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## **List of Publications (Last Five Years)**

- 1. AC Ganesh, M Muthukannan, "Development of High Performance Sustainable Optimized Fiber Reinforced Geopolymer Concrete and Prediction of Compressive Strength" Journal of Cleaner Production, 124543, October 2020. (SCI Indexed) https://doi.org/10.1016/j.jclepro.2020.124543
- 2. Balaji L. and Muthukannan M, "Investigation into valuation of land using remote sensing and GIS in Madurai, Tamilnadu, India", EUROPEAN JOURNAL OF REMOTE SENSING, July 2020. pp 1 -9.2020, (**SCI Indexed**)
- 3. MV Kumar, M Muthukannan, "Investigation of HFRC beams retrofitted using GFRP for enhancement in flexural capacity", International Journal of Manufacturing Technology and Management 34 (1), 1-24, 2020 (SCI Indexed).
- 4. Chithambar Ganesh, A., Muthukannan, M., Aakassh, S., Prasad, Subramanaian, B. "Energy efficient production of geopolymer bricks using industrial waste", IOP Conference Series: Materials Science and Engineering 872 (1), 012154. 2020 (Scopus Indexed)
- 5. AS Kumar, M Muthukannan, IS Krishna, "Optimisation of bio medical waste ash in GGBS based of geopolymer concrete", IOP Conference Series: Materials Science and Engineering 872 (1), 012163. 2020, (Scopus Indexed).
- 6. AC Ganesh, K Sowmiya, M Muthukannan, "Investigation on the effect of steel fibers in geopolymer concrete", IOP Conference Series: Materials Science and Engineering 872 (1), 012156.2020, (Scopus Indexed).
- 7. AC Ganesh, M Muthukannan, M Dhivya, CB Sangeetha, SP Daffodile, "Structural performance of hybrid fiber geopolymer concrete beams", IOP Conference Series: Materials Science and Engineering 872 (1), 012155. 2020,(Scopus Indexed)
- 8. K Arunkumar, M Muthukannan, AD Babu, AL Hariharan, "Effect on addition of Polypropylene fibers in wood ash-fly ash based geopolymer concrete", IOP Conference Series: Materials Science and Engineering 872 (1), 012162. 2020, (Scopus Indexed).

- 9. BB Winsley, **M Muthukannan**, "Information Security: A Scientometric Study", Innovations in the Designing and Marketing of Information Services, 231-246, 2020.(**Scopus Indexed**)
- 10. Chithambar GANESH, **M Muthukannan**, "Investigation on the glass fiber reinforced geopolymer concrete made of M-sand", Journal of Materials and Engineering Structures, Vol 6,501-512, 2019. (**Scopus Indexed**)
- 11. Chithambar Ganesh, **M Muthukannan**, "Experimental Study on the Behaviour of Hybrid Fiber Reinforced Geopolymer Concrete under Ambient Curing Condition", IOP Conference Series: Materials Science and Engineering, Vol 561, 2019.(**Scopus Indexed**)
- 12. A.Chithambar Ganesh, **M.Muthukannan**, R.Malathy and C.Ramesh Babu, "An Experimental study on effects of bacterial strain combination in fibre concrete and self healing efficiency", KSCE Journal of Civil Engineering, 23 (10), 4368-4377, 2019 (SCI Indexed)
- 13. **M.Muthukannan** and Aruna Shankar Chithambar Ganesh, "The Environmental Impact caused by the Ceramic Industries and Assessment Methodologies", International Journal for Quality Research, Volume 13, Issue 2, 315-334, 2019. (**Scopus Indexed**)
- 14. **M.Muthukannan** and A.Chithambar Ganesh, "Investigation on the glass fiber reinforced geopolymer concrete made of M-sand", Journal of Materials and Engineering Structures «JMES», Volume 6, Issue 4, 501-512, 2019. (**Web of Science**)
- 15. BB Winsley and **M Muthukannan**, "Expanded Fly Ash Clay Aggregate a Sustainable Alternative Coarse Aggregate for Concrete", Journal of Materials and Engineering Structures «JMES» 5 (4), 347-353 (2018). (**Web of Science**)
- 16. A Chithambar Ganesh and **M.Muthukannan**, "A review of recent developments in geopolymer concrete", International Journal of Engineering and Technology(UAE) 7 (4.5), 696-699 (2018). (**Scopus Indexed**)
- 17. Chithambar Ganesh, A., **Muthukannan**, **M**., Rajeswaran, M. and Uma Shankar, "Comparative study on the behaviour of geopolymer concrete using M-sand and conventional concrete exposed to elevated temperature", International Journal of Civil Engineering and Technology 9 (11), 981–989 (2018). (**Scopus Indexed**)
- 18. R.KannigaDevi, G.Murugaboopathi and **M.Muthukannan**, "Load Monitoring and System-Traffic-aware Live VM Migration-based Load Balancing in Cloud Data Center using Graph Theoretic Solutions", Cluster Computing- The Journal of Networks, Software Tools and Applications, Volume 20, Issue 78, pp 1-16, Feb' 2018, **Publisher: Springer, USA (SCIE indexed,IF:2.040).**
- 19. J. Bright BrabinWinsley and M. Muthukannan, "A Preliminary Study on the Physical Properties of an Alternative Coarse Aggregate Made with Red Soil and Fly Ash" Open

- Construction and Building Technology Journal, Volume 12 Pages 1-8, 2018 (**Scopus Indexed**)
- 20. Muthuvel S., S. Saravanasankar, R. Sudhakarapandian and **M. Muthukannan**, "Testing and performance analysis of micro encapsulated Rice bran distilled fatty acid" International Journal of Computer Aided Engineering and Technology (Inder science), Volume 9, Issue 2, Pages 154-165, 2017 (**Scopus Indexed**)
- 21. M Vinodkumar and **M Muthukannan**, "Structural behaviour of HFRC beams retrofitted for shear using GFRP laminates" Journal of Computers and Concrete, Volume19, Issue 1 pp 79-85. 2017, **SCI indexed IF 0.813.**
- 22. MK Haridharan, R BharathiMurugan, C Natarajan and **M Muthukannan**, "Influence of Waste Tyre Crumb Rubber on Compressive Strength, Static Modulus of Elasticity and Flexural Strength of Concrete" IOP Conference Series: Earth and Environmental Science, Volume 80, Issue 1, pp 12-14. 2017 (**Scopus Indexed**)
- 23. S Muthuvel, S Saravanasankar, R Sudhakarapandian and **M Muthukannan**, "Building Services Engineering Research & Technology", Building Services Engineering Research & Technology; London 36 (4,), 409-410 (2015). (**Scopus Indexed**)
- 24. Muthuvel, S.Saravanasankar and **M.Muthukannan**," Numerical and Experimental Analysis of Rice Bran distilled Fatty acid usage in Construction for Passive cooling", Building Services Engineering Research and Technology. Volume: 36 issue: 4, page(s): 411-421, (**SCI indexed IF 0.673**), July 1, 2015
- 25. M.Vinodkumar and **M.Muthukannan**," Finite Element Analysis on Shear enhancement of HFRC Beams Retrofitted with GFRP Laminate", International Journal of Applied Engineering Research, Volume 10, Number 38 (2015), pp.28070-28074,(**Scopus Indexed**), 2015.
- 26. M.Vinodkumar, **M.Muthukannan** and M.Sabarinath, "Permeation Properties of Hybrid Fibre Reinforced Concrete", International Journal of Applied Engineering Research, Volume 10, Number 38 (2015), pp.28099-28102, (**Scopus Indexed**), 2015.
- 27. S. Muthuvel, S. Saravanasankar, R. Sudhakarapandian and **M. Muthukannan**, "Numerical and Experimental Analysis on Inorganic Phase Change Material Usage in Construction" Journal of The Institution of Engineers (India): Series A, December 2014, Volume 95, Issue 4, pp 231-238, (**Publisher Springer India**, **Scopus Indexed**)
- 28. **M Muthukannan** and M Vinodkumar, "Experimental Investigation on Flexural and Shear behaviour of Reinforced Concrete Beams Containing Hybrid Steel Polypropylene fibres and Hybrid Glass Polypropylene fibres", International Journal of earth science and engineering 7 (05), 947-952 (2014). (**Scopus Indexed**)

- 29. Vinothkumar.M and **Muthukannan.M**, Review of CFRP/GFRP Composite used for Strengthening of Reinforced Concrete Beams, International Journal of Research in Engineering and Advanced Technology, Volume 2, Issue 2, May 2014, pp 1-6.
- 30. **M.Muthukannan** and K.Gunasekaran. "Demand Estimation Of MRTS Operated In Highly Patronaged Bus Transport Network: A Case Study Chennai, India" International Journal of Environmental creation, Japan. Vol.II. pp-37-43. (**Scopus Indexed**)
- 31. **M.Muthukannan** and A.M.Thirumurthy. "Modelling For Optimization of Urban Transit System Utility: A Case Study. December 2007. International Journal of Engineering and Applied Sciences. April 2008- pp 71-74. (**Scopus Index**)

## **Google Scholar Indexed Journal:**

- 1. M.Muthukannan & Dr A.M.Thirumurthy. "Passenger Management and travel Behaviour along MRTS corridor". Journal of commerce and Trade. Vol II June 2008- pp- 28-36.
- 2. M.Muthukannan & Dr A.M.Thirumurthy. "Modelling for estimation of Demand to mass Rapid transit system Chennai: A Case Study". Indian Journal Engineering Science and Technology- December 2008- pp79- 85.
- 3. Vinod Kumar M, Muthukannan M and M Stephen Jebamalai Raj. "A Study on Static and Fatigue Analysis for Understanding the Response of High Strength Concrete Beam". Journal of Progress in Civil Engineering. Volume II January 2014. pp- 42-50.
- 4. Vinothkumar.M and Muthukannan.M, A Study on Static and Fatigue Analysis for Understanding the response of High Strength Concrete Beam, Journal of Progress in Civil Engineering, Volume 1, Issue 2, January 2014, pp-19-34.
- 5. Dr.M.Muthukannan and Mr.Vinothkumar," A Study on Static and Fatigue Analysis for Understanding the response of High Strength Concrete Beam" Journal of Progress in Civil Engineering, Volume 1, Issue 2, pp-19-34, January 2015.
- 6. K Kousalya, M Muthukannan, N Ganeshsan. "Coordination Mechanism In Supply Chain Management" International Journal of Science and Engineering Research (IJ0SER), Vol 4 Issue 3pp 1-5 March-2016
- 7. M Subazini, M Muthukannan, MSR Ramprasanna, "Traffic Impact Study On Central Business District Madurai" International Journal Of Intelligence Research (IJOIR) Volume 7 pp1-7, January June 2016
- 8. A.Chithambar Ganesh, M. Muthukannan, "Finite Element Analysis over Geopolymer Concrete using Abaqus" International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 8958, Volume-9, Issue-1S4, December 2019

- 9. Muthukannan, M; "Effect of Steel Fibers over the Self Compacting Concrete" International Journal of Innovative Technology and Exploring Engineering, Vol. 9 2S2,pp38-41, 2019
- 10. Muthukannan.M and Sureshkumar.A, "An Examination on Performance of Railway Sleepers" International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, 4S2,pp 37-44, 2019.
- 11. Arunkumar, K; Muthukannan, M; Sureshkumar, A "Experimental Behaviour of Fiber Reinforced Reactive Powder Concrete" International Journal of Engineering and Advanced Technology (IJEAT), Vol.9, 1S4,pp 454-459, 2019.
- 12. Muthukannan, M, "Effect of Elevated Temperature over Geopolymer Concrete" International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, 1S4, pp 450-453, 2019
- 13. Muthukannan, M; "Mechanical Performance of Slurry Infiltrated Fiber Concrete" International Journal of Recent Technology and Engineering (IJRTE), Vol.8, 4S2, pp 49-52, 2019.
- 14. Muthukannan, M; Mukilan, K; "Examination on Lightweight Banana Fibre (bunch) and polyester composite for industrial Applications" International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, 4S2, pp 45-48, 2019