SELECTED PUBLICATIONS SELECTED PUBLICATIONS

Author or co-author of more than 200 published research article, with many in top engineering journals. A partial list is shown below.

A. Refereed Chapters in Books

1. Qi, G. Z., Yang, J. C. S., and Amini, F. (1997). "Neural Network for Identification and Control of Civil Engineering Structures", Chapter 7 in a Book entitled <u>Artificial Neural Network for Civil Engineers: Fundamentals and Applications</u>, ASCE, Kartam, Flood, and Garrett, eds, ASCE, New York, N.Y. 92-123.

B. Refereed Journal Papers

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- 3. Aggour, M. S., Taha, M. R., Tawfiq, K. S., and Amini, F. (1989). "Cohesive Soil Behavior under Random Excitation Conditions," <u>Geotechnical Testing Journal, ASTM</u>, June, Vol. 12, No. 2, 135-143.
- 4. Amini, F. (1990). "Dynamic Soil Properties Using Improved Transfer Function Methods," Journal of Soil Dynamics and Earthquake Engineering, Vol. 9, No. 6, November, 274-279.
- 5. Amini, F. (1993). "Effect of Confining Pressure on Dynamic Soil Properties Using Improved Transfer Function Estimators," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, Vol. 12, 145-147.
- 6. Amini, F., (1995). "Time Effects on Dynamic Soil Properties under Random Excitation Conditions," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, Vol. 11, No. 9. pp. 439-443.
- 7. Amini, F. and Smith, R. L. (1995). "Peak Flow Rates and Volumes Predictions Using Frequency Equivalent Hydrographs," <u>Journal of Water Resources</u>, <u>Planning and Management</u>, <u>ASCE</u>, Vol. 121, No. 5, Sept., 359-364.
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- 10. Amini, F., (1995). "Time Effects on Dynamic Soil Properties Under Random Excitation Conditions," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, Vol. 14, No. 6, 439-443.
- 11. Fahoum, K., Aggour, M. S., and Amini, F., (1996). "Dynamic Properties of Cohesive Soils Treated with Lime," <u>Journal of Geotechnical Engineering</u>, ASCE, Vol. 122, No. 5, May, 382-389.
- 12. Khalilian, A. and Amini, F. (1996). "A Case of a Residential Foundation Failure and Preservation by Pressure Grouting," <u>Journal of Performance of Constructed Facilities</u>, ASCE, Vol. 10, No. 4, November, 159-163.
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- 14. Amini, F. (1996). "Effect of Filter Thickness on the Efficiency of Sand Filter Water Quality Structure," Water Quality Research Journal of Canada, Vol. 31, No. 4, Nov., 801-807
- 15. Amini, F. and Khalilian, A. (1997). "Old Post Office Foundation Failure Investigation," <u>Journal of Performance of Constructed Facilities, ASCE</u>, Vol. 11, No. 1, February, 13-17.
- 16. Chen, H. M., Qi, G. Z., Yang, J. C. S., and Amini, F. (1998). "Experimental Study of Active Control Using Neural Network," <u>Journal of Structural Control</u>, Vol. 5, No. 1. 27-43.
- 17. Amini, F. and Truong, H. V. (1998). "Effect of Filter Media Particle Size Distribution on Filtration Efficiency," <u>Water Quality Research Journal of Canada</u>, Vol. 33, No. 4, 589-594.
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- 22. Amini, F., Biddlecome, Rahman, S., and Sharpe, M. (2004). "Liquefaction at Depth Visualization," <u>Environmental Modeling and Simulation</u>, CAT Press, Vol. 2, 151-155.
- 23. Amini, F. & Chakravarty, A. (2004). "Liquefaction Testing of Stratified Sand-Gravel Composites," <u>Geotechnical Testing Journal, ASTM</u>, January, pp. 36-46.
- 24. Amini, F. & Rahman, S. (2008). "A Systematic and Structured Outcome Assessment Plan for a New Engineering Program," <u>International Journal of Engineering Education</u>, Vol. 24, No. 1, 189-199.
- 25. Amini, F. (2008). Discussion of "Sample Preparation of Silts for Liquefaction," by A. S. Bradshaw and C. D. Baxter, <u>Geotechnical Testing Journal</u>, <u>ASTM</u>, Vol. 3, No. 6.
- 26. Chatterjee, J., Amini, F., and Cooley, L. A. (2009). A Comparative Slope Stability Analysis of New Orleans I-Wall Subjected to Hurricane Loading," <u>International Journal of Geotechnical Engineering</u>, Vol. 3, No. 3, 459-467.
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- 28. Shin, H., Chiarito, V., and Amini, F. (2011). "Measurements of Strain Relief in Concrete Cubes with Slot Cutting," <u>Journal of Applied Sciences Research</u>, Vol. 7, No. 5. .215 1-2163.
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- 30. Chatterjee, J., and Amini, F. (2011). "A Comparative Assessment of Slope Stability of New Orleans I-Wall with gap between the Wall and Layered Cohesive Backfill," <u>Geomechanics and Geoengineering, An International Journal</u> Vol. 6, No. 3, pp. 217-225.
- 31. Xu, G., Chatterjee, J., and Amini, F. (2011). "A Comparative Slope Stability Analysis of New Orleans Levee Subjected to Hurricane Loading" <u>Electronic Journal of Geotechnical Engineering</u>, Vol. 16/C, 325-336.
- 32. Amini, F., Xu, Y., and Li, L. (2013). "Two-Dimensional Slope Stability Analysis of Earthen Levee Strengthened by Articulated Concrete Block System under Hurricane Overtopping Flow Conditions." International Journal of Geotechnical Engineering, 7(2). 178-186
- 33. Amini, F., Turnquest, B., and Ahlrich, R. (2012). "Construction Monitoring of Paving Fabrics Systems to Reduce Reflective Cracking." <u>International Journal of Emerging Technology and Advanced Engineering</u>, 2(6): 413-420.

- 34. Rao, X., Li, L., Amini, F., & Tang, H. (2012). "Numerical Study of Combined Wave and Surge Overtopping over RCC Strengthened Levee System Using Smoothed Particle Hydrodynamics Method." Journal of Ocean Eng., 54:101-109.
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- 39. Li, L., Amini, F., Rao, X and Tang, H. (2012). "SPH Modeling of Surge Overflow over RCC Strengthened Levee." International Journal of Oceans Systems Engineering, 2(4): 200-208.
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- 44. Chatterjee, J. and Amini, F. (2013). "A Comparative Slope Stability Analysis of Sheet Pile Supported I-wall in New Orleans, Louisiana with Sheet Pile Penetrating into Sand Layer." <u>Journal of Geomechanics and Geoengineering</u>. DOI: 10.1080/17486025. 2012.726747: 1-7.

- 45. Li, L., Amini, F., Pan, Kuang, C. P., and Briaud, J. (2014). "Erosion Resistance of HPTRM Strengthened Levee from Combined Wave and Surge Overtopping." <u>Journal of Geotechnical and Geological Engineering</u>, Vol. 32, No. 4, 847-957.
- 46. Yuan, S., Li, L. Amini, F., and Tang, H. (2014). "Turbulence Measurement of Combined Wave and Surge Overtopping over a Full Scale HPTRM Strengthened Levee." <u>ASCE Journal of Waterways, Coastal and Ocean Engineering</u>, 140 (4), July/August, 04014014-1 thr. 04014014-15. 10.1061/(ASCE)WW.1943-5460.0000230.
- 47. Zhao, G., Li, L., Li, C., Huan, Z., and Amini, F. (2014). "A Full Contact Flexible Mold for Preparing Sample Based on Microbial Induced Calcite Precipitation Technology," <u>ASTM Geotechnical Testing Journal</u>, Vol. 37, No. 5, Sept., doi: 1520/GTJ20130090. 917-921.
- 48. Li, L., Amini, F., & Wu, J. (2014). Turbulence and Seepage Effect on the Slope Stability of Earthen Levee Strengthened by High Performance Turf Reinforcement Mat, <u>Journal of Geotechnical and Geological Engineering</u>, August, Volume 33, Issue 1 (2015), Page 1-13, DOI: 10.1007/s10706-014-9813-0
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- 52. Yuan, S., Li, L., Amini, F., Tang, H. (2015). Sensitivity of Combined Wave Overtopping and Storm Surge Overflow Response to Variations in Levee Geometry, <u>Journal of Coastal Research</u>, doi: 10.2112/JCOASTRES-D-14-00079.1.
- 53. Pan, Y., Li, L., Amini, F. & Kuang, C. (2015). "Erosion and Failure Mechanism of Earthen Levee Strengthened by Vegetated HPTRM System," <u>Ocean Engineering</u>, 96, 139-148.
- 54. Yuan, S., Tang, H., **Li, L.**, Amini, F., 2015, Combined Wave and Surge Overtopping Erosion Failure Model of HPTRM Levees: Accounting for Grass-Mat Strength, <u>Ocean Engineering</u>, 109, 256-269.
- 55. Li, C., Huang, H., Li, L., Gao, Y., Ma, Y., and Amini, F. (2015). Geotechnical Hazards Assessment on Wind-eroded Desert Embankment in Inner Mongolia Autonomous Region, North China, Natural Hazards, November, 76(1), 235-257, doi: 10.1007/s11069-014-1484-x.

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- 57. Pan, Y., Kuang, C. P. Li, L., & Amini, F. (2015). "Full-Scale Laboratory Study on Distribution of Individual wave Overtopping Volumes over a Levee under Negative Freeboard," Coastal Engineering, Vol. 97, 11-20, http://dx.doi.org/10.1016/j.coastaleng.2014.12.007
- 58. Amini, F., and Li, L., 2015, Slope Stability of an Earthen Levee Strengthened by HPTRM under Turbulent Overtopping Conditions, <u>International Journal of Environmental</u>, <u>Ecological</u>, Geological and Geophysical Engineering, Vol:9, No:5, 2015, 277-280.
- 58. Li, M., **Li, L.**, Ogbonnaya, U., Wen, K., Tian, A., and Amini, F., (2015). Impacts of Randomly Distributed Discrete Fiber on Geomechanical Properties of MICP-treated Sand, <u>Journal of Materials in Civil Engineering</u>, ASCE, DOI: 10.1061/(ASCE)MT.1943-5533.0001442.
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- 61. Li, C., Zhu, W., Li, L., Lu, B, Yao, D., and Amini, F., (2016). "A Study on Dynamic Initiation Mechanism of Debris Flows through Geotechnical Tests," <u>Journal of Mountain Science</u>, DOI: 10.1007/s11629-014-3258-z.
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- 63. Li, C., Yao, D., Wang, Z., Liu, C., Wuliji, N., Yang, L., Li, L., and Amini, F., (2016). Model Test on Rainfall-induced Loess–mudstone Interfacial Landslides in Qingshuihe, China, Environmental Earth Sciences (IF=1.059), 75(9): 835, doi:10.1007/s12665-016-5658-6.
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- 65. Li, L., Wen, K., Li, C. and Amini, F., 2017, FIB/SEM Imaging of Microbial Induced Calcite Precipitation in Sandy Soil. Microscopy and Microanalysis, 23(S1), pp.310-311, doi: 10.1017/S1431927617002239

- 66. Wen, K., Li, L., Li, Y., L, M., Li. C., and Amini, F., 2017, Effects of Multiple MICP Treatment on Sandy Soil with Lower Cementation Media Concentration, <u>Journal of Geotechnical and Geological Engineering.</u>
- 67. Bu, C., Wen, K., Liu, S., Ogbannaya, U., Li, L. and Amini, F., 2017, Development of a Rigid Full Contact Mold for Preparing Bio-Beams through Microbial Induced Calcite Precipitation, Geotechnical Testing Journal, ASTM.
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C. Peer Reviewed Articles in Monographs, Books, and Proceedings

C1. ASCE Publications

- 71. Li, L., M., Ogbonnaya, U., Wen, K. & Amini, F. (2016). "Experimental Investigation of Discrete Randomly Distributed Fiber on the Mechanical Properties of Microbial-Induced Soil Improvement; <u>ASCE Geotechnical Special Publication</u>, No. 269, 52-61, ASCE, Reston, VA 2016.
- 72. Khan, M. S., & Amini, F. (2017). "Rainfall Induced Shallow Slope Failure in Yazoo Clay in Mississippi," <u>ASCE Geotechnical Special Publication</u>, ASCE, Reston, VA 2016.
- 73. Li, L., Li, M., Ogbonnaya, U., Wen, K., Xu, Y., and Amini, F. (2017). Study of a Discrete Randomly Distributed Fiber on the Tensile Strength Improvement of Microbial-Induced Soil Stabilization, Geotechnical Special Publication, No. 280: 12-19, ASCE.
- 74. Wen, K., Li, Y., Li, L., and Amini, F. (2018). Development of a Multiple Treatment Laboratory Method to Enhance Microbial-Induced Soil Stabilization, Proceedings, IFCEE 2018, Orlando, FL, March 5-10, 2018.
- 75. Li, L., M., Ogbonnaya, U., Wen, K. & Amini, F. (2016). "Experimental Investigation of Discrete Randomly Distributed Fiber on the Mechanical Properties of Microbial-Induced Soil Improvement; <u>ASCE Geotechnical Special Publication</u>, No. 268; 52-61. ASCE, Reston, VA 2016.
- 76. Amini, F., Li, I., Yi, P. Yuan, S. (2015). "Failure Mechanism of Earthen Levee Strengthened by Vegetated HPTRM System and Design Guideline for Hurricane

- Overtopping Conditions," <u>ASCE Geotechnical Special Publication</u>, No. 252, 15-157, Reston, VA 2015.
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- 86. Amini, F. (2004). "Dynamic Cone Penetrometer in Quality Control of Compaction, State-of-the Art Report," in <u>Geotechnical Engineering for Transportation Projects</u>, ASCE Special Geotechnical Publication No. 126, ASCE, Reston, VA, 1023-1031.
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- 91. Li, L., and Amini (2017). "Concept of Active Flipped Learning in Engineering Mechanics," <u>Proceedings of the 19th International Conference on Civil, Geomechanical, and Geotechnical Engineering</u>, Zurich, July.
- 92. Amini, F., and Wen, K. (2017). "Effect of Overlay Thickness Field Performance of Paving Fabric Interlayer Systems to Reduce Reflective Cracking," <u>Proceedings of the 19th International Conference on Civil, Geomechanical, and Geotechnical Engineering</u>, Zurich, July 2017.
- 93. Amini, F., Li, L., Wu, J. (2015). "Slope Stability of an Earthen Levee Strengthened by High Performance Turf Reinforcement Mat under turbulent Overtopping Conditions," <u>International Conference on Civil & Building Engineering</u>, Montreal, Canada, May.
- 94. Amini, F. and Li, L., (2013). Sensitivity Analysis of Extended Land-Side Slope to the Erosion Impact in the HPTRM Strengthened Levee, <u>Proceedings, the 23rd International Offshore (Ocean) and Polar Engineering Conference</u>, June 30–July 5, 2013, Anchorage, Alaska, 1217-1222.
- 95. Li, L., Wen, K., Li, C., and Amini, F., (2017). "FIB/SEM Imaging of Microbial Induced Calcite Precipitation in Sandy Soil," Proceedings Microscopy & Microanalysis Proceedings 23 (Suppl 1), 300-305.

- 96. Li, L., and Amini, F., (2017). Concept of the Active Flipped Learning in Engineering Mechanics, International Scholarly and Scientific Research & Innovation, 4(7), 1999.36/75040
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- 98. Khan, M.S., Nobahar, M., Ivoke, J. and Amini, F., (2017). "Rainfall Induced Shallow Slope Failure Over Yazoo Clay In Mississippi", Proc. Pan-AM Unsat 2017, Dallas, Texas.
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- 105. Pan, Y., Li, L., Amini, F. & Kuang, C. (2013). ".Discussion of the Failure Mechanics of Levees under Combined Wave and Surge Overtopping" from the "Proceedings of 2013 IAHR World Congress, June.
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D. Technical Report

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