



**KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)  
NAMAKKAL- TRICHY MAIN ROAD, THOTTIAM, TRICHY**

**DEPARTMENT OF CIVIL ENGINEERING**

**ACADEMIC YEAR 2024-2025**

**FACULTY PUBLICATIONS - International / National Journals**

| SL.NO | DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.    | <b>Saravanan R</b> , Ramkumar S, Vijayaraghavan J & Nandakumar ‘The Influence of ZnO Nanoparticles on Mechanical and Early-age Hydration Behaviour of Cement Paste’ Revista Materia/ Materia-Rio De Janerio, Volume 29, N. 3, ISSN: 1517-7076, July 2024. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0068">https://doi.org/10.1590/1517-7076-RMAT-2024-0068</a>                                                                            |
| 2.    | <b>Saravanan R</b> , Dharmaraj R, Thivya J & Indhu M P ‘Investigating the Utilization of Oxidized Textile Residue as a Strengthening Substance in the Composition of Subgrade Soil for Pavement Construction’ Global NEST Journal, Volume 26, N.7, ISSN: 1790-7632, July 2024. DOI - <a href="https://doi.org/10.55555/gnj.005771">https://doi.org/10.55555/gnj.005771</a> .                                                                               |
| 3.    | Vijayakumar A, Pinky Devi L, <b>Southamirajan S</b> & Pradeep T ‘Revolutionizing Structural Strength: Unveiling Enhanced Reinforced Concrete Beams Infused with Cutting-edge Glass Fiber Reinforced Polymer (GFRP) Composites’ Journal of Ceramic Processing Research, ISSN: 1229-9162, Volume 25, No. 4, Page No 589-598, August 2024. DOI - <a href="https://doi.org/10.36410/jcpr.2024.25.4.589">https://doi.org/10.36410/jcpr.2024.25.4.589</a>        |
| 4.    | Vivek S, Vaidhegi K, Raghu Babu Uppara, <b>Sasivarman S</b> & Srinivasan NP ‘Spatiotemporal Variation of Water Quality in the Context of Suspended Particulate Matter in Laguna Mar Chiquita Lake, Argentina using ACOLITE’ Desalination and Water Treatment, ISSN: 1944-3986, Volume 320, No. 4, Page No 1-9, August 2024. DOI - <a href="https://doi.org/10.1016/j.dwt.2024.100684">https://doi.org/10.1016/j.dwt.2024.100684</a>                        |
| 5.    | Nada Alzaben, Mashaël Maashi, Amal M Nouri, Nithya Kathiresan, Manimaran Arumugam & <b>Dhavashankaran D</b> ‘Artificial Neural Network to Predict the Compressive Strength of High Strength Self-Compacting Concrete Made of Marble Dust’ Revista Materia/ Materia-Rio De Janerio, Volume 29, N. 3, ISSN: 1517-7076, September 2024. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0329">https://doi.org/10.1590/1517-7076-RMAT-2024-0329</a> |
| 6.    | Gopalakrishnan K M, Mohanraj R, <b>Southamirajan S</b> & Ramkumar S ‘Characterization of Euphorbia Tortilis Cactus Concrete Specimen by 3D X-ray Tomography’ Russian Journal of Non-destructive Testing, Volume 60, ISSN: 1061-8309, Page No 692-698, October 2024. DOI - <a href="https://doi.org/10.1134/S1061830924601892">https://doi.org/10.1134/S1061830924601892</a>                                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.  | <b>Kavipriya S, Sridhar N, Deepanraj CG &amp; Sureshkumar E</b> ‘Impact of Inclusion of Lignocellulosic Fibre, Metal Swarf and Industrial Waste by Products to Develop Sustainable Environment’ Revista Materia/ Materia-Rio De Janerio, Volume 29, N. 3, ISSN: 1517-7076, October 2024. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0030">https://doi.org/10.1590/1517-7076-RMAT-2024-0030</a>                            |
| 8.  | <b>Kavipriya S, Southamirajan S, &amp; Iniya MP</b> ‘Reduction of Carbon Footprint by Development of Green Concrete with Incorporation of Quarry Rock Dust, Activated Slag and Sisal Fibers’ Revista Materia/ Materia-Rio De Janerio, Volume 29, N. 3, ISSN: 1517-7076, October 2024. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0306">https://doi.org/10.1590/1517-7076-RMAT-2024-0306</a>                               |
| 9.  | Gopalakrishnan K M, Mohanraj R, Swaminathan P& <b>Saravanan R</b> ‘Enhancing Concrete Beam Performance with PVA Fibers, Coal Ash, and Graphene Fabric: a Comprehensive Structural Analysis’ International Journal of Coal Preparation and Utilization, ISSN: 1939-2702, Page No 1-18, October 2024. DOI - <a href="https://doi.org/10.1080/19392699.2024.2407604">https://doi.org/10.1080/19392699.2024.2407604</a>                       |
| 10. | Yuvaraj K, Vidhya K, Pradeep T, <b>Sakthivel M</b> & Ramesh Subramani ‘Mechanical, Mineralogical and Durability Properties of Pulverized Pond Ash based Concrete’ Materials Science (Medziagotyra), Volume 31 No.1, ISSN: 1392- 1320, Page No – 108-114, October 2024. DOI - <a href="http://doi.org/10.5755/j02.ms.38280">http://doi.org/10.5755/j02.ms.38280</a>                                                                        |
| 11. | <b>Kavipriya S, Iniya M.P &amp; Sasivarman B</b> ‘Assessment on Slag based Geopolymer Concrete Blended with Industrial Waste using Different Ratios of Alkaline Liquid to Binder and NaOH/Na <sub>2</sub> SiO <sub>3</sub> ’ Global NEST Journal, Volume 27, N.7, ISSN: 1790-7632, November 2024. DOI - <a href="https://doi.org/10.30955/gnj.06435">https://doi.org/10.30955/gnj.06435</a>                                               |
| 12. | Alanoud Al Mazroa, Faiz Abdullah Alotaibi, Ramamurthy C, Kesava Rao Battena, Yenigandla Naga Mahesh & <b>Iniya MP</b> ‘Predictive Modeling of Cementitious Green Hybrid Concrete Strength for Low-Volume Roads using RSM’ Revista Materia/ Materia-Rio De Janerio, Volume 30, N. 1, ISSN: 1517-7076, February 2025. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0603">https://doi.org/10.1590/1517-7076-RMAT-2024-0603</a> |
| 13. | Mohan Raj Robin Rajan, Dharmaraj Rajalinggam, Karuppasamy Narayanan & Saravanan R ‘Eco-Friendly Paver Blocks: Repurposing Plastic Waste and Foundry Sand’ Revista Materia/ Materia-Rio De Janerio, Volume 30, N. 1, ISSN: 1517-7076, February 2025. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0707">https://doi.org/10.1590/1517-7076-RMAT-2024-0707</a>                                                                 |
| 14. | Velumani P, Aruna G & <b>Saravanan R</b> ‘Axial Compression Behavior of Edge Stiffened C-Profile Aluminium Alloy: A Finite Element Analysis’ Revista Materia/ Materia-Rio De Janerio, Volume 30, N. 1, ISSN: 1517-7076, March 2025. DOI - <a href="https://doi.org/10.1590/1517-7076-RMAT-2024-0720">https://doi.org/10.1590/1517-7076-RMAT-2024-0720</a>                                                                                 |
| 15. | <b>Kavipriya S, Pradeep K &amp; Southamirajan S</b> ‘Mechanical And Microstructural Performance of Engineered Geopolymer Cementitious Composites Embedded with Activated Slag’ Journal of Ceramic Processing Research, ISSN: 1229-9162, Volume 26, No. 1, Page No 1-8, March 2025. DOI - <a href="https://doi.org/10.36410/jcpr.2025.26.1.1">https://doi.org/10.36410/jcpr.2025.26.1.1</a>                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. | <b>Dr.R.Saravanan</b> ‘Experimental study on the usage of biopolymersodium alginate as drainage barrier in liners’ Journal of Polymer Engineering,ISSN: 0334-6447, Volume, No., Page No 1-11,May2025. DOI - <a href="https://doi.org/10.1515/polyeng-2024-0221">https://doi.org/10.1515/polyeng-2024-0221</a>                                                                           |
| 17. | <b>Mr.M.Sakthivel</b> ‘Prediction of the Anti-Carbonation Performance of Concretebased on Random Forest – Least Squares Support Vector MachineModel’ Journal of Environmental Engineering and Landscape Management, ISSN: 1648-6897, Volume 33, No.2 , Page No 226-241, May 2025. DOI - <a href="https://doi.org/10.3846/jeelm.2025.23568">https://doi.org/10.3846/jeelm.2025.23568</a> |