

PUBLICATIONS

a) Books already published

b) Chapters in Books already published

1. **Ayininuola, G.M.** and Mustapha, H. (2005): Our Environment and Refuse: Olorunda Local Government Area Osogbo as a case study: In *Environmental Sustainability and Conservation in Nigeria*, Okoko, E., Adekunle, V.A. and S.A. Adeduntan (Editors); ISBN: 978-37981-0-3, Environmental Conservation and Research Team, Federal University of Technology, Akure Nigeria pp 97 – 102 (Nigeria) Percentage Contribution – 75.
2. Franklin, S.O. and **Ayininuola, G.M.** (2012): Influence of the Phreatic Level on the Stability of Earth Embankments: In *Infrastructure Design, Signalling and Security in Railway*, Dr. Xavier Perpinya (Ed.), ISBN: 978-953-51-0448-3, pp 375 - 394. (Croatia) Percentage Contribution – 50.
3. Adekitan, O. A. and **Ayininuola, G. M.** (2018) Calcined Clay-Cement Stabilisation – Physicochemical Attributes and Stabilised Strengths of a-1-a and a-2-6 Soils. In *Calcined Clays for Sustainable Concrete*, Matirena, F., Fairier, A. and Scribeverer, K. (eds). ISBN: 979-94-024-1206-2.

c) Articles that have already appeared in Refereed Conference Proceedings

4. **Ayininuola, G.M.** and Moody, T.T. (2011) Brine influence on cement stabilized bricks compressive strength. *Proceeding of Civil 2011 Failure Menace 3rd Annual Conference held at University of Ilorin*, July 6 to 9, 2011. Pp 94 – 99 (Nigeria).
5. **Ayininuola, G.M.** and Agbede, O.A. (2012) Development of predictive model for investigating effect of sodium chloride on soil geotechnical properties. *Proceeding of the IASTED Int. Conf. Modelling and Simulation (AfricaMS 2012) September 3 to 5, 2012 Gaborone*. pp 126 – 132 (Botswana).
6. **Ayininuola, G.M.** and Denloye, A.O. (2014) Influence of Bone Ash on Soil California bearing ratio. *Proceeding of the SRIC International Conference On Emerging Trends For Sustainable Development And Human Capacity Building In The Third World Nations ICETSDHCB, held at the University of Ghana*, May 28 – 31, pp 572 – 574 (Ghana).
7. **Ayininuola G.M.** and Kwashima O.F. (2015) Effect of Diesel Oil Contamination on Soil Natural Recharge of Groundwater. *Proceeding of 2nd International Conference on Geological and Civil Engineering held at Flora Grand Hotel in Dubai UAE*. January 10 – 11, 2015, pp 43 – 46. (UAE).
8. **Ayininuola G.M.** (2015) Enhancement of Soil Particles Binding Energy Using Terassil Solution. *Proceedings of 1st Faculty of Technology Conference, held at Conference Centre University of Ibadan, Nigeria*, July 6 – 8 2015, Pp 228 – 231.
9. **Ayininuola, G. M.** Akinyemi, T. S. and Adekitan, O. A. (2017) Potentials of cement=blast furnace slag mixture on compaction characteristics and California bearing ratio. *Proceedings of the OAU Faculty of Technology Conference 2017*, pp. 23 – 30.
10. Adekitan, O. S. and **Ayininuola, G. M.** (2017) Potentials of calcined clay as cement supplement in lateritic soil stabilization. *Proceedings of the OAU Faculty of Technology Conference 2017*, pp. 52 – 57.

11. **Ayininuola, G. M.** and Moshood, M. O. (2018) Utilisation of Animal Hair Fibre for Soil Stabilisation. Proceeding of the 2018 International Conference on STEM: A driven force for Sustainable Development COLENG 2018 at Federal University Agriculture, Abeokuta. Pp. 513 – 518.
12. **Ayininuola, G.M.**, Balogun, L.A. and Busari, T.A. (2019) Effect of Cassava Effluent On the Geotechnical Properties of Soil. Proceeding – 6th Putrajaya International Built Environment, Technology and Engineering Conference (PIBEC6), 15 – 16 April 2019. Bangi Resort Hotel, Bangi, Malaysia. Pp. 41 - 49.
13. Adeniji A. A., **Ayininuola G. M.**, Ajanaku O. J. (2019) Comparative Analysis of Portland Lime Cement (PLC) Sourced From Different Production Brands in Nigeria and Its Concrete Properties. Proceedings of the 2019 Civil Engineering Conference on Sustainable Construction for National Development, University of Ibadan, Nigeria, 10 - 12 July 2019. Pp 81 – 87.
14. Yabefa, B. E., Olutoge, F. A. and **Ayininuola, G.M.** (2019) Influence of Sodium Silicate to Sodium Hydroxide Ratio on Compressive Strength of Periwinkle Shell Ash Based Geopolymer Mortar. Proceedings of the 2019 Civil Engineering Conference on Sustainable Construction for National Development, University of Ibadan, Nigeria, 10 - 12 July 2019. Pp 124 – 133.
15. Buari, T.A., Olutoge, F.A., **Ayinnuola, G.M.** (2020) Relationship between Compressive Strength and Modulus of Elasticity of self-Consolidating High-Performance Concrete (SCHPCS) Incorporating GSA as GSM. The Int. Conf. on Emerging Trends in Engineering and Technology (IConETech 2020) Faculty of Engineering, The UWI, St Augustine, June 1 – 5, 2020. Pp. 420 – 440.

d) Patent

e) Articles that have already appeared in learned journals

16. **Ayininuola, G.M.** and Olalusi, O.O. (2004) Assessment of Building Failures in Nigeria: Lagos and Ibadan case study. *African Journal of Science and Technology*, Vol. 5. No. 1, 73 - 78. (Kenya).
17. **Ayininuola, G.M.** and Popoola, M.O. (2004) Physical and Chemical Hazards of Solid Wastes: Ibadan North as case study. *Journal of Civil Engineering Research and Practice* Vol.1. No.2, 17 - 26. (Kenya).
18. Franklin, S.O. and **Ayininuola, G.M.** (2006) Development of Stability Charts for Homogeneous sloped Soil. *Botswana Journal of Technology, University of Botswana*, Vol. 15. No 2, 5 - 14. (Botswana).
19. **Ayininuola, G.M.** and Muibi, M.A. (2008) An Engineering Approach to Solid Waste Collection System: Ibadan North as a case study. *Waste Management*, Vol. 28. 1681 – 1687 (USA).
20. **Ayininuola, G.M.** (2009) Variability in Geochemical Properties of Termitaria: University of Ibadan case study. *Pacific Journal of Science and Technology*, Vol. 10. No.1, 567 - 572 (USA).
21. **Ayininuola, G.M.**, Agbede, O.A. and Franklin, S.O. (2009) Influence of Calcium Sulphate on subsoil cohesion and angle of friction. *Journal of Applied Sciences Research*, Vol. 5. No. 3, 297 – 304. (USA).
22. **Ayininuola, G.M.** (2009) Water quality effect on concrete compressive strength: Ogunpa stream water case study. *Civil Engineering Horizon*.

Link: <http://horizon.webinfolist.com/materials/2009/ayininoula/ogunpa.htm>
(USA).

23. **Ayininuola, G.M.** (2009) Influence of diesel oil and bitumen on compressive strength of Concrete. *Journal of Civil Engineering IEB*, Vol. 37, No. 1, 65 – 71 (Bangladesh).
24. **Ayininuola, G.M.** and Agbede, O.A. (2009) Influence of Sodium Chloride on subgrade soil California bearing ratio. *Pacific Journal of Science and Technology*. Vol. 10. No.1, 573 - 580 (USA).
25. **Ayininuola, G.M.** and Franklin, S.O. (2010) A Generalized Method of analyzing Stability of sloped soils. *Journal of Applied Sciences Research*, Vol. 6, No.11, 1771- 1780 (USA).
26. **Ayininuola, G.M.** and Ojo, O.M. (2010) Wastewater recycling: University of Ibadan a case study. *International Journal of Environmental Issues, Development Universal Consort*, Vol. 7, 22 – 35 (Nigeria).
27. Franklin, S.O. and **Ayininuola, G.M.** (2010) Stability Tables for Sloped Soils using Simplified Approach. *Journal of Applied Sciences Research*, Vol. 6, No. 11, 1871-1879 (USA).
28. **Ayininuola, G.M.** and Agbede, O.A. (2012) Effect of brine intrusion on soil bearing capacity. *Ozean Journal of Applied Science*, Vol. 5, No. 3, 200 – 208 (Turkey).
29. **Ayininuola, G.M.** and Agbede, O.A. (2013) Influence of Inorganic Salts on Soil Liquid and Plastic Limits. *Civil Engineering Dimension* Vol. 15, No. 1, 51 – 60 (Indonesia).
30. Oyegbile, O.B and **Ayininuola, G.M.** (2013) Laboratory Studies on the Influence of Crude Oil Spillage on Lateritic Soil Shear Strength: A Case Study of Niger Delta Area of Nigeria. *Journal of Earth Sciences and Geotechnical Engineering*, Vol. 3, No. 2, 73-83 (UK).
31. **Ayininuola, G.M.** and Olaosebikan, O.I. (2013) Influence of Rice Husk Ash on Soil Permeability. *Transnational Journal of Science and Technology*, Vol. 3, No. 10, 29 – 33 (Turkey).
32. **Ayininuola, G.M.** and Oyedemi, O.P. (2013) Impact of Hardwood and Softwood Ashes on Soil Geotechnical Properties. *Transnational Journal of Science and Technology*, Vol. 3, No. 10, 1 – 7 (Turkey).
33. **Ayininuola, G.M.** and Sogunro, A.O. (2013) Bone ash Impact on Soil Shear Strength”. *International Journal of Environmental, Earth Science and Engineering, World Academy of Science and Technology*. Vol. 7, No. 11, 330 – 334 (USA).
34. **Ayininuola, G.M.** and Oladeji, O.S. (2013) Nylon Solution as Soil Stabilizer”. *International Journal of Environmental, Earth Science and Engineering, World Academy of Science and Technology*. Vol. 7, No. 11, 108 – 110 (USA).
35. **Ayininuola, G.M.** (2014) Decomposed Solid Waste Impact on Soil Shear Strength and California Bearing ratio. *IOSR Journal of Mechanical and Civil Engineering*, Vol. 11. No. 3, 15 – 17 May – June 2014 (USA).
36. **Ayininuola, G.M.** (2014) Termite Social Insect Impact on Soil Geotechnical Properties. *IOSR Journal of Mechanical and Civil Engineering*, Vol 11 No. 3, pp 18 – 20 May – June 2014 (USA).

- 37 **Ayininuola, G.M.** and Agbede, O.A. (2014) Sodium and Calcium Salts Impact on Soil Permeability. *Journal of Earth Sciences and Geotechnical Engineering*, Vol. 4, No. 3, 37 – 45 (UK).
- 38 Kazeem K. Adewole, **Gbenga. M. Ayininuola**, Wasiu O. Ajagbe, Olabisi Akinade (2014) Effect of the Portland-Limestone Cement Grades on the Compressive Strength of Hollow Sandcrete Blocks. World Academy of Science, Engineering and Technology *International Journal of Civil and Environmental Engineering*, Vol:8, No:6, pp 762 - 766.
- 39 **Ayininuola G.M.** and Ayodeji, I.O. (2016) Influence of Sludge Ash on Soil Shear Strength. *Journal of Civil Engineering Research*, Scientific and Academic Publishing. Vol. 6, No. 3, 72 – 77. (USA).
- 40 **Ayininuola, G.M.** and Oladotun, P.O. (2016) Geotechnical Properties of Coconut Coir Fibre. *Journal of Civil Engineering Research*, Scientific and Academic Publishing. Vol. 6, No. 4, 79 – 85.
- 41 **Ayininuola, G.M.** and Akinniyi, B.D. (2016) Bone Ash Influence on Soil Consolidation. *Malaysian Journal of Civil Engineering*, 28(3):407 – 422.
- 42 **Ayininuola, G.M.** and Adekitan, O. A. (2016) Characterisation of Ajebo kaolinite Clay for production of Natural Pozzolan, *International Journal of Civil, Environmental, Structural, construction and architectural Engineering*, World Academic of Science, 10(9): 1222 – 1229
- 43 Adekitan, O. A. and **Ayininuola, G.M.** (2017) Optimizing the thermal treatment of Abeokuta kaolin (south-west Nigeria) for production of natural pozzolan. *African Journal of Science, Technology, Innovation and Development*, Taylor and Francis, 7: 361 -365.
- 44 **Ayininuola, G. M.** and Adekitan, O. A. (2017) Compaction Characteristics of lateritic soils stabilised with cement-calcined clay blends. *Journal of Silicate Based and Composite Materials*, 69(2):34 – 39.
- 45 **Ayininuola, G. M.** and Fadele, O. (2017) Stabilising sandy soil using reworked earth material. *Journal of Environmental and Earth Science*, 7(3): 75 - 79.
- 46 **Ayininuola, G. M.** and Abidoeye, S. P. (2018) Soil Stabilisation Using Bitumen Emulsion and Cement Combination as Additive. *Journal of Earth Science and Engineering*, 8:66 – 74.
- 47 **Ayininuola, G. M.** and Udoh, E. G. (2018) Geotechnical Properties of Flax fiber stabilized Soil. *Journal of Earth Science and Engineering*, 8: 75 – 82.
- 48 **Ayininuola, G. M.** and Afolayan, O. D. (2018) Potential of Oyster Shell Ash Activated with Cement as Soil Stabilizer for Road Construction, *International Journal of Engineering and Advanced Technology*, 8(5): 118 – 126.
- 49 **Ayininuola, G. M.** and Balogun, L. O. (2018) Investigation of Glass Fiber Potential in Soil Stabilisation, *International Journal of Engineering and Advanced Technology* 8(5): 113 – 117.
- 50 **Ayininuola, G.M.**, Salami, M.O., Salami, L.O. (2018) Investigating the Geotechnical Properties of Clay-Gravel Mixtures. *International Research Journal of Advanced Engineering and Science*, Volume 4, Issue 1, pp. 40 - 41.
- 51 Buari T.A., **Ayininuola G. M.**, Agbede O. A. and Esan M.T (2019) Effects of varying Recycled Glass and Groundnut Shell Ash on Strength and durability Properties of Self Consolidating High-Performance Concretes (SCHPC).

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52. Buari, T.A., Olutoge, F.A., **Ayininuola, G.M.**, Okeyinka, O.M. and Adeleke, J.S. (2019) Short term durability study of groundnut shell ash blended self-consolidating high-performance concrete in sulphate and acid environments. *Asian Journal of Civil Engineering*, Vol. 20 Issue 5, pp. 627 -636.
53. Oriyomi M Okeyinka, David A Oloke, Waris A Adebisi, **Gbenga M Ayininuola** (2019) Investigation into the applicability of brewery sludge residue-ash as a base material for geopolymer concrete, *Construction and Building Materials*, Elsevier, vol. 223, pp. 28 – 32.
54. Buari, T.A., Olutoge, F.A., **Ayininuola, G.M.** Okeyinka, O.M. and Adeleke, J.S. (2019) Short-term durability study of groundnut shell ash blended self-consolidating high-performance concrete in sulphate and acid environments. *Asian Journal of Civil Engineering* (2019) 20:649 - 658.
55. Tijani, M.A., Ajagbe, W.O., **Ayininuola, G.M.**, Dahunsi, B.I.O. and Agbede, O.A. (2020). Compressive Strength of Concrete Using Sorghum Husk Ash and Calcium Chloride. *UI Journal of Civil Engineering and Technology*, vol. 2(1), pp 36 – 42.
56. TA Buari, JS Adeleke, FA Olutoge, **GM Ayininuola**, BIO Dahunsi (2023) Approximation of elasticity modulus of groundnut shell ash-based self-consolidating high-performance concrete using an artificial neural network. *Asian Journal of Civil Engineering*, vol. 24 (4): 947-958.
57. **Ayininuola, G.M.** and Bajomo, O.S. (2023) Utilization of Crude Oil-Contaminated Soil as a Foundation Base for Structures (Road and Buildings in the Oil-Polluted Region). *LAUTECH Journal of Civil Engineering*, vol. 11(1): 76 – 84.
58. Odunuga, S.A. and Ayininuola, G.M. (2025) Settlement Characteristics of Expansive Soils Stabilised with Agricultural Waste Using Corn-Cob Ash. *Digital Innovations and Contemporary Research in Science, Engineering and Technology*, Vol 13(1): 35 – 60.
59. Akolade A. S., **Ayininuola G. M.** and Ogunjobi A. A. (2025) Microbial Treatment of Soil Using Calcite-Inducing Bacteria: Impact on Specific Gravity. *Journal of Architecture and Civil Engineering* vol.10(6): 15-24.
60. Akolade A. S., **Ayininuola G. M.** and Ogunjobi A. A. (2025). Influence of Soil Microbial Inoculation on the Cohesion of Soil. *International Journal of Engineering Research and Development*, vol. 21(6): 45 – 54.
61. Ajayi, O. E., **Ayininuola, G. M.** and Hassan, D. E. (2025) Utilization of Steel Slag in Cement Stabilised Lateritic Soil for Sustainable Road Construction. *Journal of Scientific and Engineering Research* vol. 12(9): 1 – 9.
62. Oyelayo, T. E., **Ayininuola, G. M.** And Adetunji, O. I. (2025). Investigation Of Plate Load Test In Soil Stabilisation Using Stone Columns, Case Study: Owode Elede, Lagos State, Nigeria. *International Journal of Earth Design and Innovation Research* Vol. 10(4): 129 – 138.
63. Adeleye, A. M., Ayininuola, G. M. and Ogundiran, M. B. (2025). Characterisation of Nigerian Mining Waste Clays as Sustainable Precursors for Production of Low-Carbon Geopolymer Binders. *International Journal of Earth Design and Innovation Research*, Vol. 10: 1 – 26. DOI: <https://doi.org/10.21203/rs.3.rs-7214593/v1>.

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