

Publications:

International Journals	:	37
National Journals	:	08
International /National Conferences	:	57
Book Chapter Published	:	03

Total Number of Research Publications: 105

Book Chapters Published:

1. **Thirugnanasambandam S.**, Antony Jeyasehar C. (2019) Ambient Cured Geopolymer Concrete Products. In: Das B., Neithalath N. (eds) Sustainable Construction and Building Materials. Lecture Notes in Civil Engineering, Vol. 25. Springer, Singapore.
2. Dhavamani Doss Sakthidoss, **Thirugnanasambandam Senniappan** (2020) Development of Eco-friendly Geopolymer Concrete Using M-Sand. In: Drück H., Mathur J., Panthalookaran V., Sreekumar V. (eds), “Green Buildings and Sustainable Engineering”. Springer Transactions in Civil and Environmental Engineering. Springer, Singapore.
3. Dhavamani Doss Sakthidoss, **Thirugnanasambandam Senniappan** (2020), “Development of Eco-friendly Alkaine Activated Concrete.” L.-J. Yang et al. (eds.), Proceedings of ICDMC 2019, Design, Materials, Cryogenics and Constructions, Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-15-3631-1_12. ISBN 978-981-15-3630-4 ISBN 978-981-15-3631-1 (eBook)

List of papers published in Journals (2016 – 2020)

1. R. Balamuralikrishnan, **S. Thirugnanasambandam**, “Repair and Rehabilitation of Structures”, **International Journal of Applied Research**, Vol.2, No.8, Part I, pp 558-564, P-ISSN: 2394-7500, E-ISSN: 2394-5869, 2016.
2. S. Annamalai, **S. Thirugnanasambandam**, K. Muthumani, “Flexural Behaviour of Geopolymer Concrete Beams Cured Under Ambient Temperature”, **Asian Journal of Civil Engineering (BHRC)**, Vol.18, No.4, pp. 621-631, P-ISSN: 1563-0854, E-ISSN: 1744-9952, 2017.
3. R. Anu, **S.Thirugnanasambandam**,” Geopolymer Bricks”, **International Journal of Engineering and Advanced Engineering**, Vol. 8, No.6, pp 124-131, ISSN: 2250-2459, 2018.

4. N. Suganya, **S. Thirugnanasambandam**, “Steel Slag as Coarse Aggregate in Concrete”, **International Journal of Engineering and Advanced Engineering**, Vol. 8, No.6, pp 137-141, ISSN: 2250-2459, 2018.
5. S. Dhavamani Doss, **S. Thirugnanasambandam**, “Geopolymer Concrete – An alternative to Cement Concrete: A Review”, **International Journal of Engineering and Advanced Engineering**, Vol. 8, No.6, pp 124-131, ISSN: 2250-2459, 2018.
6. S. Kumaravel, S. Selvamuthukumar **S. Thirugnanasambandam**, “Long – Term Strength of Geopolymer Concrete”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 5, issue 11, pp 334 - 337, ISSN No. **2349-5162**, 2018.
7. Parthiban. B, **S. Thirugnanasambandam**, “Eco-friendly Geopolymer concrete using recycled waste glass as fine aggregate”, **International Journal of Recent Scientific Research**, Vol. 9, Issue 11 (c), pp 29660 – 29664, ISSN: 0976-3031, 2018.
8. Parthiban. B, **S. Thirugnanasambandam**, “Durability study on Eco-friendly Geopolymer concrete using recycled waste glass as aggregate”, **International Journal for Research in Applied Science & Engineering Technology**, Vol. 6, Issue XI, pp 147 - 151, ISSN: 2321-9653, 2018.
9. Parthiban. B, **S. Thirugnanasambandam**, “Study on Recycled Waste Glass Fine Aggregate”, **International Journal of Engineering Science Invention**, Vol. 7, Issue 10, pp 23 – 28, ISSN (Online): 2319-6734, ISSN (Print): 2319-6726, 2018.
10. Parthiban. B, **S. Thirugnanasambandam**, “Using recycled waste glass as coarse aggregate in concrete”, **Journal of Emerging Technologies and Innovative Research**, Vol. 5, Issue 9, pp 409 – 415, ISSN No. 2349-5162, 2018.
11. N. Suganya, **S. Thirugnanasambandam**, “Geopolymer Concrete using Scrap Steel Slag as Coarse Aggregate”, **International Journal for Research in Applied Science and Engineering Technology**, Vol. 7, issue 1, pp 781- 785 ISSN No. 2321-9653, 2019.
12. Parthiban. B, **S. Thirugnanasambandam**, “Study on Duraability Characteristics of Recycled Waste Glass as Coarse Aggregate in Concrete”, **International Journal of Research And Analytical Reviews (IJRAR)**, Vol. 6, Issue 1, pp 1027 - 1032, E-ISSN No. 2349 – 5138, P-ISSN NO. 2349-5138, 2019.
13. Parthiban. B, **S. Thirugnanasambandam**, “Durability Study on Recycled Waste Glass Fine Aggregate Concrete”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, Issue 1, pp 763 - 768, ISSN No. 2349-5162, 2019.
14. Parthiban. B, **S. Thirugnanasambandam**, “Durability Aspects of Recycled Waste Glass Fine Aggregate In Geopolymer Concrete”, **International Journal for Research in Applied Science & Engineering Technology**, Vol. 7, Issue 1, pp 569 - 575, ISSN : 2321-9653, 2019.
15. N. Suganya, **S. Thirugnanasambandam**, “Experimental Investigation on Low Calcium Fly Ash based Geopolymer Concrete using Steel Slag as Coarse Aggregate”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, issue 2, ISSN No. 2349-5162, 2019.

16. R. Raghulkumar, **S.Thirugnanasambandam**,” Study on Conventional and Geopolymer Bricks”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, issue 2, pp 370-375, ISSN No. 2349-5162, 2019.
17. R. Dhinesh, **S.Thirugnanasambandam**,” Development of Ambient Cured Geopolymer Concrete ”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, issue 2, pp 376-381, ISSN No. 2349-5162, 2019.
18. R. Anu, **S.Thirugnanasambandam**,” Geopolymer Bricks Using M-Sand”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, issue 2, pp 309-314, ISSN No. 2349-5162, 2019.
19. N. Suganya, **S. Thirugnanasambandam**, “Mechanical Properties of Ordinary, Standard and High Strength Concrete using Scrap Steel as Coarse Aggregate”, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Vol. 8, issue 5, pp 585- 589, ISSN No. 2278-3075, 2019.
20. S. Dhavamani Doss, **S. Thirugnanasambandam**, “Performance of Ferrogeopolymer Slab Panels”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 6, issue .4, pp 631-635, ISSN No. **2349-5162**, 2019.
21. Parthiban. B, **S. Thirugnanasambandam**, “Flexuralbehaviour of recycled waste glass fine aggregate concrete beams”, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Vol. 8, Issue – 6S4, pp 89-95, ISSN No. 2278-3075, 2019.
22. R. Anu, **S. Thirugnanasambandam**, “Behaviour of two storey RC Frame subjected to lateral load”, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Vol. 8, Issue – 6S4, pp 77-80, ISSN No. 2278-3075, 2019.
23. S. Annamalai, **S. Thirugnanasambandam**, K. Muthumani, “Behaviour of environment friendly green concrete beams using fly ash and furnace slag under cyclic loading”, **International Journal of Environment and Waste Management**, Vol.23, No.4, pp. 396 - 409, ISSN : 1478-9876,2019.
24. Parthiban. B, **S. Thirugnanasambandam**,” Flexural behaviour of geopolymer concrete beams using recycled waste glass as fine aggregate”, **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Vol. 8, Issue – 6S4, pp 81-88, ISSN No. 2278-3075, 2019.
25. Parthiban. B, **S. Thirugnanasambandam**, “Flexural Behaviour of Geopolymer Concrete Beams using Waste Glass as Coarse Aggregate”, **International Journal of Engineering and Advanced Technology**, Vol. 9, Issue 1, pp 4479 – 4485, ISSN No. 2249-8958, 2019.
26. S. Dhavamani Doss, **S. Thirugnanasambandam**, “Study on High Strength Geopolymer Concrete with Alumina – Silica Materials using Manufacturing Sand”, **Silicon-Springer**, Vol. 12, pp 735 - 746, ISSN No. **1876 - 990X**, 2020.

27. S. Dhavamani Doss, **S. Thirugnanasambandam**, P.Murthi, K.Poongodi “Compressive Strength and Water Absorption Relationship of Alkaline Activated Concrete”, **International Journal of Innovative Technology and Exploring Engineering**, Vol. 9, Issue 4, February, pp 897 - 902, ISSN No. 2278-3075, 2020.
28. S. Dhavamani Doss, **S. Thirugnanasambandam**, P.Murthi, K.Poongodi “Development of Alkaline Activated High Strength Concrete using Fly Ash – Ground Granulated Blast Furnace Slag – Metakaolin as Binders and Manufacturing Sand as Fine Aggregate”, **International Journal of Innovative Technology and Exploring Engineering**, Vol. 9, Issue 4, February, pp 903 - 911, ISSN No. 2278-3075, 2020.
29. Manoj. G., **Thirugnanasambandam.S**, “The Review of Geopolymer Concrete Incorporating Nano Particles”, **Studies in Indian Place Names**, Vol. 40, Issue 74, pp.315-319. ISSN: 2394-3114, March 2020.