

Dr. M.MUTHUKANNAN,
Professor/ Civil Engineering
Kaliasalingam Academy Of Research And Education
Madavarvalagam,
Srivilliputhur,
Virudhunagar (Dt.)- 626125
Cell 9965035070
Email- civilkannan@yahoo.com

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.**, Aakash, S., Prasad, Subramanian, 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.MalathyandC.RameshBabu, “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**.
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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**)

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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 (IJOSER), 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

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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