试验方法,专利号:201310138570.2,专利类型:发明专利
- [56] 孔纲强,刘汉龙,杨庆,一种预应力楔形管桩接头技术及其施工方法,专利号:201310052957.6,专利类型:发明专利
- [57] 赵波,王保田,郭帅然,一种视准线法水平位移专用测量尺,专利号:ZL201320604464.4,专利类型:发明专利
- [58] 孙召花,高明军,周伟,一种绝缘电线接头,专利号:ZL201320637756.8,专利类型:发明专利
- [59] 吴鸿昇,吴跃东,曾垂昌,刘力焯,用于布置桥墩监测点的装置,专利号:ZL201320690248.6,专利类型:发明专利
- [60] 刘鑫,洪宝宁,盛柯,朱俊杰,徐奋强,崔猛,孙健,大口径薄壁圆柱形顶管管节钢筋笼卷焊装置,专利号:ZL201320706790.6,专利类型:发明专利
- [61] 张鹏,吴跃东,丁磊,罗如平,基于双压力传感器的沉降测量装置及测量系统,专利号:ZL201320782858.9,专利类型:发明专利
- [62] 吴跃东,陈永辉,张鹏,丁磊,罗如平,刁红国,石晓燕,基于双孔隙水压力计的沉降测量装置及测量系统,专利号:ZL201320784078.8,专利类型:发明专利
- [63] 吴跃东,张鹏,丁磊,罗如平,刁红国,石晓燕,基于压力传感器的沉降观测装置及测量系统,专利号:ZL201320784080.5,专利类型:发明专利
- [64] 夏兵兵,陈亮,高为壮,丁小闯,胡海星,王涛,赵小龙,赵敬川,吴炫,一种示踪剂投放管,专利号:ZL201320818771.2,专利类型:发明专利

- [65] 陈依琳,王媛,陈旭光,牛玉龙, 一种利用电磁力加载的岩石直接拉伸试验装置, 专利号: ZL201320829642.3, 专利类型: 发明专利
- [66] 张海龙,王伟,石崇,姚贺东, 一种防染色衣架, 专利号: ZL201320392425.2, 专利类型: 发明专利
- [67] 丰土根,谭箐(学),杨才(学), 一种挖入式港池的清淤系统, 专利号: ZL201320394801.1, 专利类型: 发明专利
- [68] 孔纲强,周航,刘汉龙,杨庆, 地面堆载作用下扩底楔形桩桩侧负摩阻力计算软件 V1.0, 专利号: 2013SR127109, 专利类型: 软件著作权
- [69] 孔纲强,周航,刘汉龙,杨庆, 扩底楔形桩竖向承载力计算软件 V1.0, 专利号: 2013SR127584, 专利类型: 软件著作权

5.学术交流

主办学术会议 2 次,分别为钱家欢先生诞辰九十周年纪念活动暨第二届岩土力学与堤坝工程学术研讨会;全国岩土工程与结构安全研究生暑期学校。

参加国内外学术会议 37 人次,包括第第一届全国非饱和土与特殊土力学及工程学术研讨会、第 8 届全国青年岩土力学与工程会议暨青年华人岩土工程论坛、第二届防灾减灾工程学术会议、第四届国际岩土安全及风险大会、美国岩石力学暨地质力学年会等等。

邀请国内外专家学术报告 10 人次。