

## Dr. M.MUTHUKANNAN- List of publications

### Scopus/ SCI indexed Journal Publication list

- 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>
- 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**)
- 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**).
- 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**)
- 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**).
- 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**).
- 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**)
- 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**).
- BB Winsley, **M Muthukannan**, “Information Security: A Scientometric Study”, Innovations in the Designing and Marketing of Information Services, 231-246, 2020.(**Scopus Indexed**)
- 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**)
- 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**)
- 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**)

- **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**)
- **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**)
- 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**)
- 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**)
- 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**)
- 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).**
- J. Bright Brabin Winsley 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**)
- 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**)
- M Vinodkumar and **M Muthukannan**, “Structural behaviour of HFRP beams retrofitted for shear using GFRP laminates” Journal of Computers and Concrete, Volume 19, Issue 1 pp 79-85. 2017, **SCI indexed IF 0.813.**
- MK Haridharan, R Bharathi Murugan, 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**)
- 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**)
- 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

- 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.
- 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.

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- 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
- 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
- Muthukannan.Mand Sureshkumar.A, “An Examination on Performance of Railway Sleepers” International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, 4S2, pp 37-44, 2019.
- 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.
- Muthukannan, M, “Effect of Elevated Temperature over Geopolymer Concrete” International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, 1S4, pp 450-453, 2019
- Muthukannan, M; “Mechanical Performance of Slurry Infiltrated Fiber Concrete” International Journal of Recent Technology and Engineering (IJRTE), Vol.8, 4S2, pp49-52, 2019.
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- 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
- 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
- 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.
- 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.
- 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.

- 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.
- 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.