

## DEPARTMENT OF CIVIL ENGINEERING

### International Journals

#### May 2020- till date

1. GeetanjaliChandam, YanchenOinammRochitraKeisham, Nungdren N, Pratheeba Paul, “Development of Road Congestion Index based on Comprehensive Parameters”*International Journal of Innovative Technology and Exploring Engineering (IJITEE)* 9(9):220-225.
2. Karthick, R.SamuelDevadoss, S.Sharmila, and S.Karthikeyan,(2020), “Assessment Of Meteorological Parameters For Flat Terrain Condition By Using AERMET a Pre-Processor Dispersion Model”, *Research Journal of Chemistry and Environment*, 24(8), 96-107.
3. SankarSekar, Sejoon Lee, PreethiVijayarengan, Kalirajan KM, Santhakumar T, Saravanan Sekar, Sudha S, “Upcycling of Wastewater via Effective Photocatalytic Hydrogen Production Using MnO<sub>2</sub> Nanoparticles-Decorated Activated Carbon Nanoflakes”, *Nanomaterials* 10, 2020, 1610.
4. SankarSekar, Sejoon Lee, PreethiVijayarengan, “Biomass Activated Carbon-Decorated Spherical  $\beta$ -Ni(OH)<sub>2</sub> Nanoparticles for Enhanced Hydrogen Production”, *Journal of Water Process Engineering* (accepted for publication), Sep 2020.
5. V. T. Neelmudiyon, PreethiVijayarengan\*, S.Govindarajan, “A Study on Conjunctive use of Green and Blue Water in Deevanur Tank Irrigated Area”,*International journal of advanced research in engineering & technology* 11(9):272-281, 2020.
6. HariramVenkatesan, Godwin John John Rose, PreethiVijayarengan,SeralathanSivamani, Jagannathan Krishnan, Micha Premkumar T, “Predicting the combustion behaviour of compression ignition engine fuelled with biodiesel from *Stoechospermummarginatum*, a

macro algae”, *Environmental Science and Pollution Research*, DOI:[10.1007/s11356-020-10048-z](https://doi.org/10.1007/s11356-020-10048-z),

7. Dhinakaran, Branesh Robert J. and Angeline Prabhavathy R., ‘Behaviour of Reinforced Concrete Beams with Opening in the Flexural Zone Strengthened using Steel Plates’, *Journal of critical reviews JCR*, 2020; 7(11): 3304-3310.
8. Christopher Danielraj. R, Merin Mary Alex, ‘Analyse the element and minimise cost overrun and delays in construction projects’, *International journal of Science and Technology IJST*, Vol 29, No 8S(2020), 4604-4608.
9. Sushmitha, Christopher Danielraj. R, ‘A computer aided inventory management and scheduling’, *Journal of critical review*, Vol 7, Issue 17, 2020
10. Raja, M.A., Preethi, V., Pal, Y., Nalajala, N., Gopinath, C.S., “Photocatalytic Hydrogen Production from H<sub>2</sub>S using Nanostructured CNT blended CdZnS/Fe<sub>2</sub>O<sub>3</sub> Thin Film on Glass Substrate”, *Journal of Physics: Conference Series* 2020

## June 2019-May 2020

1. Shalini R Nair, Dr.Jessy Rooby, Dr.T.S.Parvati and Dr.P.S.Joanna,“Response of Tall Structures Subjected to Constant and Varying Wind Velocity”,*International Journal of Civil Engineering and Technology (IJCET)*, Volume 10, Issue 12,December2019, pp. 459-465, Article ID: IJCET\_10\_12\_046
2. Sabarish, K.V., Paul, “An Experimental Analysis on Beam Structural with Taguchi Orthogonal Array”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, October 2019,ISSN: 2278-3075, Volume-8 Issue-12S.
3. J. Karthick, R. Samuel Devadoss, S.Sharmila and R.Natesan.(2020) “Investigational assessment on gaseous stack emissions from liquid form of fuels under various loading conditions”, *PollutionResearch*,39(2), S106 – S112.
4. J. Karthick, R. Samuel Devadoss (2019). “Comparative study on air contaminants discharged from several industrial stacks operated from various forms of fuels”. *Disaster Advances*, 12(11): 7-14.
5. Karthick.J, Samuel Devadoss.R, Sharmila.S and Karthikeyan.S“Assessment of meteorological parameters for flat terrain condition by using AERMET, a pre-processor,”*Research Journal of chemistry and Environment* (2020), 24(8) 96-10 ISSN: 22784527
6. M. Anthony Raja and V. Preethi, “ Photocatalytic Hydrogen Production using Bench-scale Trapezoidal Photocatalytic Reactor under Visible and Solar Irradiation”, *International Journal of Hydrogen Energy*, 45 (2020) 7574-7583.
7. Preethi V, Anthony Raja, “Performance of Square and Trapezoidal Photoreactors for Solar Hydrogen Recovery from Various Industrial Sulphide Wastewater using CNT & Ce<sup>3+</sup> doped TiO<sub>2</sub>,”*International Journal of Hydrogen Energy*, 45 (2020) 7616-7626.
8. S.N.Mohamed, Preethi V and Matheswaran M, ‘Enhancing biohydrogen production from sugar industry wastewater using metal oxide/graphene nanocomposite catalysts in microbial electrolysis cell’, *International Journal of Hydrogen Energy*, 45 (2020) 7647-7655.

9. M. Siva, Joel Vianneys, "Development of Modified Recycled Aggregate for the Production of Sustainable Concrete", *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, Volume-8 Issue-3, September 2019.
10. Banerjee, Jessy Rooby, "Strength properties of tyre rubber concrete", *International Journal of Recent Technology and Engineering* 8(4), pp. 8217-8222, 2019
11. Sulagno Banerjee, Jessy Rooby, "Strength and ductility of tyre rubber concrete columns", *International Journal of Recent Technology and Engineering*, 8(4), 2019, pp. 4927-4934
12. S. Anandaraj, J. Rooby, G. Ravindran, A. K. Beerala, V. Mulukalla and S. Koduri, "Strength prediction using ANN for concrete with Marble and Quarry dust," 2018 International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), Erode, India, 2018, pp. 357-363, doi: 10.1109/I2C2SW45816.2018.8997326.(IEEE Explorer ,February 2020)
13. Ravi Kumar P, Abhinav Bhandari, Tika Devi Rai, Jessy Rooby, Sundararajan T "Strength of Geopolymer paste using ternary blend of flyash, GGBS and silica fume under ambient conditions", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8 Issue-11, September 2019
14. V. Navakoteswara Rao, N. Lakshmana Reddy, M. Mamatha Kumari, P. Ravi, M. Sathish, K.M. Kuruvilla, V. Preethi\*, K. Raghava Reddy, T.M. Aminabhavi\*, M.V. Shankar\*., "Photocatalytic H<sub>2</sub> production coupled with pollutant removal from sulphide wastewater: Surface and interface control of photo-excitons in Cu<sub>2</sub>S@TiO<sub>2</sub> core-shell nanostructures", *Applied Catalysis B Environmental* 254, (2019) 174-185.
15. Joanna. P.S, Christopher Daniel raj. R, Namitha Jacob, Sajil Johnson, Parvati. T.S, 'Performance of sustainable Nano concrete' *International Journal of Engineering and Advanced Technology*, Vol 9, Issue 2, December 2019
16. J. Samuel, P.S. Joanna, "Experimental study and numerical modelling on the behaviour of built-up cold-formed steel beams with diagonal web bars", *International Journal Of Scientific & Technology Research*, Volume 9, Issue 02, February 2020 ,pp. 2272-2276
17. Yoganantham C and Joanna P.S. "Effect Of High Volume Fly Ash Concrete In Self-curing Engineered Cementitious Composite (ECC)" *International Journal of Advanced*

*Research in Engineering and Technology (IJARET)* Volume 11, Issue 4, April 2020, pp. 306-314, Article ID: IJARET\_11\_04\_029

18. Aravind Raj P S, Divahar R, Sangeetha S P , Joanna P S, “Quasi-Static cyclic load performance of encased concrete filled steel tubular with steel loops joint using sustainable concrete”, *Asian Journal of Civil Engineering*, 21, (2020), pp: 1259–1267, <https://doi.org/10.1007/s42107-020-00274-8>, (Springer & Scopus Indexed Journal).
19. Divahar Ravi, Aravind Raj P.S, Sangeetha S.P, Joanna Philip Saratha, "Experimental, Analytical and Numerical studies on Concrete Encased Trapezoidally Web Profiled Cold Formed Steel Beams by Varying Depth-Thickness (dw/tw) Ratio , *Frontiers of Structural and Civil Engineering*, 2020, 14(4), pp. 930-946, doi: 10.1007/s11709-020-0652-1. (Scopus Indexed Journal, Science Citation Indexed).
20. Ravikumar P, Abhinav Bhandari, Joshua Paul Verghese, Abhilesh N Jain, Tika Devi Rai, Jessy Rooby, Sundararajan T “Mechanical Properties of High Calcium Flyash- GGBFS Geopolymer Paste, Mortar and the Effect of Glass Fibre Mesh on the Strength of Geopolymer Mortar Tile”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278–3075 (Online), Volume-9 Issue-6, April 2020, Page No. 722-729.

## June 2018-May 2019

1. Sabarish K.V, J.Baskar, Pratheeba Paul, “Overview on L9 Taguchi optimizational method” *International Journal of Mechanical Engineering and Technology (IJMET)*, S Volume 10, Issue 03, March 2019, pp. 683-689. DOI: 10.34218/IJARET.10.2.2019.062.
2. Joe Paulson A., Angeline Prabhavathy R., ShobhaRekh and Evelyn Brindha “Application of Neural Network for Prediction of Compressive Strength of Silica Fume Concrete”,*International Journal of Civil Engineering & Technology (IJCIET)*, Volume 10, Issue 02, February 2019, pp. 1859–1867.
3. V. Prabhu , Jessy Rooby and A. Rajaraman (2019) ‘Investigational Study on Eco and Energy Friendly Infrastructural Material’. *Journal of Green Engineering*, 9(1), pp.112-135.
4. R. Angeline Prabhavathy, Ms. B. Selvarani, “Experimental Study on Eco friendly Polypropylene Fiber reinforced concrete using foundry sand”, *ARPN Journal of Engineering & Applied Sciences* . ISSN 1819-6608, Volume 13, No. 23, December 2018, pp. 9229-9236.
5. Sabarish, K.V., Paul, P, Utilization Of M-Sand As A Partial replacement For Fine Aggregate In Concrete Elements, “International Journal Of Civil Engineering & Technology (IJCIET), Volume 9, Issue 10, October 2018, Pp. 422–426.
6. Sabarish, K.V., Akish, R.M., Paul, P. “Utilization Of Sisal Fiber In Portland Cement Concrete Elements”, *International Journal Of Civil Engineering & Technology (IJCIET)*, Volume 9, Issue 9, September 2018, pp. 1682–1686.
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9. S.AnandRaj, JessyRooby, P.O.Awoyera, R.Gobinath (2018) Structural distress in glass fibre-reinforced concrete under loading and exposure to aggressive environments, *Construction and Building Materials*. <https://doi.org/10.1016/j.conbuildmat.2018.06.090>.
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28. P.Ravikumar, VinodhiniEllappan (2018) “The Mix Proportion and Strength of Polyester Resin Concrete with Various Microfillers” *International Journal of Civil Engineering and Technology (IJCIET)* , Volume 9, Issue 5, May 2018, pp. 1042–1050
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30. S. Sharmila Dr. R. Samuel Devadoss, Felix Mathew “ IMPACT OF MECHANISATION IN CONSTRUCTION PROJECTS IN INDIA” *International Journal of Civil Engineering and Technology (IJCIET)* Volume 09, Issue 13, December 2018,ISSN Print: 0976-6308