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#### **Journals Published (National)**

1. Nirmalkumar K & Sivakumar V., 'Assessment of Strength Properties of Concrete by Replacing Potable Water with Tannery and Textile Effluents', National Environment Pollution & Technology, Vol. 6, No. 4, pp 699-702, 2007.
2. Nirmalkumar K & Sivakumar V., 'Impact of Chemical Admixtures on Reused Treated Industrial Effluent in Construction Industry', Nandhini Engineering Journal, Vol. 15, Issue 4, pp 23, 2008.
3. Nirmalkumar K & Sivakumar V., 'Durability Studies on Concrete by Using Tannery and Textile Effluents', Indian Journal of Environmental Science and Technology, Vol.No.2, pp 14-19, 2008.
4. Bharath R & Nirmalkumar K., 'Material Wastage Management in Construction Projects', Journal of Progress in Civil Engineering, Vol. 1, No. 1, pp. 13-17, 2013.
5. Bharath R & Nirmalkumar K., 'Risk Management in Construction Project', Journal of Progress in Civil Engineering, Vol. 1, No. 1, pp. 43-47, 2013.
6. Boopathi Y & Nirmalkumar K., 'Flexural Behavior of Reinforced Steel Slag Concrete Beam by Finite Element Analysis', Journal of Progress in Civil Engineering, Vol. 1, No. 2, pp. 45-52, 2013.
7. Sindhu S & Nirmalkumar K., 'Study on Inventory Management System in Construction Industries', Journal of Progress in Civil Engineering, Vol. 1, No. 2, pp. 53-66, 2013.
8. Yazhini K & Nirmalkumar K (2019), 'Engineering Effects of Metakaolin on Concrete – A Review Paper', Journal of Advances in Civil Engineering and Management, Vol. 02, Issue: 01, March 2019, pp. 1-3.
9. Bhuvaneswari N & Nirmalkumar K (2019), 'Engineering Effects of Steel Slag in Concrete and Weld Slag in Concrete- A Review Paper', Journal of Advances in Civil Engineering and Management, Vol. 02, Issue: 01, March 2019, pp. 1-5.
10. Yazhini K & Nirmalkumar K (2019), 'Review on the Durability Characteristics of Metakaolin in Concrete – A Review Paper', Journal of Building Construction, Vol. 1, Issue 1, March 2019, pp. 1-3.
11. Bhuvaneswari N & Nirmalkumar K (2019), 'Investigation of the Behaviour of Steel Slag in Concrete and Weld Slag in Concrete - A Review Paper', Journal of Building Construction, Vol. 06, Issue: 02, Feb. 2019, pp. 260-263.

#### **Journals Published (International)**

1. Nirmalkumar K & Sivakumar V., 'Experimental Studies on Durability of Concrete Using Textile Effluent', International Journal of Civil Engineering Research and Practice, Vol. 5, No.1, pp 29-42, 2008.
2. Nirmalkumar K & Sivakumar V., 'A Study on the Durability Impact of Concrete by Using Recycled Waste Water', JIPC Journal, Vol. 24(1), pp. 17-22, 2008.
3. Nirmalkumar K & Sivakumar V., 'Corrosion Studies on Concrete Using Treated and Untreated Textile Effluent and Impact of Corrosion Inhibitor', Journal of Sustainable Development, Vol. 1, No. 3, pp. 68-72, 2008.
4. Nirmalkumar K & Sivakumar V., 'Acid Resistance Behavior of Concrete made using Untreated and Treated Tannery Effluent', Journal of Modern Applied Science, Vol. 3, No. 1, pp. 139-143, 2009.

5. Nirmalkumar K., 'Studies on the Blended Concrete Prepared with Tannery Effluent', Journal of World Academy of Science, Engineering and Technology, Vol. 7, pp 512-515, 2013.
6. Sindhu S, Nirmalkumar K & Krishnamoorthy V., 'Performance Analysis of Inventory Management System in Construction Industries in India ', Journal of Innovative Research in Science, Engineering & Technology, Vol. 3, No. 4, pp. 11488-11493, 2014.
7. Velumani M & Nirmalkumar K., 'Feasibility Studies of Copper Slag as Fine Aggregate Replacement in Concrete', Journal of Pollution Research' Vol. 33, No. 1, pp. 17-21, 2014.
8. Sangeetha Raj K & Nirmalkumar K ., 'Study on the Effectiveness of FRP Wraps in Arresting Corrosion of Reinforced Concrete Structures', Journal of Engineering Research and Management Technology, Vol. 1, No. 4, pp. 189-194, 2014.
9. Soundharya S & Nirmalkumar K ., 'Study on the Effect of Calcite-Precipitating Bacteria on Self Healing Mechanism of Concrete', Journal of Engineering Research and Management Technology, Vol. 1, No. 4, pp. 202-207, 2014.
10. Velumani M & Nirmalkumar K., 'Workability and Mechanical Performance of Concrete with Copper Slag', International Journal of Earth Sciences and Engineering, Vol. 7, No. 3, pp. 1216-1222, 2014.
11. Sangeetha Raj K & Nirmalkumar K., ' Application of FRP wraps in arresting Corrosion of Steel Structures', International Journal of Engineering Science Invention Research & Development, Vol. 1, No. 3, pp. 129-134, 2014.
12. Soundharya S & Nirmalkumar K., 'Strength Improvement Studies on Self-Healing Characteristics of Bacterial Concrete', International Journal of Engineering Science Invention Research & Development, Vol. 1, No. 4, pp. 162-167, 2014.
13. Dhanalaxmi C & Nirmalkumar K., 'Study on the Properties of Concrete Incorporated With Various Mineral Admixtures – Limestone Powder and Marble Powder', International Journal of Innovative Research in Science, Vol. 1, No. 1, pp. 18511-18515, 2015.
14. Boopathi Y & Nirmalkumar K., 'Study on mechanical properties of ecofriendly Economic concrete', International Journal of Science, Technology & Management Engineering and Technology, Vol. 4, No. 2, pp. 145-153, 2015.
15. Sangeetha Raj K, Jenifar Monica J, Gulshan Taj M. N. A & Nirmalkumar K., 'Study on the effects of cryogenic treatment on the properties of different types of steel ', International Journal of Engineering Science Invention Research & Development, Vol. 1, No. 9, pp. 325-332, 2015.
16. Dhanalaxmi C & Nirmalkumar K., 'Study on Durability Properties of Limestone Powder Concrete Incorporated with Steel Fibres', International Journal of Advanced Technology in Engineering and Science, Vol. 3, No. 5, pp. 92-101, 2015.
17. Karthick M, Gowthamakumar G & Nirmalkumar K., 'Performance Study and Determining the Strength of Concrete by Addition of Class-E Glass Fiber', International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, No. 9, pp. 8170-8177, 2015.
18. Sharmila S & Nirmalkumar K., 'A review paper on the impact of human resource Management among labors in construction Projects', International Journal of Modern Trends in Engineering and Research, Vol. 2, No. 9, pp. 108-111, 2015.
19. Karthick M & Nirmalkumar K., ' A Review on Mechanical Properties of High Strength Self Compacting Concrete', International Journal of Modern Trends in Engineering and Research, Vol. 2, No. 10, pp. 36-41, 2015.
20. Sharmila S & Nirmalkumar K., 'An experimental study on factors affecting human resource management among labors in construction industries', International Journal of Applied Engineering Research, Vol. 10 No. 93, 2015, PP. 158-162.
21. Sharmila S & Nirmalkumar K., 'Study on the Critical Factors Influencing Labor Productivity in Construction Industry', International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 3, March 2016, PP. 3530-3535.

22. Sharmila S & Nirmalkumar K., 'A Preliminary Investigation on Factors Affecting Labours in Construction Projects', *International Journal of Scientific Engineering and Applied Science*, Volume-2, Issue-4, April 2016, PP. 272-279.
23. Karthick M & Nirmalkumar K., 'Durability Properties of High Strength Self Compacting Concrete using Silica Fume and Quarry Dust', *International Journal of Scientific Engineering and Applied Science*, Volume-2, Issue-4, April 2016, PP. 389-395.
24. Karthick M & Nirmalkumar K., 'Mechanical, Durability Properties and Sem Analysis on High Strength Self Compacting Concrete Using Silica Fume and Quarry Dust', *International Journal of Modern Trends in Engineering And Research*, Volume 03, No. 04 2016, PP 155-160.
25. M. Velumani & Nirmalkumar K., 'Investigation on the Mechanical and Durability Properties of Concrete using Fly Ash and Copper Slag', *Asian Journal of Research in Social Sciences and Humanities*, Vol. 6, No. 8, August 2016, pp. 1009-1025.
26. M.Balaji & Nirmalkumar K., 'Study on the Performance of Hybrid Fibre Composite Strengthening the RC Elements (Review Paper)', *International Journal of Engineering Science Invention Research & Development*, Vol. III, Issue III, September 2016, PP. 1-5.
27. M.Poojitha & Nirmalkumar K., 'Review Paper on Geopolymer Concrete by using GGBS', *International Research Journal of Engineering and Technology (IRJET)*, Vol. 03, Issue 08, | Aug-2015, PP. 146-149.
28. M.Poojitha & Nirmalkumar K., 'Review Paper on Reaction of Alkaline Solution in GEO-Polymer Concrete' *International Journal on Recent and Innovation Trends in Computing and Communication*, Vol. 4 Issue: 10, November 2016, PP. 223 - 227.
29. M.Balaji & Nirmalkumar K., 'Study on Jute and Glass Fiber Reinforced Polymer Composites (Review Paper)', *International Journal of Research in Mechanical, Mechatronics and Automobile Engineering (IJRMMAE)*, Vol. 2, Issue. 3, November, 2016, pp. 7-15.
30. Nirmalkumar K., 'Studies on the Suitability of Rice Mill Processed Water in Construction Industry based on Durability Properties', *International Journal of Research in Mechanical, Mechatronics and Automobile Engineering (IJRMMAE)*, Vol. 2, Issue. 3, November, 2016, pp. 22-27.
31. M.Soundararajan & Nirmalkumar K., 'Experimental Study on Mechanical and Durability Properties of High Performance Concrete Replacing Coarse Aggregate by Ferro Slag Aggregates', *Journal of Advances in chemistry*, Vol.13, NO.8, February 2017.
32. M.Poojitha & Nirmalkumar K., 'Enhancing the Durability Properties of Geopolymer Concrete by Adding GGBS', *International Journal for Scientific Research & Development (IJSRD)*, Vol. 5, Issue 01, 2017, pp 239-242.
33. M.Poojitha & Nirmalkumar K., 'Study on Strength of Geopolymer Concrete in Ambient Curing', *International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)*, Vol. 3, Issue 2, 2017, pp 318-321.
34. M.Balaji & Nirmalkumar K., 'Insight on Structural Application of Permeable Concrete', *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol. 6, Issue 4, 2017, pp 5165-5169.
35. Y Boopathi, M Dewakar & Nirmalkumar K., 'Experimental and Analytical Investigation of Structural Behaviour of Fe500 Grade of Steel as Per Limit State Method', *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol. 6, Issue 8, August 2017, pp 16826-16833.
36. Syed Abuthahir & Nirmalkumar K., 'Silica Fume and Metakaolin as Supplementary Cementing Materials- A Review', *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol. 6, Issue 10, October 2017, pp 19795-19798.
37. Syed Abuthahir & Nirmalkumar K., 'Mechanical Strength of Concrete with Different Mineral Admixtures: A Review', *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*, Vol. 6, Issue 10, October 2017, pp 19799-19803.

38. B.Priya & Nirmalkumar K., 'Combination of GGBS / GLSS / Bio Additives / OPC with Fly Ash in Geopolymer Concrete Cured At Ambient Temperature – Review', International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 6, Issue 10, October 2017, pp 20625-20629.
39. B.Priya & Nirmalkumar K., 'A Review on the Durability Properties of Geopolymer Concrete with the Combination of GGBS and FlyAsh', International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 6, Issue 10, October 2017, pp 20630-20634.
40. M. Velumani & Nirmalkumar K (2018), 'Effect of copper slag in structural behaviour of reinforced concrete Beams', Journal of Ecology, Environment and Conservation, Vol. 24, February 2018, pp. 381-383.
41. Bhuvaneswari N & Nirmalkumar K (2018), 'Comparative Study on Partial Replacement of Fine Aggregate with Steel Slag and Weld Slag in Concrete – Review Paper, International Research Journal of Engineering and Technology, Vol. 05, Issue: 10, Oct 2018, pp. 1112-1114.
42. Yazhini K & Nirmalkumar K (2018), 'Experimental Study on Recron Fiber Reinforced Concrete Blended with Flyash and Metakaolin: A Review', International Research Journal of Engineering and Technology, Vol. 05, Issue: 10, Oct 2018, pp. 1274-1276.
43. Bhuvaneswari N & Nirmalkumar K (2019), 'Experimental Study on the Mechanical Strength Properties of Steel Slag in Concrete and Weld Slag in Concrete', International Research Journal of Engineering and Technology, Vol. 06, Issue: 02, Feb. 2019, pp. 260-263.
44. Yazhini K & Nirmalkumar K (2019), 'Studies on the Mechanical Strength Properties of the Metakaolin Concrete', International Research Journal of Engineering and Technology, Vol. 06, Issue: 02, Feb. 2019, pp. 470-474.
45. P.Dinesh kumar, T.Jeevetha, N.Nandhini, S.Vijayashanthi & K Nirmalkumar (2019), 'Mechanical Properties of OPC - Geocement Concrete', International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue-4, November 2019, pp.3733-3736.
46. M Raghunathan, P Chandrasekaran & K Nirmalkumar, 'Ultra High Performance Fiber Reinforced concrete-A Review', International Journal of Advanced Science and Technology, Vol. 29, No. 03, (2020), pp. 6545 - 6550.