



KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)

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SCHOOL OF ENVIRONMENT AND CONSTRUCTION TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

ITEMS	TOTAL NO. OF PUBLICATIONS (2012-2021)									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
JOURNALS	3	4	6	8	6	20	28	100	37	67
CONFERENCE	2	5	34	6	8	2	19	10	0	0
TOTAL	5	9	40	14	14	22	47	110	37	62

LIST OF JOURNAL PUBLICATIONS IN 2021:

1. Abraham, R., Neelakantan, T.R., Chokkalingam, R. B., John, E. Blended Cement Using Calcined Clay and Limestone for Sustainable Development—A Review, Lecture Notes in Civil Engineering, Volume 97, 2021, pp. 701-710.
2. Ariffa Parakath, A., Neelakantan, T.R. “Analysis of resilience performance of water distribution network”, Lecture Notes in Civil Engineering, Volume 78, 2021, pp. 261-267.
3. Chithambar Ganesh, A., Muthukannan, M. “Development of high performance sustainable optimized fiber reinforced geopolymer concrete and prediction of compressive strength”, Journal of Cleaner production, Volume 282, 2021, Article no. 124543.
4. Meyyappan, P., Carmichael, M.J. “An Effective Replacement of Granite and Marble Powder on Cement Mortar Subjected to Chloride Ion Penetration Test”, Lecture Notes in Civil Engineering, 2021, 97, pp. 533–541
5. Meyyappan, P., Carmichael, M.J. “A Comparative Investigation on the Utilization of Marble Dust and Granite Dust in the Cement Mortar against the Sulphate Resistance”, Lecture Notes in Civil Engineering, 2021, 97, pp. 523–532
6. Meyyappan, P., Rajasekaran, M.P., Soroopan, R.S. “An Experimental and Analytical Investigation on the Characteristics of Light Weight Concrete Using Waste Burnt Ash and Pumice Stones”, Lecture Notes in Civil Engineering, 2021, 97, pp. 543–551
7. Palaniappan, M., Milton, J.C., Ramasubramaniam, S.S., Palvannan, H., Sundararaj, H. “Influence of Steel Fibers on Enhancing the Toughness Property on Concrete: A Simplified Approach”, Lecture Notes in Civil Engineering, 2021, 78, pp. 269–275
8. Jagan, S., Neelakantan, T.R., Saravana Kumar, P., Vignesh Harish, H., Akash, M.R. “Efficient Utilization of Recycled Concrete Aggregates for Structural Applications—An Experimental Study”, Lecture Notes in Civil Engineering, 2021, 97, pp. 567–579

9. Jagan, S., Mohammed Sulaiman. "Behaviour of zero cement mortar – An experimental study", Lecture notes in Civil Engineering, Online first, 2021.
10. Sivapragasam, C., Natarajan, N. "Comparison of trends in apparent and air temperature for climate change assessment", Modelling Earth Systems and Environment, Vol. 7, issue 1, pp. 261-271, 2021.
11. Brintha, N.C., Ebenezer, G., Francis SaviourDevaraj, A., Sivapragasam, C., WinowlinJappes, J.T. "Improving student outcome through flexibility in teaching and evaluation methods", vol. 34, special issue, pp. 380-383, 2021.
12. Jagan, S., Neelakantan, T.R. "Effect of silica fume on the hardened and durability properties of concrete", International Review of Applied Sciences and Engineering, 2021, 12(1), pp. 44–49.
13. Neelakantan, T.R., Rohini, K. "Simplified Pressure-Driven Analysis of Water Distribution Network and Resilience Estimation", Journal of Water Resources Planning and Management, 2021, 147(3), 06021002.
14. Winsley, J.B.B., Muthukannan, M. "Behaviour of expanded flyash clay aggregate concrete exposed to elevated temperature", International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2021, 29(Suppl1), pp. 181–191.
15. Devi, R.K., Muthukannan, M. "Self-healing Fault Tolerance Technique in Cloud Datacenter", Proceedings of the 6th International Conference on Inventive Computation Technologies, ICICT 2021, 2021, pp. 731–737, 9358476.
16. Devi, R.K., Muthukannan, M., Babu, S.S.H., Sivadasan, A., Abinivesh, S. "Novel Authentication Mechanisms for Hash Code, CAPTCHA and OTP in Cyber Security Domain", Proceedings of the 6th International Conference on Inventive Computation Technologies, ICICT 2021, 2021, pp. 62–68, 9358573.
17. Sangeethavani, B., Muthukannan, M. "Informative statistics from a river basin kodavanarriver, Tamilnadu to identify artificial recharge using RS and GIS for aquifer ground water modeling", Journal of Green Engineering, 2021, 11(1), pp. 1021–1031.
18. Balaji, L., Muthukannan, M. "Investigation into valuation of land using remote sensing and GIS in Madurai, Tamilnadu, India", European Journal of Remote Sensing, 2021, 54(sup2), pp. 167–175.
19. Palaniappan, M., Chandrasekar, S. "Creating learning interest in the course earthquake resistant design of structures using innovative assessment methods", Journal of Engineering Education Transformations, 2021, 34(special Issue), pp. 757–762.
20. Velumani, P., Nampoothiri, N.V.N. "Volatility forecast of CIDC construction cost index using smoothing techniques and machine learning", International Review of Applied Sciences and Engineering, 2021, 12(1), pp. 50–56.
21. S. Christopher Gnanaraj, Ramesh Babu Chokkalingam, G. Lizia Thankam and S. K. M. Pothinathan. "Influence of Steatite and Fly Ash on the Fresh-Hardened Properties and Micromorphology of Self-Compacting Concrete", Advances in materials science and Engineering, Volume 2021, Article ID 6627450, <https://doi.org/10.1155/2021/6627450>

22. S. Christopher Gnanaraj, Ramesh Babu Chokkalingam, G. Lizia Thankam, S.K.M. Pothinathan. "Durability properties of self-compacting concrete developed with fly ash and ultra-fine natural steatite powder", *Journal of Materials Research and Technology*, August 2021, Vol. 13, pp. 431-439.
23. Anandh Babu Malayali, Ramesh Babu Chokkalingam and M. Muthukannan. "Strength Properties of Geopolymer Concrete Modified with Recycled Aggregates", *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, 2021, <https://doi.org/10.1007/s40996-021-00662-3>
24. S Shenbagavalli and Ramesh Babu Chokkalingam. "Flexural Strength of Fly ash Brick Masonry Wall with four different bond", *Journal of Physics: Conference Series*, Vol. 2070, 2021, Article no. 012190.
25. S. Christopher Gnanaraj and Ramesh Babu Chokkalingam. "Effect of ultrafine natural steatite powder, super plasticizer and VMA on the fresh and hardened properties of self-compacting cement paste and mortar", *International Review of Applied Sciences and Engineering*, Vol. 12, 2021, pp. 285-292.
26. Lizia Thankam Gnanadurai, Neelakantan Thruvas Renganathan and Christopher Gnanaraj Selvaraj. "Synthesis and characterization of synthetic sand by geopolymerization of industrial wastes (fly ash and GGBS) replacing the natural river sand", *Environmental science and Pollution Research*, 2021, Vol. 28, pp. 56294-56304.
27. S. Jagan, T. R. Neelakantan and P. Saravana Kumar. "Mechanical properties of recycled aggregate concrete surface treated by variation in mixing approaches", *Revista de la construccion*, 2021, Vol. 20, pp. 236-248.
28. S. Jagan, T. R. Neelakantan and R. Gokul Kannan. "Mechanical and durability properties of the concrete with copper slag", *Revista de la construccion*, 2021, Vol. 20, pp. 359-370.
29. P. Sivakumar, Nikolai B. Gorev, Tiku T. Tanyimboh, Inna F. Kodzheshpirova, C. R. Suribabu and T. R. Neelakantan. "Downloaded 46 times
30. Closure to "Dynamic Pressure-Dependent Simulation of Water Distribution Networks Considering Volume-Driven Demands Based on Non-iterative Application of EPANET 2 by P. Sivakumar, Nikolai B. Gorev, Tiku T. Tanyimboh, Inna F. Kodzheshpirova, C. R. Suribabu, and T. R. Neelakantan", *Journal of Water Resource Planning and Management*, Vol. 147, 2021.
31. S. Jagan and T. R. Neelakantan. "Mechanical properties of the concrete with recycled coarse aggregate surface treated by microbes", *World Journal of Engineering*, Online Published, 2021, <https://doi.org/10.1108/WJE-02-2021-0089>
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34. C. Sivapragasam, S. Ajith and V. Arumugaprabhu. "A conceptual framework for minimizing construction site accidents using Task-Personnel Nexus Matrix", International Journal of Construction Management, Online Published, 2021.
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36. K. Arunkumar, M. Muthukannan, A. Suresh Kumar and A. Chithambar Ganesh. "Mitigation of waste rubber tire and waste wood ash by the production of rubberized low calcium waste wood ash based geopolymer concrete and influence of waste rubber fibre in setting properties and mechanical behavior", Environmental Research, 2021, Vol. 194, Article no. 110661
37. J. Bright Brabin Winsley and M. Muthukannan. "Behaviour of Expanded Flyash Clay Aggregate Concrete Exposed to Elevated Temperature", International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2021, Vol. 29, pp. 181-191.
38. Chithambar Ganesh, M. Muthukannan, A. Suresh Kumar and K. Arunkumar. "Influence of Bacterial Strain Combination in Hybrid Fiber Reinforced Geopolymer Concrete subjected to Heavy and Very Heavy Traffic Condition", Journal of Advanced Concrete Technology, 2021, Vol. 19, pp. 359-369.
39. Balaji Lakshmana Rao, Muthukannan Muthiah, Naveen Raj Thangasamy and Prabakaran Kulandaisamy. "Advent Geospatial Technologies In Land Evaluation: A Critical Review", International Journal of Engineering Trends and Technology, 2021, Vol. 69, pp. 190-205.
40. Suresh Kumar, M. Muthukannan, R. Kanniga Devi and K. Arun Kumar. "Improving the structural performance of reinforced geopolymer concrete incorporated with hazardous heavy metal waste ash", World Journal of Engineering, 2021, Online Published, 10.1108/WJE-01-2021-0055
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42. Ance Mathew, M. Muthukannan, S. N. Ramasamy. "Experimental investigation and prediction on the effects of glass and bamboo fibers as key mixture parameters in reinforced concretes using support vector regression", Structural Concrete, 2021, Online Published, <https://doi.org/10.1002/suco.202000719>
43. Meyyappan P L, Sivapragasam C, Neelamani S, Al-Zaqah Z K and Al-Khalidi M. "Modeling studies on the behavior of single and double rubble mound breakwaters using genetic programming tool", Indian Journal of Geo Marine Sciences, 2021, Vol. 50, pp. 437-444
44. Meyyappan PL, Keerthana S and Jemimah Carmichael M. "Arriving the suitability of polyethylene wastes in flexible pavements: An experimental approach", Materials Today Proceedings, 2021, Online Published, <https://doi.org/10.1016/j.matpr.2021.07.457>

45. Meyyappan PL, Sutharsan R and Jemimah Carmichael M. "Utilization of Paper Sludge Ash in Lime Based Geopolymer Concrete: An Experimental Study", Lecture Notes in Civil Engineering, 2021, Vol. 171, https://doi.org/10.1007/978-3-030-80312-4_1
46. K. S. Ajay Venkadesh, K. Harish Kumar, B. Hariharan, A. Arumugam, A. Nithish Kumar, P. Karthigai Priya, and S. Vanitha. "Feasibility study on the development of fly ash bricks utilizing Vermicompost as an alternate material for M sand", International Review of Applied Sciences and Engineering, 2021, Online Published, <https://doi.org/10.1556/1848.2021.00320>
47. B. K. Ramesh and S. Vanitha. "Hydro geochemical and geospatial analysis of water quality for domestic and irrigation purposes in Padmanabhapuram, Kanyakumari District, India", Arabian Journal of Geosciences, 2021, Vol. 14, <https://doi.org/10.1007/s12517-021-07823-8>
48. SKM Pothinathan, M. Muthukannan, N. Selvapalam and S. Christopher Gnanaraj. "Investigation on strength properties of polymer modified concrete using Glycoluril", International Review of Applied Sciences and Engineering, 2021, Vol. 12, pp. 278-284.
49. S. K. M. Pothinathan, Pream Kumar, N. Arunachalam and S. Christopher Gnanaraj. "Effect of PCB as partial replacement of fine aggregate and coarse aggregate in concrete", Materials Today Proceedings, 2021, Online Published, <https://doi.org/10.1016/j.matpr.2021.09.363>
50. SKM. Pothinathan, M. Muthukannan, N. Selvapalam and S. Christopher Gnanaraj. "Bond Strength Analysis of Repaired Concrete based on Polymerization of Glycoluril Formaldehyde", Journal of Engg. Research, 2021, Online first, <https://doi.org/10.36909/jer.10377>
51. R Premkumar, J Khajamohideen, M Mathan kumar, T Sundaramoorthi and X. Celestin. "Properties and Environmental Features of Bricks Made From Textile Waste Sludge", Journal of Physics: Conference Series, Vol. 2070, 2021, Article no. 012185.
52. R Premkumar, S. Rajesh and M Prasanna Venkadesh. "Feasibility Study on Application of Natural Coagulants", Journal of Physics: Conference Series, Vol. 2070, 2021, Article no. 012186.
53. K. Mukilan, C. Ramesh Babu and P. Velumani. "An efficient claim management assurance utilizing monarch butterfly optimization approach based EPC model", Engineering and Applied Science Research, 2021, Vol. 21, pp. 570-580.
54. S. Jagan, T. R. Neelakantan and M. Padma Lakshmi. "Enhancement on the properties of recycled coarse aggregate through bio-deposition – An experimental study", Materials Today Proceedings, 2021, Online Published, 10.1016/j.matpr.2021.06.009
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56. S. Jagan and T. R. Neelakantan. "Effect of fine recycled aggregate on the strength and durability properties of concrete modified through two-stage mixing approach", Environmental Science and Pollution Research, 2021, Online Published, <https://doi.org/10.1007/s11356-021-14420-5>

57. P. Saravana Kumar, D. Manoj and S. Jagan. "Properties of concrete having treated recycled coarse aggregate and slag", *Revista de la construccion*, Vol. 20, pp. 249-258
58. Suresh Kumar A, Muthukannan M, Arun Kumar K, Chithambar Ganesh A and Kanniga Devi R. "Mathematical Prediction on the strength and behaviour of structural member by incorporating Incinerated Bio-Medical Waste Ash in Ground Granulated Blast Furnace Slag based Geopolymer Concrete", *Turkish Journal of Computer and Mathematics Education*, 2021, Vol. 12, pp. 4070-4079.
59. K. Arun Kumar, Muthukannan Muthiah, Suresh Kumar A., Chithambar Ganesh A, and Kanniga Devi R. "Invention of sustainable geopolymer concrete made with low calcium waste wood ash", *World Journal of Engineering*, Online Published, 2021.
60. G. Lizia Thankam and T. R. Neelakantan. "Effect on the properties of fresh and hardened concrete made using fly ash geopolymer sand", *International Review of Applied Sciences and Engineering*, 2021, Vol. 12, pp. 176-182.
61. G. Lizia Thankam, T. R. Neelakantan and S. Christopher Gnanaraj. "GGBS based alkali activated fine aggregate in concrete - Properties at fresh and hardened state", *International Review of Applied Sciences and Engineering*, 2021, Vol. 13, pp. 47-53.
62. P. Karthigai Priya and S. Vanitha. "Effect of Nano silica on the properties of concrete and mortar – A state of 70-79.
63. Premkumar, R., Subha, B., Sandhiya, S.P., Narayanan, K.S. "Stabilization of black cotton soil with groundnut shell ash", *Materials Research Proceedings*, 2021, 19, pp. 44–50.
64. Premkumar, R., Chokkalingam, R.B., Kumar, V.J. "Self-compacting concrete properties of recycled coarse aggregate", *Materials Research Proceedings*, 2021, 19, pp. 115–122.
65. Premkumar, R., Chokkalingam, R.B., Subha, B., Sandhiya, S.P. "Utilization of cenosphere in manufacturing of fly ash brick", *Materials Research Proceedings*, 2021, 19, pp. 100–107.
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67. Pothinathan, S.K.M., Muthukannan, M., Selvapalam, N., Gnanaraj, S.C. "A review on application of formaldehyde in cement-based materials", *Materials Research Proceedings* this link is disabled, 2021, 19, pp. 18–27

LIST OF JOURNAL PUBLICATIONS IN 2020:

1. P. Sivakumar, Nikolai B. Gorev, Tiku T. Tanyimboh, Inna F. Kodzhespirova, C. R. Suribabu, and T. R. Neelakantan., "Dynamic Pressure-Dependent Simulation of Water Distribution Networks Considering Volume-Driven Demands Based on Non-iterative Application of EPANET 2", *Journal of Water Resources Planning and Management*, Volume 146, Issue 6, 06020005, 2020.
2. Sivapragasam C., Archana B., Rithuchristy G.C., Aswitha A., Vanitha S., Saravanan P. "Developing Virtual Labs in Fluid Mechanics with UG Students' Involvement". In: Auer M.,

Ram B. K. (eds) Cyber-physical Systems and Digital Twins. REV2019 2019. Lecture Notes in Networks and Systems, Vol. 80. Springer, 2020.

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5. Sivapragasam, C., Ajith, S., Arumugaprabu, V. "Ascertaining the Suitability of A Worker for Safer Execution of A Construction Task: A Genetic Programming Based Modelling Approach", IOP conference series: Materials science and Engineering, Volume 955, Issue 1, 012015, 2020.
6. Sivapragasam, C., Baranitharan, B., Rajesh, K. "ANN Based Model for Prediction of Energy Requirement for Water-Energy Nexus Studies", IOP conference series: Materials science and Engineering, Volume 955, Issue 1, 012067, 2020.
7. Sivapragasam, C., Kowsiga, A., Jeraldine, G.L.J. "Need for paradigm shift in design philosophy for tasks involving water-energy nexus", IOP conference series: Materials science and Engineering, Volume 955, Issue 1, 012102, 2020.
8. Ajith, S., Sivapragasam, C., Arumugaprabu, V. "Comparison of Modelling Tools in Assessing Safety Performance of Construction Site", IOP conference series: Materials science and Engineering, Volume 955, Issue 1, 012016, 2020.
9. Malathy, A., Selvapalam, N., Vanitha, S., Sivapragasam, C. "Study on effect of aeration time on methylene blue removal using titanium dioxide", IOP conference series: Materials science and Engineering, Volume 872, Issue 1, 012185, 2020.
10. Sivapragasam, C., Malathy, A., Ishwarya, D., Saravanan, P., Balamurali, S. "Modelling the elements of flash flood hydrograph using genetic programming", Indian Journal of Geomarine sciences, Volume 49, Issue 6, pp. 1031-1038.
11. Suresh Kumar, A., Muthukannan, M., Sri Krishna, I. "Optimization of bio medical waste ash in GGBS based of geopolymer concrete", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012163
12. Chithambar Ganesh, A., Sowmiya, K., Muthukannan, M. "Investigation on the effect of steel fibers in geopolymer concrete", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012156
13. Chithambar Ganesh, A., Muthukannan, M., Dhivya, M., Sangeetha, C.B., Daffodile, S.P. "Structural performance of hybrid fiber geopolymer concrete beams", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012155
14. Chithambar Ganesh, A., Muthukannan, M., Aakash, S., Prasad, Subramanaian, B. "Energy efficient production of geopolymer bricks using industrial waste", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012154

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16. Kanniga Devi, R., Muthukannan, M. "An Internet of Things-based Economical Agricultural Integrated System for Farmers: A Review", Proceedings of the International Conference on Intelligent Computing and Control Systems, ICICCS, 2020, pp. 666–673, 9121006
17. Balaji, L., Muthukannan, M. "Investigation into valuation of land using remote sensing and GIS in Madurai, Tamilnadu, India", European Journal of remote sensing, 2020, 10.1080/22797254.2020.1772118
18. Priya, P.K., Vanitha, S., Meyyappan, P. "Characteristic and microstructural study on an alternate material in brick manufacturing", IOP Conference Series: Materials Science and Engineering, 2020, 955(1), 012038
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21. Prakash, A.C., Sharma, N.K., Vanitha, S. "Macro algae based adsorption for treatment of cotton processing wastewater", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012186
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25. Velumani, P., Mukilan, K., ManikandaPrabhu, P. "Long term preservation of rainwater for the exploitation of potable water", IOP Conference Series: Materials Science and Engineering, 2020, 872(1), 012116
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