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**Publications:**

1. Surya muthukumar, sreevalsa Kolathayar, Asvitha Valli, **Dhanya Sathyan**(2020), Pseudostatic analysis of soil nailed vertical wall for composite Failure, Geo mechanics and Geo Engineering,DOI:10.1080/17486025.2020.1827163
2. S.Sharook, **Dhanya Sathyan**, K. M.Mini (2020), Thermo-mechanical & durability properties of expanded perlite aggregate foam concrete, Construction Materials, Proceedings of the Institution of Civil Engineers 1-36
3. Manisha Vasumithran, K.B.Anand, **Dhanya Sathyan** (2020), "Effects of fillers on the properties of cement grouts" Construction and Building Materials 246 (2020) 118346
4. Bhagyasree raj, **Dhanya Sathyan**, Mini K Madhavan, Amritha Raj(2020), "Mechanical and durability properties of hybrid fiber reinforced foam concrete" Construction and Building Materials 245 (2020) 118373
5. G. Kottukappalli Febin, A. Abhirami, A.K. Vineetha, V. Manisha, R. Ramkrishnan , **Dhanya Sathyan**,K.M. Mini(2019) "Strength and durability properties of quarry dust powder incorporated concrete blocks" Construction and Building Materials 228,116793- 116801.
6. Aravind N R, **Dhanya Sathyan**, K M Mini (2019), "Rice husk incorporated foam concrete wall panels as a thermal insulating material in building" , Indoor and built environment, DOI: 10.1177/1420326X19862017.
7. Amritha Raj, **Dhanya Sathyan**, K M Mini (2019), "Physical and Functional Characteristics

- of Foam Concrete: A Review”, *Construction and Building materials*, 221, 787–799.
8. **Dhanya Sathyan**, Anand, K.B. (2019). “Influence of superplasticizer family on the durability characteristics of fly ash incorporated cement concrete.” *Construction and Building materials*, 204, 864–874.
  9. **Dhanya Sathyan**, K B Anand , Aravind J Prakash and Pemjith B (2018), “Modeling of fresh and hardened stage properties of self compacting concrete using random kitchen sink algorithm”, *International journal of concrete structures and materials*, Springer, DOI 10.1186/s40069-018-0246-7.
  10. **Dhanya Sathyan**, Anand, K.B. and Sindu Menon, M. (2018). “Temperature influence on rheology of superplasticized pozzolana cement and modeling using random kitchen sink algorithm.” *Journal of materials in civil engineering*, ASCE, DOI: 10.1061/(ASCE) MT.1943-5533.00
  11. Sindhu Menon.M, **Dhanya Sathyan**, and K.B.Anand (2017), “Studies on Rheological Properties of Superplasticised PPC Paste, *International Journal of Civil Engineering and Technology*. Volume 8, Issue 10, pp 939–947.
  12. **Dhanya Sathyan**, K.B.Anand and K.M.Mini (2016), “Experimental Study on Portland Pozzolana Cement-Superplasticiser compatibility in mortar”, *International journal of earth science and engineering*, Vol. 09, No.02, PP 539-544.
  13. Jagan, D., Shankar, V., Mahalingam, T. S., Dhanya Sathyan., Mini, K. M., & Sahai, G. (2020, June). Experimental investigation on strength properties of poly-propylene fibre reinforced concrete. In *IOP Conference Series: Materials Science and Engineering* (Vol. 872, No. 1, p. 012150). IOP Publishing.
  14. Lakshan, R, Rosini, A, Sathiyar, K, Dhanya Sathyan, Mini, K M , Gangadharan, D. (2020). Comparison of different dosages of PCM incorporated wallpanels. *IOP Conference Series: Materials Science and Engineering*. 872. 012119. DOI:10.1088/1757-899X/872/1/012119.
  15. Kiran, V. K., Sathyan, D., Anand, K. B., & Devi, P. R. (2020, June). Strength and durability properties (effect of salts) of internal curing concrete. In *IOP Conference Series: Materials Science and Engineering* (Vol. 872, No. 1, p. 012115). IOP Publishing.
  16. Dhanya Sathyan, K B Anand, K M Mini and Aparna S (2018), “Optimization of superplasticizer in portland pozzolana cement mortar and concrete”, *IOP conference series*, Volume 310, DOI:10.1088/1757-899X/310/1/012036.
  17. Dhanya Sathyan, K B Anand, Chinnu Jose and Aravind N R (2018), “Modelling the mini slump spread of superplasticized PPC paste using RLS with the application of random kitchen sink”, *IOP conference series*, Volume 310. DOI:10.1088/1757-899X/310/1/012035.
  18. Aravind J Prakash , Dhanya Sathyan, K B Anand and Aravind N R (2018) , “Comparison of ANN and RKS approaches to model SCC strength, *IOP conference series*, Volume 310. DOI:10.1088/1757-899X/310/1/012037.
  19. Ananthkumar M, Dhanya Sathyan, Prabha S(2018), “Study on Effectiveness of Processed and Unprocessed Black liquor pulps in improving the properties of PPC mortar, Concrete and SCC, *Material today proceeding*. IOP Conf. Series: Materials Science and Engineering 310, 012038 doi:10.1088/1757-899X/310/1/012038
  20. Manomi N, Dhanya Sathyan , K B Anand (2018), “Coupled effect of superplasticizer dosage and fly ash content on strength and durability of concrete”, *Material today proceeding*.

5(11), Part 3, 2018, Pages 24033-2404

21. Aparna S, Dhanya Sathyan and K B Anand (2018), "Microstructural and rate of water absorption study on fly-ash incorporated cement mortar", Material today proceeding Volume 5, Issue 11, Part 3, Pages 23692-23701
22. Rojin C Robert, Dhanya Sathyan , K B Anand (2018), "Effect of superplasticizers on the rheological properties of fly ash incorporated cement paste", Material today proceeding, Volume 5, Issue 11, Part 3, 2018, Pages 23955-23963
23. Suganya M, Dhanya Sathyan,Mini KM (2018) , "Performance of concrete using waste fiber reinforced polymer powder as a partial replacement for fine aggregate", Material today proceeding, Volume 5, Issue 11, Part 3, Pages 24114-24123
24. Febin G Kottukappalli, Ramkrishnan R,Mini K M (2018), Dhanya Sathyan, "Strength properties of concrete blocks with quarry sludge as partial replacement to fine aggregate", Material today proceeding, Volume 5, Issue 11, Part 3, Pages 23733-23742
25. Praveen karthick, Dhanya Sathyan, Mini KM, (2016) "Study on performance of concrete with over-burnt bricks aggregates and micro-silica admixture", IOP Conf. Series: Materials Science and Engineering 149 (2016) 012061 doi:10.1088/1757-899X/149/1/012061
26. Dhanya Sathyan, Aravind (2016), " Prediction of passing ability of SCC: Regularized least squares approach", Proceedings of International conference on Emerging and Sustainable Technologies for infra structure systems on April 22-23.
27. Dhanya Sathyan, Chinnu jose (2016), "Modelling marsh cone flow time of Super Plasticized Portland Pozzolana Cement paste using RLS with the application of RKS", Proceedings of International conference on Emerging and Sustainable Technologies for infra structure systems on April 22-23.
28. Dhanya Sathyan ,Sindhu M (2016), " Rheological properties of superplasticized portland pozzolana cement paste", Proceedings of International conference on Emerging and Sustainable Technologies for infra structure systems on April 22-23.
29. Dhanya Sathyan(2014), "Study on the Effect of Superplasticisers on Workability of Portland Pozzolana Cement Mortar", International Conference on Innovations and Advances in Civil Engineering Towards Green And Sustainable Systems. April, 2014, 28-30.
30. Dhanya Sathyan and K.M Mini(2016), "Study on performance of concrete with over-burnt bricks aggregates and micro-silica admixture", Proceedings of International conference on Emerging and Sustainable Technologies for infra structure systems on April 22-23.