

PUBLICATIONS

Liming HU, Ph.D., P.E., Tsinghua University

A. Peer Reviewed Journal Papers (in English)

1. Pasha A Y, **Hu L**, Meegoda J N. Numerical Simulation of LNAPL Movement in a Variably Saturated Soil with Secondary Flow. **Canadian Geotechnical Journal**, 2014, Revision submitted.
2. **Hu L**, Meegoda J, Li H, Du J, Gao S. Study on Mechanism of Air Sparging using Geotechnical Centrifuge. **Journal of Environmental Engineering ASCE**, 2014, Revision submitted.
3. Li H, **Hu L**(Corresponding author), Song D, Lin F. Characteristics of Micro-nano Bubbles and Potential Application in Groundwater Bioremediation. **Water Environment Research**, 2013, Accepted.
4. **HU Liming**, WU Hui. Mathematical Model of Electro-osmotic Consolidation for Soft Ground Improvement. **Geotechnique**. 2014, 64(2): 155-164.
5. Li H, **Hu L**(Corresponding author), Song D, Al-Tabbaa A. Transport behavior of micro-nano bubbles in subsurface and potential application for groundwater remediation. **Int. J. Environ. Res. Public Health** 2014, 11, 473-486.
6. Tan, X., Hu, L., Reed, A. H., Furukawa, Y., & Zhang, G. Flocculation and particle size analysis of expansive clay sediments affected by biological, chemical, and hydrodynamic factors. **Ocean Dynamics**, 2014, 64(1), 143-157.
7. Dong WX, **Hu LM**, Yu YZ, Lv H. Comparison between Duncan and Chang's EB model and the generalized plasticity model in the analysis of a high earth-rockfill dam. **Journal of Applied Mathematics**, 2013, Article ID 709430, <http://dx.doi.org/10.1155/2013/709430>.
8. Li HZ, **Hu LM**(Corresponding author), Xia ZR. Impact of groundwater salinity on bioremediation enhanced by micro-nano bubbles. **Materials**, 2013, 6, 3676-3687.
9. Gao SY, Meegoda JN, **Hu LM**(Corresponding author). A dynamic two-phase flow model for air sparging. **International Journal for Numerical and Analytical Methods in Geomechanics**, 2013, 37(12): 1801-1821.
10. Zhang J, Hu LM, Pant R, Yu, Wei, Zhang. Effects of interlayer interactions on the nanoindentation behavior and hardness of 2:1 phyllosilicates. **Applied Clay Science**, 2013, 80-81: 267-280.
11. Wu H, **Hu LM**(Corresponding author). Analytical solution for axisymmetric electro-osmotic consolidation. **Geotechnique**. 63(12): 1074 -1079.
12. Wu H, **Hu L**(Corresponding author). Numerical model of soft ground improvement by vertical drain combined with vacuum preloading. **Journal of Central South China University**, 2013, 20(7): 2066-2071.
13. Liu Xiaoli; **Hu Liming**; Wang Enzhi; Xue Qiang. Study on Landfill Leachate Plumes with coupled Liquid-Solid Model. **Disaster Advances**, 6(7): 51-57.
14. Wu H, **Hu LM**(Corresponding author). Discussion of "Numerical assessment of equivalent diameter equations for prefabricated vertical drains". **Canadian Geotechnical Journal**, 2013, 50(7): 801-804.
15. Pasha AY, **Hu LM**, Meegoda JN, Ebadi T. Back-Calculated Soil–Water Characteristic Curve From Fluid Flow Data. **ASTM Geotechnical Testing Journal**, 2013, 36(3): 301-309.
16. Pasha AY, Aflaki E, **Hu LM**(Corresponding author), Meegoda JN. Effect of Soil Fabric on Transport of a LNAPL through Unsaturated Fine Grained Soils: A Centrifugal Model Study. **Soil and Sediment Contamination**, 2013, 22(2): 223-240.
17. Gao SY, Meegoda JN, **Hu LM**(Corresponding author). Simulation of Dynamic Two-phase Flow during Multistep Air Sparging, **Transport in Porous Media**, 2013, 96: 173-193.
18. Gao SY, Meegoda JN, **Hu LM**(Corresponding author). Two Methods for Pore-Network of Porous Media. **International Journal for Numerical and Analytical Methods in Geomechanics**, 2012, 36(18): 1954-1970.
19. WU Hui, **HU Liming**(Corresponding author). Analytical and Numerical Solutions for Vacuum

Preloading Considering a Radius Related Strain Distribution. *Mechanics Research Communications*, **Mechanics Research Communications**, 2012, 44: 9-14.

20. **HU Liming**, WU Weiling, WU Hui. Theoretical and numerical model of electro-osmosis consolidation in soft clay. **Geotechnique**, 2012, 62(6): 537-541.
21. Pashal A Y, **Hu LM**, Meegoda J N, Aflaki E, Du J. Centrifuge modeling of in-situ surfactant enhanced flushing of diesel contaminated soil. **ASTM Geotechnical Testing Journal**, 2011, 34(6): 623-633.
22. **HU Liming**, MEEGODA J, DU Jianting, GAO Shengyan, WU Xiaofeng. Centrifugal Study of Zone of Influence during Air-Sparging. **Journal of Environmental Monitoring, RSC**, 2011, 13 (9), 2443-2449.
23. Meegoda JN, **Hu LM**. A Review of Centrifugal Testing of Gasoline Contamination and Remediation. **Int. J. Environ. Res. Public Health** 2011, 8, 3496-3513.
24. Gao Shengyan, Meegoda J N, **Hu Liming** (Corresponding author). Microscopic Modeling of Air Migration during Air Sparging. **Journal of Hazardous, Toxic, and Radioactive Waste**, ASCE, 2011, 15(2): 70-79. [ASCE-EWRI Best Paper Award]
25. Meegoda J. N., Gao S, Al-Joulani N., **Liming Hu**. Solid waste and ecological issues of coal to energy. **Journal of Hazardous, Toxic, and Radioactive Waste**, ASCE, 2011, 15(2): 99-107.
26. **Hu Liming**, Wu Xiaofeng, Liu Yan, Meegoda J N, Gao Shengyan. Physical Modeling of Air Flow during Air Sparging Remediation. **Environmental Science and Technology, ACS**, 2010, 44(10): 3883-3888.
27. **HU Liming**, ZHAO Min, PU Jialiu. Centrifuge modeling of an offshore water-intake project under ice loading. **Applied Ocean Research**, 2010, 32(1): 49-57.
28. **Hu Liming**, Zhang Bingyin, Ma Jie. Mechanical characteristics for interfaces between granular materials. **Mechanics Research Communications**, 2010, 37(1): 42-46.
29. **Hu Liming**, Ding Jinwei, Liu Haixiao. Mechanical Behavior of Marine Clay under Wave Loading. **International Journal of Offshore and Polar Engineering**. 2010, 20(1): 72-79.
30. Dawson A, Boothroyd P, Ma J and **HU Liming**. Two-dimensional numerical simulation of groundwater contamination in the highway environment, **International Journal of Pavement Engineering**, 2009, 10(4): 265-276.
31. Zhang Bingyin, Yu Yuzhen, Fu Jian, **HU Liming**. Simple Shear Test for Interface between Two Granular Materials, **Geotechnical Testing Journal, ASTM**, 2008, 31(3): 252-260.
32. **Hu Liming**, Lo IMC, Meegoda JN. Numerical analysis and centrifuge modeling on LNAPLs transport in subsurface system. **Progress in Natural Science**, 2006, 16(4): 416-424.
33. **Hu LM**, Lo IMC, and Meegoda NJ. Centrifuge Testing of LNAPL Migration and Soil Vapor Extraction for Soil Remediation. **Practice Periodical Hazardous, Toxic, and Radioactive Waste Management**, ASCE. 2006, 10(1): 33-40.
34. Lo IMC, **Hu L. M.**, and Meegoda, N. J. Feasibility Study of Using Centrifuge for Investigation of LNAPL Migration in Unsaturated Soils. **Soil and Sediment Contamination, AHA**, 2005, 14(1), 85-103.
35. Lo Irene M. C., Zhang Jianhong, **HU Liming**. Centrifuge Modeling of Cadmium Migration in Saturated and Unsaturated Soils, **Soil and Sediment Contamination, AHA**, 2005, 14(5), 417-431.
36. **HU Liming**, PU Jialiu. Testing and Modeling of Soil-structure Interface. **Journal of geotechnical and geo-environmental Engineering**, ASCE, 2004, 130(8): 851-860.
37. Lo IMC, **Hu LM**. Centrifuge Modeling of LNAPLs Transport In Unsaturated Soils. **Journal of Geotechnical and Geo-environmental Engineering**, ASCE, 2004, 130(5): 535-539.
38. Lo IMC, **Hu LM**. Long-term migration of light nonaqueous-phase liquids in two unsaturated soils: Clayey silt and fine sand. **Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management**, 2004, 8(4): 228-237.
39. Lo IMC, Zhang JH, **Hu LM**, and Shu SZ. Effect of Soil Stress on Cadmium Transport in Saturated Soils. **Practice Periodical of Hazardous, Toxic and Radioactive Management, ASCE**, 2003,

7(3): 170-176.

40. **Hu Liming**, PU Jialiu. Application of Damage Model for Soil-structure Interface, **Computers and Geotechnics**, 2003, 30(2): 165-183.
41. Zhang Jianhong, **Hu Liming**, Pu Jianliu, Ying Kunting, Behavior of Plastic Concrete Diaphragm and Walls in Three Gorges Project, **Tsinghua Science and Technology**, 1999, 4(1): 1367-1370.

B. Invited Keynote Lectures

1. Electro-Osmotic Consolidation: Theory and Practice. **Huangwenxi Lecture**, Beijing. 2013. (In Chinese)
2. Innovative Groundwater Remediation Technology. **The 8th Chinese National Congress for Youth Geotechnical Engineers**. Nanchang. 2013. (In Chinese)
3. Geo-environmental Engineering: Past, Present and Future. **National Conference for Site Investigation**, Kunming. 2013. (In Chinese)
4. Numerical Simulation and Physical Modeling of Subsurface Contamination and In-situ Remediation. **The 1st Chinese National Conference on Multi-field Coupled Problems of Geo-materials and Environmental Geotechnics**. Hangzhou. 2012.12. (In Chinese)
5. Model tests and Numerical Simulation on Air Sparging Remediation. **The 3rd Chinese National Conference on Geo-Environmental Engineering and Geosynthetics**, Shanghai, 2011.11. (In Chinese)
6. Groundwater Contamination and Remediation. **International Workshop on Geo-environmental Engineering**, Wuhan, March 18-20, 2009. (in English)
7. Centrifugal Modeling of Gasoline Contaminated Sites: Pollutant Transport and Remediation, **Int. Symp. on Geoenvironmental Eng., ISGE2009**, 2009, Hangzhou, China. (In English)
8. Soil Contamination and Remediation Technology. **The 2nd Chinese National Conference on Geo-Environmental Engineering and Geosynthetics**, Changsha, 2008.11. (In Chinese)

C. Refereed International Conference Proceedings Papers (in English)

1. **HU Liming**, WU Hu, Wen Qingbo. Electro-osmotic consolidation: laboratory tests and numerical simulation. **The 18th International Conference for Soil Mechanics and Geotechnical Engineering, Paris**, France, 2013.09.
2. Tingfa LIU, Hui WU, Qingbo Wen, **Liming HU**. Numerical study of effect of contact condition on the performance of composite liner. **The 5th International Young Geotechnical Engineers' Conference (5IYGEC)**, August, 2013, Paris, France
3. Wu H, **Hu LM**. Analytical and Numerical Model of Electro-osmotic Consolidation for Soft Soil Improvement. **Geo-Congress 2013**, GSP 231, pp. 2114-2123.
4. Meegoda JN, **Hu L**. Centrifugal modeling of soil contamination and remediation. **Keynote Lecture, The 3rd International Conference on Geotechnical Engineering**, ICGE'13, 2013.02, Hammamet, TUNISIA. (Presented by Meegoda)
5. **Hu L**, Wu H, Ding J, Meegoda JN. Experimental Study on Electro-osmotic Consolidation of kaolin clay under intermittent current. **The 3rd International Conference on Geotechnical Engineering**, ICGE'13, 2013.02, Hammamet, TUNISIA.
6. **Liming Hu**, Hengzhen Lee, Jian Wang, Jianting Du. Centrifuge Modeling and Numerical Simulation of Air Sparging Process. **Advanced Materials Research**, v 378-379, p 445-448, 2012, Applied Materials and Electronics Engineering, AMEE 2012, Hong Kong.
7. Jian Wang, **Liming Hu**. Numerical simulation of air flow during air sparging remediation. **Applied Mechanics and Materials**, v 138-189, p 27-32, 2012, Applied Mechanics and Mechanical Engineering II ICAMME2011, Sanya, China.
8. LEE Hengzhen, **HU Liming**. Micro-analysis in Glass Beads with Environmental Scanning Electron Microscopy. **ASCE GeoCongress2012**, California, USA. 1243-1252.
9. WU Hui, **HU Liming**. Experimental Study on Electro-osmotic Consolidation of Expansive Soils. **ASCE GeoCongress2012, California**, USA. 4060-4068.

10. YANG Yating, WEN Qingbo, **HU Liming**. Experimental Study on Application of Industrial Waste in Landfill Liner. **ASCE GeoCongress2012**, California, USA. 3881-3890.
11. WU Hui, **HU Liming**. Theoretical analysis and numerical simulation of vacuum preloading in combination with electro-osmotic consolidation. **ASCE Geotechnical Special Publication**, n 211 GSP, 605-615. **Geo - Frontiers 2011: Advances in Geotechnical Engineering, Proceedings of the Geo - Frontiers 2011 Conference**, March 13–16, 2011 Dallas, TX, USA, Editor(s): Jie Han, Daniel E. Alzamora P.E.
12. GAO Shengyan, MEEGODA Jay N., and **HU Liming**. Microscopic Research on Air Sparging I-Network Model Development. **ASCE Geotechnical Special Publication**, n 211 GSP, 4176-4185. **Geo - Frontiers 2011: Advances in Geotechnical Engineering, Proceedings of the Geo - Frontiers 2011 Conference**, March 13–16, 2011 Dallas, TX, USA, Editor(s): Jie Han, Daniel E. Alzamora P.E.
13. **Liming HU**, Jianting DU, Yan LIU. Physical Modeling of Air-Sparging Process. **Proceedings 2011 World Congress on Engineering and Technology**, pp. 853-856, Oct. 28-Nov.2, 2011, Shanghai, China.
14. Shengyan Gao, Jay N. Meegoda and **Liming Hu**. Geometrical and Topological Characteristics of the Void Space in Random Packing of Equal Size Spheres. **Proceeding of the Engineering Mechanics Institute 2011 Conference**, Boston, 181-191.
15. Meegoda J. N., Gao S, Al-Joulani N., **Liming Hu**. Solid waste and ecological issues of coal to energy. **The third International Conference for Waste Treatment, WasteEng10**, Beijing, China, May 17-20, 2010.
16. Gao SY, Meegoda JN, **Hu LM**. Microscopic research on air sparging – network model development. **The 2nd International Conference on Waste Engineering and Management, ICWEM2010**, Shanghai, China, pp. 828-837, Oct 13-15, 2010.
17. **HU Liming**, WU Xiaofeng, LIU Yan, DU Jianting. Physical modeling of air sparging for groundwater remediation. **Recent Developments of Geotechnical Engineering: Proc. of the 4th Japan-China Geotechnical Symposium**, Japanese Geotechnical Society, ISBN: 978-4-88644-817-0, pp. 110-115, April 12-14, 2010 Japan.
18. **HU Liming**, DU Jianting, WU Xiaofeng, MEEGODA J. N. Centrifuge modeling of air-sparging technique for groundwater remediation. **Environmental Geotechnics for Sustainable Development: Proc. of the 6th International Congress on Environmental Geotechnics**, Tata McGraw Hill, ISBN: 978-0-07-070716-0, pp 854-859, Nov. 2010, India.
19. **Liming HU**, Weiling WU, and Zhaoqun WU. Numerical Simulation of Electro-Osmosis in Soft Clay. **Proc. of Int. Symp. on Geoenvironmental Eng., ISGE2009**, 221-235, Editors Chen YM et al., Zhejiang University Press & Springer-verlag GmbH. Sep 8-10, 2009, Hangzhou, China.
20. Colin JFP Jones, John Lamont-Black, Stephanie Glendinning, Dennes Bergado, Toby Eng, Andy Fourie, **Hu Liming**, Colin Pugh, Martin Romantshuk, Suvi Simpanen and ZhuangYan-Feng. Recent research and applications in the use of electro-kinetic geosynthetics. **Keynote paper, The 4th European Geosynthetics Conference**, Edinburgh UK, Sep 1-3, 2008. (Presented by Jones)
21. **HU Li-ming**, HONG Heqing, WU Weiling. Experimental Study of Electro-Osmosis in Kaolin Clay. **The International Symposium on Geo-Environmental Engineering for Sustainable Development**, Xuzhou, Oct 22-24, 2007.
22. Hong, H.Q. and **Hu, L.M.** Experimental Study of Electro-Osmosis by Reversing Polarity in Kaolin Clay. **The 1st Sri Lankan Geotechnical Society (SLGS) International Conference on Soil and Rock Engineering**, Colombo, August 7-11, 2007.
23. Ding Jinwei, Liu Haixiao, **HU Liming**. Response of marine clay to cyclic loading. **Proceedings of the International Offshore and Polar Engineering Conference**, 2007, 1188-192.
24. N. Yacoubi, Y. Yang, S. Gao, **L. Hu**, B. Ladevie1, A. Nzihou. Stabilization Of Heavy Metals From Contaminated Sediment – Engineering Properties For Valorization, **The International Conference on Geo-environmental Engineering**, London, June 4-5, 2007.

25. **HU Liming**, WU Zhaoqun, XING Weiwei. Centrifuge Modeling and Numerical Simulation of Soil Contamination and Remediation, *The 5th International Congress on Environmental Geotechnics*, June 26-30, 2006, Cardiff, UK.
26. Liu Haixiao, **Hu Liming**. Investigation on Effects of Several Factors That Influence Dynamic Analysis of Seabed-Structure Coupling System. *Proceedings of The Third Chinese-German Trilateral Symposium on Coastal and Ocean Engineering*, Taiwan, China, 2006
27. Jinwei Ding, Haixiao Liu, **Liming Hu**. Mechanical Behavior of Marine Clay under Cyclic Loading. *Recent Development of Geotechnical and Geo-environmental Engineering in Asia, the 4th Asian Joint Symposium on Geotechnical and Geo-Environmental Engineering (JS-Dalian 2006)*, Dalian, China, Nov. 23-25, 2006, pp81-86.
28. **Hu Liming**, Xing Weiwei, Wu Zhaoqun. Constitutive Modeling and Numerical Simulation of Multiphase Flow In Unsaturated Soil. *The 2nd Sino-Japanese Symposium on Geotechnical Engineering*, Oct 2005, Shanghai, China, 243-246.
29. Wen Qingbo, **Hu Liming**. Solid Waste Treatment in China. *The 1st International Conference on Waste Treatment*. May 17 ~21, 2005, Albi, France.
30. Zhang Bingyin, **Hu Liming**, Hao Rongfu, Xing Weiwei. Numerical Analysis on LNAPLs Transport in Unsaturated Soils. *WCCM VI in conjunction with APCOM'04*, Tsinghua University Press & Springer-Verlag, Sept. 5-10, 2004, Beijing, China.
31. **Hu Liming**, Hao Rongfu, Xing Weiwei, Lo Irene M. C., Cheng Xiangsheng. Centrifuge modeling of soil contamination and remediation technology. *International Conference on Geotechnical Engineering* (Shahour Eds.), Beirut, Lebanon, May 19-22, 2004, 905-910.
32. **Liming Hu**, Irene M-C Lo, Xiangsheng Cheng. Centrifuge modeling of LNAPLs transport in soils and remediation technology. *The Sino-Japanese Symposium on Geotechnical Engineering*, Beijing, 2003.10.
33. **Liming Hu**, Jialiu Pu. FEM analysis on phase-II cofferdam of TGP. *The 9th International Conference on Computing in Civil and Building Engineering*, Taipei, Taiwan, 2002.04.
34. **L. M. Hu**, S. Z. Shu, Irene M. C. Lo, J. H. Zhang, N. J. Meegoda, J. L. Pu. Centrifuge Modeling of LNAPLs Migration in Porous Media. *International Conference on Physical Modeling in Geotechnics*, Newfoundland, Canada, 2002.07.
35. **L. M. Hu**, Irene M. C. Lo, S. Z. Shu, N. J. Meegoda. Centrifuge Modeling of Gasoline Transport in Unsaturated Soils. *The 6th International Symposium on Environmental Geotechnology*, Seoul, Korea, 2002.07.
36. Irene M. C. Lo, Jianhong Zhang, **Liming Hu**. Centrifuge Study of Cadmium Migration in Saturated Soils. *International Conference on Physical Modeling in Geotechnics*, Newfoundland, Canada, 2002.
37. Xiaoyun Yang, **Liming Hu**, Irene M C Lo. A large scale test for investigating the movement of gasoline in soil. *The International Symposium on Application of Natural materials for Environmental Geotechnology*, Tokyo, Japan, 2001.09.
38. Irene M-C Lo, Jianhong Zhang, **Liming Hu** and Shanzhi Shu. Geotechnical centrifuge modeling of Cadmium migration in saturated soils. *International Conference on Environmental Concerns and Emerging Abatement Technologies*, Beijing, China, 2001.

D. Peer Reviewed Chinese Journal Papers

1. WU Hui, **HU Liming**. Numerical simulation of electro-osmosis consolidation considering variation of electrical conductivity. *Chinese Journal of Geotechnical Engineering*, 2013, 35(4): 734-738.
2. LIU Tingfa, ZHANG Pengwei, **HU Liming**. Experimental research of copper tailing materials. *Chinese Journal of Geotechnical Engineering*, 2013, 35(S1): 166-169.
3. LIU Tingfa, ZHANG Pengwei, WEN Qingbo, **HU Liming**. Numerical study of performance of anti-seepage liner of modern landfill. *Chinese Journal of Geotechnical Engineering*, 2013, 35(S1): 275-281.

4. YANG Yating, GONG Meng, WEN Qingbo, **HU Liming**. Experimental study on coal gangue applied as anti-seepage and antifouling material. *Chinese Journal of Geotechnical Engineering*, 2013(S1): 282-286.
5. Analytical models of the coupling of vacuum preloading and electro-osmosis consolidation for ground stabilization, *Journal of Tsinghua University*, 2012, 52(2): 182-185.
6. LI Hengzhen, **HU Liming**, WANG Jian, WU Xiaofeng, LIU Peibin. 3D Numerical Simulation of Air Sparging Remediation Process. *Environmental Science*, 2012, 33(5): 1532-1539.
7. Ding Jinwei, **HU Liming**, Zheng Wentang. Study on simple shear tests for marine soft clay. *Geotechnical Investigation and Surveying*, 2012, 10: 22-26.
8. LIU Tingfa, ZHANG Pengwei, **HU Liming**. Numerical Model Study on Working Performance of Seepage-proof Liner in Sanitary Landfill. *Journal of Disaster Prevention and Mitigation Engineering*. 2012, 32(5): 617-623.
9. JIA Hui, WU Xiaofeng, **HU Liming**, LIU Peibin. In situ Experimental Research on Natural Attenuation of Oil Pollutants in a Gas Station. *Environmental Science*, 2012, 33(1): 163-168.
10. LUAN Xu, WU Xiaofeng, **HU Liming**. Simulation of multiple wells system in soil vapor extraction. *China Environmental Science*, 2012, 32(3): 535-540.
11. JIA Hui, WU Xiaofeng, **HU Liming**, LIU Peibin. Confirmatory research on the natural attenuation capacity of oil pollutants based on in-situ experiment. *Environmental Pollution & Control*, 2012, 34(1): 42-47.
12. Zheng Ruihua, Zhang Jianmin, Zhang Ga, **HU Liming**, Du Jianting, Liu Yan. Development of test device with air sparging technique for geotechnical centrifuge and its test. *Experimental Technology and Management*, 2012, 29(7): 60-64.
13. **HU Liming**, LIU Yan, DU Jianting, WU Xiaofeng, LIU Peibin. Centrifuge modeling of air-sparging technique for groundwater remediation. *Chinese Journal of Geotechnical Engineering*, 2011, 33(2): 297-301.
14. **HU Liming**, ZHAO Min, WU zhaoqun, PU Jialiu, ZHENG Ruihua. Centrifuge modeling on safety of sheet pile wall for offshore water intake project. *Rock and Soil Mechanics*, 2011, 32(6): 1741-1747.
15. JIA Hui, WU Xiaofeng, **HU Liming**, LIU Peibin. Research of the Natural Attenuation Capacity of Oil Pollutants Based on in-situ Experiment. *Environmental Science*, 2011, 32(12): 3699-3703.
16. DU Jianting, **HU Liming**. Physical modeling on air sparging technique for groundwater remediation. *China Civil Engineering Journal*, 2011, 44(2): 177-180.
17. **Hu L**, Hong H, Wu W. Electro-osmosis tests on kaolin clay. *Journal of Tsinghua University*, 2010, 50(9): 1353-1356.
18. **Hu L**, Wu W, Wu H. Theoretical analysis and numerical simulation of electroosmosis consolidation for soft clay. *Rock and Soil Mechanics*, 2010, 31(12): 3977-3983.
19. HONG Heqing, **HU Liming**, GLENDINNING S, WU Weiling. Electro-osmosis experiment of soft clay with external loading. *Journal of Tsinghua University*, 2009, 49(6): 825-828.
20. YANG Yuan-yuan, **HU Li-ming**, NZIHOU Ange, YACOUBI Nadia. Laboratory Tests on Valorization Technique of Dredged Sediment, *Rock and Soil Mechanics*, 2009, 30(5): 1323-1327.
21. **HU Liming**, Xing Weiwei, Zhou Xiaowen. Laboratory testing and numerical simulation of multiphase flow in unsaturated soils, *Engineering Mechanics*, 2008, 25(11): 162-166.
22. **Hu Liming**, Ma Jie, Zhang Bingyin. Simple shear test and numerical simulation of interfaces between granular materials. *Rock and Soil Mechanics*, 2008, 29(9), 2319-2322.
23. **HU Liming**, LIU Yi. Physical Modeling of Air-Sparging Technique for Groundwater Remediation. *Chinese Journal of Geotechnical Engineering*, 2008, 30(6): 835-839.
24. **HU Liming**, MA Jie, ZHANG Bingyin. Numerical Simulation of Interface Failure during direct shear tests. *Journal of Tsinghua University*, 2008, 48(6): 943-946.
25. **HU Liming**, Xing Weiwei, Zhou Xiaowen. Laboratory testing and numerical simulation of multiphase flow in unsaturated soils, *Engineering Mechanics*, 2008, 25(11): 162-166.
26. **Hu Liming**, Ma Jie, Zhang Bingyin. Simple shear test and numerical simulation of interfaces

- between granular materials. *Rock and Soil Mechanics*, 2008, 29(9), 2319-2322.
27. **HU Liming**, LIU Yi. Physical Modeling of Air-Sparging Technique for Groundwater Remediation. *Chinese Journal of Geotechnical Engineering*, 2008, 30(6): 835-839.
 28. **HU Liming**, MA Jie, ZHANG Bingyin. Numerical Simulation of Interface Failure during direct shear tests. *Journal of Tsinghua University*, 2008, 48(6): 943-946.
 29. **Hu Liming**, Xing Weiwei, Wu Zhaoqun. Numerical Modeling of NAPL Migration in Porous Media. *Rock and Soil Mechanics*, 2007, 28(5), 951-955.
 30. **Hu, Liming**; Ma, Jie; Zhang, Bingyin; Yu, Yuzhen. Scaling effect on the mechanical behavior of the interface between coarse-grained materials and a structure. *Journal of Tsinghua University*, 2007, 47(3): 327-330.
 31. Ding J, Liu H, **Hu L.** Development of Bender Element System in Geotechnical Testing. *Experimental Technology and Management*, 2007, 24(2): 56-60.
 32. Zeng Xiangwu, **Hu Liming**. Applications of Piezoelectric Sensors in Geotechnical Engineering, *Chinese Journal of Geotechnical Engineering*, 2006, 28(8): 983-988.
 33. XING Weiwei, **HU Liming**. Centrifuge modeling of LNAPL migration. *Journal of Tsinghua University*, 2006, 46(3): 341-345.
 34. Zhang Jianhong, **Hu Liming**. Migration Behavior of Heavy Metal and LNAPLs in Unsaturated Soil. *Chinese Journal of Geotechnical Engineering*, 2006, 28(2): 277-280.
 35. Yu Yuzhen, Xie Liquan, Zhang Bingyin, **Hu Liming**. Influence of weak rock on stress-deformation of auxiliary dam 1 # of Xilongchi upper reservoir. *Journal of Hydroelectric Engineering*, 2006, 15(6): 39-44.
 36. Xing Weiwei, **Hu Liming**, Mu Feng, et al. Image collecting and processing system in centrifuge test. *Experimental Technology and Management*, 2005, 22(2): 37-42.
 37. Hao Rongfu, **Hu Liming**, Xing Weiwei. Centrifuge modelling of removing volatile contaminants in soils. *Rock and soil Mechanics*, 2004, 25(7): 1037-1040.
 38. **Hu, L.**, Hao, R., Yin, K., and Lo, I. M.-C. Experimental Study on BTEX Transport in Subsurface System. *Journal of Tsinghua University*, 2003, 43(11): 1546-1549.
 39. **Hu L.** In Situ Permeable Reactive Barriers for Remediation of Contaminated Groundwater. *Hydraulic and Hydroelectric Technology*, 2003, 34(7):11-13.
 40. **Hu, L.**, Lo, I. M.-C., Pu, J., and Yin, K. Centrifuge modeling of LNAPLs migration in unsaturated soils. *Chinese Journal of Geotechnical Engineering*, 2002, 24(6): 690-694.
 41. **Hu, L.**, and Pu, J. Application of damage interface model for 3-D FEM analysis. *Chinese Journal of Hydraulic Engineering*, 2002, 3: 44-50.
 42. **Hu, L.**, and Pu, J. Damage Model of Soil-Structure Interface. *Rock and Soil Mechanics*, 2002, 23(1): 6-11.
 43. **Hu, L.**, and Pu, J. Application of the damage model to soil interface in Finite Element Analysis. *China Civil Engineering Journal*, 2002, 35(3): 44-50.
 44. Zhang, J., Lo, I. M.-C., and **Hu, L.** Centrifuge modeling of moisture and contaminant migration in unsaturated soils. *Chinese Journal of Geotechnical Engineering*, 2002, 24(5): 622-625.
 45. **Hu, L.**, and Pu, J. Experimental Study on Mechanical Characteristics of Soil-structure Interface. *Chinese Journal of Geotechnical Engineering*, 2001, 23(4): 431-435.
 46. **Hu, L.**, and Pu, J. 3-D FEM analysis on Phase-II cofferdam of Three Gorges Project. *Journal of Tsinghua University*, 2001, 41(4-5): 240-243.
 47. **Hu, L.**, and Lo, I. M.-C., Zhang, J., and Pu, J. Application of Centrifuge Modelling technique in geo-environmental engineering. *Soil and Environmental Science*, 2001, 10(4): 87-91.
 48. **Hu, L.**, and Pu, J. FEM Analysis on Cutoff Walls of Second Stage Cofferdam in TGP. *Hydraulic and Hydroelectric Technology*, 1999, 30(5): 64-66.

E. Books

1. National Natural Science Foundation of China. Development Strategy Research of Hydraulic and Oceanic Engineering, Chapters 1&8, 2011, Science Press, Beijing, China. (In Chinese)

F. Proceedings Edited

1. Hu LM, et al. (Eds): State-of-the-Art in Geomechanics and Geoengineering, 2013, Wuhan University Press, Wuhan, China (In Chinese).
2. Han BP, Hu LM. (Eds). Proceedings of International Symposium on Geo-Environmental Engineering for Sustainable Development, Xuzhou, Oct 22-24, 2007. (In English)
3. Reddish D, Hu L, Stace R. (Eds). Geo-Environmental Engineering, London, UK, IOM press, 2007.05. (In English)
4. Co-Editor, The 9th National Conference on Soil Mechanics and Geotechnical Engineering, October 2003, Beijing, China (In Chinese).

G. Patents

1. HU Liming, SONG Dejun, LI Hengzhen (2012). In-situ groundwater remediation technology using micro-nano bubbles. PCT Patent # PCT/CN2013/000062
2. HU Liming, SONG Dejun, LI Hengzhen (2012). Enhanced groundwater remediation technology using micro-nano bubbles. PCT Patent # PCT/CN2013/000063
3. HU Liming, DING Jinwei, LIU Haixiao (2007). Compute-based bender elements system, Chinese Patent # CN200710063498.6
4. HU Liming, WU Weiling, WU Zhaoqun (2010). A method measuring the hydraulic conductivity of soils based on electro-osmosis. Chinese Patent # CN201010122680.6
5. HU Liming, WU Hui (2011). Bi-directional electro-osmotic consolidation facility. A method measuring the hydraulic conductivity of soils based on electro-osmosis. Chinese Patent# CN201110299860.6.
6. WU Hui, HU Liming, LUO Weitao (2012). A consolidation facility combining vacuum preloading and electro-osmosis. Chinese Patent # 201210006833.0
7. HU Liming, SONG Dejun, LI Hengzhen (2012). In-situ groundwater remediation technology using micro-nano bubbles. Chinese Patent # 201210041283.5
8. HU Liming, SONG Dejun, LI Hengzhen (2012). Enhanced groundwater remediation technology using micro-nano bubbles. Chinese Patent # 201210041355.6
9. HU Liming, LI Hengzhen (2012). Observation system for micro-nano bubbles movement in porous media. Chinese Patent # 201210048560.X
10. LI Hengzhen, HU Liming (2012). Observation system for micro-nano bubbles movement in water. Chinese Patent # 201210048458.X
11. HU Liming, LI Hengzhen, LIU Yan, DU Jianting (2012). Physical modeling system for groundwater air-sparging remediation technology. Chinese Patent # 201210048430.6