# SELECTED PUBLICATIONS

Author or co-author of more than 200 published research article, with the vast majority 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

- 2. Amini, F., Tawfiq, K. S., and Aggour, M. S. (1988). "Cohesionless Soil Behavior under Random Excitation Conditions," <u>Journal of Geotechnical Engineering Div., ASCE</u>, 114(8), 896-914. (IF=1.696)
- 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. (IF=0.663)
- 4. Amini, F. (1990). "Dynamic Soil Properties Using Improved Transfer Function Methods," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, 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>, ASCE, Vol. 121, No. 5, Sept., 359-364. (IF=1.53)
- 8. Qi, G. Z., Chen, H. M. Tsai, K. H, Yang, J. C. S., and Amini, F. (1995). "Neural Networks for Structure Control," <u>Journal of Computing in Civil Engineering, ASCE</u>, Vol. 9, No. 2, April, 168-176.

- 9. Qi, G. Z., Chen, H. M. Tsai, K. H., Yang, J. C. S., and Amini, F. (1995). "Neural Network for Structural Dynamic Model Identification," <u>Journal of Engineering Mechanics, ASCE</u>, Vol. 121, No. 12, December. 1377-1381.
- 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, ASCE</u>, Vol. 122, No. 5, May, 382-389. (IF=1.696)
- 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.
- 13. Amini, F., Chen, H. M., Qi, G. Z., and Yang, J. C. S., (1996). "Neural Network Based Active Control Experiments on Model Structure," <u>Structural Control.</u>, Vol. 1, 294-299
- 14. Amini, F. (1996). Discussion of "System Identification and Its Application to Estimating Soil Properties by S. Glaser," <u>Journal of Geotechnical Engineering, ASCE</u>, Vol. 122, No. 10.
- 15. Amini, F. (1996). "Effect of Filter Thickness on the Efficiency of Sand Filter Water Quality Structure," <u>Water Quality Research Journal of Canada</u>, Vol. 31, No. 4, Nov., 801-807
- 16. 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.
- 17. 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.
- 18. 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.
- 19. Amini, F. and Qi, G. Z. (2000). "Liquefaction Testing of Layered Silty Sands," <u>Journal of Geotechnical and Geoenvironmental Engineering</u>, ASCE, Vol. 126, No. 3, 208-217.
- 20. Amini, F. and Sama, K. M. (1999). "Behavior of Stratified Sand-Silt-Gravel Mixtures under Seismic Liquefaction Conditions," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, Vol. 18, No. 6, 445-455.
- 21. Amini, F. (1999). "Effect of Time on Dynamic Properties of Cohesive Soils Using Improved Transfer Function Estimators," <u>Journal of Soil Dynamics and Earthquake Engineering</u>, Vol. 18, No. 6, 457-461.

- 22. Amini, F. (2002). Closure of "Liquefaction Testing of Layered Silty Sands," Discussion by M. Hussein, <u>Journal of Geotechnical and Geoenvironmental Engineering, ASCE</u>, Vol. 128, No. 1,(IF=1.696).
- 23. 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.
- 24. Amini, F. & Chakravarty, A. (2004). "Liquefaction Testing of Stratified Sand-Gravel Composites," <u>Geotechnical Testing Journal, ASTM</u>, January, pp. 36-46.
- 25. 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.
- 26. Amini, F. (2008). Discussion of "Sample Preparation of Silts for Liquefaction," by A. S. Bradshaw and C. D. Baxter, <u>Geotechnical Testing Journal, ASTM</u>, Vol. 3, No. 6. (IF= 0.663)
- 27. 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.
- 28. Chatterjee, J., and Amini, F. (2011). "Slope Stability Analysis of T-Wall Subjected to Hurricanes Loading," <u>International Journal of Geotechnical Engineering</u>, Vol. 5, No. 1. 103-112. (IF=0.77)
- 29. 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.
- 30. Li, L., Peng, B., Santos, F., Li, Y., and Amini, F. (2011). "Groundwater Impacts from Leaching of Coal Combustion Products in Roadways Embankment Construction," <u>Journal</u> of ASTM International, Vol. 8, No. 8, 1-12. (IF=0.423)
- 31. 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</u>, An International Journal Vol. 6, No. 3, pp. 217-225. (IF=0.87)
- 32. 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</u> Engineering, Vol. 16/C, 325-336.
- 33. 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." <u>International Journal of Geotechnical Engineering</u>, 7(2). 178-186
- 34. 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.
- 35. 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." <u>Journal of Ocean Eng.</u>, 54:101-109.
- 36. Xu, Y., Li, L., and Amini, F. (2012). "Slope Stability Analysis of Earthen Levee Strengthened by High Performance Turf Reinforcement Mat under Hurricane Overtopping Flow Conditions." Journal of Geotechnical and Geological Engineering, 30:893-905.
- Pan, Y., Li, L., Amini, F., and Kuang, C. P. (2013). "Comparison of the Hydraulic Performances of Three Levee-Strengthening Systems and Hydraulic Equivalency Analysis between Steady and Intermittent Overtopping." <u>Journal of Waterways, Coastal and Ocean Engineering, ASCE</u>, 139(7), 256-266. (IF=1.53)
- 38. Pan, Y., Li, L., Amini, F., and Kuang, C. P. (2012). "Full Scale HPTRM Strengthened Levee Testing under Combined Wave and Surge Overtopping Conditions: Overtopping Hydraulics, Shear Stress and Erosion Analysis." Journal of Coastal Research, DOI: 10.2112/JCOASTRES-D-12-00010.1., 29(10, 182-200. (IF= 1.017)
- 39. Li, L., Pan, Y., Amini, F., and Kuang, C. P. (2012). "Full Scale Laboratory Study of Combined Wave and Surge Overtopping of a Levee with RCC Strengthening System." Ocean Engineering, 54(1): 70-86.(IF=1.488)
- 40. 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.
- 41. Xu, Y., Li, L., and Amini, F. (2012). "Slope stability Analysis of Earthen Levee Strengthened by Roller-Compacted Concrete under Hurricane Overtopping Flow Conditions." <u>Journal of Geomechanics and Geoengineering</u>, DOI: 10.1080/17486025. 2012.695400: 1-10 (IF=0.87)
- 42. Rao, X., Li, L., Amini, F., and Tang, H. (2012). "SPH Modeling of Combined Wave and Surge Overtopping and Hydraulic Erosion of ACB Strengthened Levee System." <u>Journal of Coastal Research</u>, 28(6):1500-1511. (IF=1.017)
- 43. Yuan, S., Li, L., Amini, F. and Tang, H. (2013). "Shear Stress and Erosion Simulation Over a HPTRM Strengthened Levee under Turbulent Flow Condition." <u>Journal of Coastal</u> Research, 30 (1), January, 142-157. (IF= 1.017)

- 44. Li, L., Amini, F., Rao, X., and Tang, H., (2013). "SPH Study of Surge Overflow and Hydraulic Erosion of Earthen Levee Armored by Articulated Concrete Blocks," <u>Current Development in Oceanography</u>, 6(2): 61-80. (IF=0.675)
- 45. Amini, F., and Li, L. (2013). "Slope Stability of an Earthen Levee Strengthened by Articulated Bloacks, under Hurricane Overtopping Condition," <u>International Journal of Geotechnical Engineering</u>, 7(2), 178-186. (IF=0.77)
- 46. Chatterjee, J. and Amini, F. (2013). "Two-Dimensional 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. (IF= 1.254)
- 47. 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. (IF= 1.254)
- 48. 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. (IF=1.53)
- 49. Zhao, Q., 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. (IF=0.663)
- 50. 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. (IF= 1.254)
- 51. Yuan, S., Li, L., Amini, F., and Tang, H., (2014). "Numerical Study of Turbulence and Erosion of an HPTRM Strengthened Levee under Combined Storm Surge Overflow and Wave Overtopping," <u>Journal of Coastal Research</u>, 30(1): 142-157. (IF=1.017)
- 52. Li, L., Yuan, S., Amini, F. and Tang, H. (2015). "Numerical Study of Combined Wave Overtopping and Storm Surge Overflow of HPTRM Strengthened Levee." <u>Ocean Engineering</u>, 97, 1-11. (IF=1.4888)
- 53. Zhao, Q., Li, L., Li, C., Huan, Z., & Amini, F. (2014). "Factors Effecting Improvement of Engineering Properties of MICP-treated Soil Catalyzed by Bacteria and Urease," <u>Journal of Materials, ASCE</u>, 10.1061/(ASCE)MT.1943-5533.0001013 (Jan. 2, 2014). (IF=1.43)

- 54. 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. (IF=1.017)
- 55. Pan, Y., Li, L., Amini, F. & Kuang, C. (2015). "Overtopping Erosion and Failure Mechanism of Earthen Levee Strengthened by Vegetated HPTRM System," <u>Ocean Engineering</u>, 96, 139-148. (IF=1.4888)
- 56. 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, Ocean Engineering, 109, 256-269. (IF= 1.4888)
- 57. 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. (IF=1.746)
- 58. Amini, F., and Li, L. (2015)., "Slope Stability of an Earthen Levee Strengthened by HPTRM under Turbulent Overtopping Condition," <u>International Journal of Civil & Environmental Engineering</u>, Vol. 9, No. 15, 456-459.
- 59. 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," <u>Coastal Engineering</u>, Vol. 97, 11-20, http://dx.doi.org/10.1016/j.coastaleng.2014.12.007 (IF=2.841) (IF=0.663)
- 60. 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, Geological and Geophysical Engineering</u>, Vol:9, No:5, 2015, 277-280. (IF=1.21)
- 61. 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>, <u>ASCE</u>, DOI: 10.1061/(ASCE)MT.1943-5533.0001442. (IF=1.488)
- 62. Li, L., Rao, X., Amini, F., and Tang, H. (2015). "SPH Modeling of Hydraulics and Erosion of HPTRM Levee," <u>Journal of Advanced Research in Ocean Engineering</u>, Vol.1, No.1, 1-13.
- 63. Yuan, S., Li, L., Tang, H., & Amini, F. (2016). "The Erodibility of HPTRM-Strengthened Earthen Levees Against the Combined Storm Surge Overflow and Wave Overtopping," Journal of Earth Surface Processes and Landforms., under review.

- 64. 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. (IF=1.015)
- 65. Pan, Y., Li, L., Amini, F., Kuang, C.P., and Chen, Y. (2016). "New Understanding on the Distribution of Individual Wave Overtopping Volumes over a Levee under Negative Freeboard," <u>Journal of Coastal Research</u>, 75: 1207-1211. (1.017)
- 66. 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," <u>Environmental Earth Sciences</u> (IF=1.059), 75(9): 835, doi:10.1007/s12665-016-5658-6.
- 67. Li, C., Zhu, W., Li, L., Lu, B, Yao, D., and Amini, F., (2016). "Experimental Analysis for the Dynamic Initiation Mechanism of Debris Flows," <u>Journal of Mountain Science</u> 13(4): 581-592. (IF=1.017)
- 68. Li, L., Wen, K., Li, C. and Amini, F., (2017). "FIB/SEM Imaging of Microbial Induced Calcite Precipitation in Sandy Soil," <u>Microscopy and Microanalysis</u>, 23(S1), pp.310-311, doi: 10.1017/S1431927617002239
- 69. 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>, accepted, in print. (IF=1.254)
- 70. Bu, C., Wen, K., Liu, S., Ogbannaya, U., Li, L. and Amini, F., (2019). "Development of a Rigid Full Contact Mold for Preparing Bio-Beams through Microbial Induced Calcite Precipitation," Geotechnical Testing Journal, ASTM, 42(3):20170148
- 71. Amini, F., and Wen, K. (2017). "Long-Term Field Performance of Paving Fabric Interlayer Systems to reduce Reflective Cracking," <u>International Journal of Civil & Environmental Engineering</u>, Vol. 4, No. 5
- 72. Li, L., and Amini (2017). "Concept of Active Flipped Learning in Engineering Mechanics," <u>International Journal of Geotechnical and Geological Engineering</u>, Vo. 4, No. 7.
- 73. Khan M. S., Nobahar M., Ivoke J., and Amini F. (2019), "Progressive Change in Stability of a Highway Slope Made of Yazoo Clay", Transportation Research Record: <u>Journal of Transportation Research Board</u>, under review.
- 74. Ogbonnaya, U., Wen, K. and Li, L, & Amini, F. (2018). "The Effects of Fine-Grained ontent on Microbial Improved Sandy Materials," <u>Journal of Geomechanical Engineering</u>, in print. (IF= 1.254)

- 75. Wen, K., Li, L., Zhang, R., Li, Y., and Amini, F., (2019). "Microbial Induced Calcite Precipitation in Sands Using FIB/SEM Imaging," <u>Microscopy Today</u>, January, in print.
- 76. Liu, S., Wen, K., Li, L., Armwood, C., Bu, C., Amini, F. (2019). "Enhancement of MICP-Treated Sandy Soils Against Environmental Deterioration," <u>Journal of Materials in Civil Engineering, ASCE</u>, in print
- 77. Huang, W., Wen, K., Li, D., Deng, X., Li, L., and Amini, F. (2019). "Experimental Study of Lateral Unloading Stress Path and Excess Pore Water Pressure on Creep Behavior of Soft Soil," <u>Advances in Civil Engineering</u>, in print.
- 78. Wen, K., Li, Y., Huang, W., Amini, F., and Li, L. (2019). "Mechanical Behaviors of Hydrogel-Treated Sand," <u>Construction and Building Materials</u>, in print.
- 79. Wen, K., Amini, F., and Ahlridge, R. (2019). "Long-term Field Performance of Paving Fabrics on Reduction of Reflective," <u>International Journal of Pavements</u>, in print.
- 80. Liu, S., Wen, K., Li, C., Li, L., and Amini, F. (2019). "Investigation of Nonwoven Geotextiles for Full Contact Flexible Mold Used in Preparation of MICP-Treated Geo material," <u>Journal of Geotextiles and Geomembranes</u>, under review.

## C. Refereed Articles in Monographs, Books, and Proceedings

#### C1. ASCE Peer-Reviewed Publications

- 81. Wen, K., Li, Y., Li, L., and Amini, F. (2018). "Development of a Multiple Treatment Laboratory Method to Enhance Microbial-Induced Soil Stabilization," <u>ASCE Geotechnical Special Publication</u> No. 296, 12-18, ASCE
- 82. 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.
- 83. 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," ASCE Geotechnical Special Publication, No. 280: 12-19, ASCE.
- 84. Li, L., and Amini (2017). "Concept of Active Flipped Learning in Engineering Mechanics," <u>International Scholarly and Scientific Research</u>," Innovation, 4(7), 1999.36/75040.

- 85. 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
- 86. 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.
- 87. 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.
- 88. Li, L., Zhao, Q., Li, C., & Amini, F. (2015). "Development of a Flexible Mold for Bio-Mediated Soil," <u>ASCE Geotechnical Special Publication</u>, ASCE, ASCE, Reston, VA 2015.
- 89. Li, L. Amini, F., Pan, Y., Li, C. (2014). Stability Monitoring of Articulated Concrete Block Strengthened Levee in Combined Wave and Surge Overtopping Conditions, Geo Characterization and Modeling for Stability, ASCE Geotechnical Special Publication, No. 234, 262-271, ASCE, Reston, VA, 2014.
- 90. Li, L., Amini, F. and Yuan S. (2014). Modeling Study of Erosion of HPTRM Strengthened Levee in Turbulent Overtopping Flow Conditions, <u>Geo Characterization and Modeling for Stability</u>, ASCE Geotechnical Special Publication, No. 234, 1052-1061, ASCE, Reston, VA, 2014.
- 91. Amini, F., Li, L. and Xu Y. (2013). "Slope Stability Analysis of Three Innovative Earthen Levee Strengthening Systems under Hurricane Overtopping Flow Conditions." <u>Stability and Performance of Slopes and Embankments</u>, ASCE Geotechnical Special Publication No. 231, ASCE, Reston, VA, 2013.1882-1891.
- 92. Li, L., Amini, F., and Pan, Y. (2013). "Erosion Resistance of Earthen Levee Strengthened by HPTRM System under Combined Wave and Surge Overtopping Conditions." "Stability and Performance of Slopes and Embankments, ASCE Geotechnical Special Publication No. 231, ASCE, Reston, VA, 2013. 1892-1901.
- 93. Chatterjee, J., and Amini, F, (2012). "An Investigation of the Design Criteria for the Analysis of I-wall in New Orleans, Louisiana for Flood Side Gap Condition," <u>State of the Art and Practice in Geotechnical Engineering</u>, ASCE Geotechnical Special Publication No. 225, ASCE, Reston, Virginia. 507-515.
- 94. Li, L., Santos, F., Wei, S., Qian, Z., and Amini, F. (2012), "Evaluation of Fly Ash and Soil Mixtures for Use in Highway Embankments," State of the Art and Practice in Geotechnical

- <u>Engineering</u>, ASCE Geotechnical Special Publication No. 225, ASCE, Reston, Virginia. 3672-3680 507-515.
- 95. Chatterjee, J., and Amini, F, (2011). "An Investigation of Effect of Seepage on the Stability of Sheet Pile Supported I-Wall in New Orleans, Louisiana," <u>Advances in Geotechnical Engineering</u>, ASCE Geotechnical Special Publication No. 211, ASCE, Reston, Virginia. 3536-3545.
- 96. Chatterjee, J., and Amini, F, (2010). "A Comparative Evaluation Unbalanced Loads in the Stability Analysis of T-Walls Subjected to Hurricane Loading," <u>Advances in Analysis, Modeling, and Design</u>, ASCE Geotechnical Special Publication No. 199, ASCE, Reston, Virginia. 2173-2181.
- 97. 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.
- 98. Salami, M., and Amini, F. (2002). "Numerical Model for the Implementation of Discontinuous Deformation Analysis in Finite Element Mesh," In <u>Discrete Element Methods</u>; Numerical Modeling of Discontinua, ASCE, Reston, VA, , 151-154.
- 99. Amini, F. (1995). "A Nonlinear Hydrograph for Volume Predictions," in <u>Water Resources Engineering</u>, ASCE, New York, N.Y., Vol. 1, 1091-1095.
- 100. Rude, L. C. and Amini, F. (1989). "Foundations on Expansive Soils in Northern Virginia," in <u>Foundation Engineering: Current Principles and Practices</u>, Vol. 1, ASCE, New York, N.Y., 209-220.

#### **C2.** Other Peer-Reviewed Publications

- 101. Khan M. S., Nobahar M., Ivoke J., and Amini F. (2018), "Effect of Rainfall on Slope made of Yazoo Clay soil in Mississippi." Proc. 97th Annual Meeting of Transportation Research Board, Washington D.C.
- 102. Li, L., Zhao, Q., Li, C., & Amini, F. (2015). "Development of a Flexible Mold for Bio-Mediated Soil Improvement," Proceedings, Geosynthetics 2015, Portland, Oregon, Feb.
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### **D.** Technical Reports (Partial List)

Author or co-author of more than 70 technical reports. A partial list is shown below. Complete list is available.