



**DEPARTMENT OF CIVIL ENGINEERING / नागरिक अभियांत्रिकी विभाग**  
**NATIONAL INSTITUTE OF TECHNOLOGY / राष्ट्रीय प्रौद्योगिकी संस्थान**

Tiruchirappalli – 620 015, Tamil Nadu, India / तिरुचिरापल्ली, तमिलनाडु - ६२००१५, भारत

**Research publications (2018-19)**

S. No.	Title	Authors	Year	Full date	Citations	DOI
1.	Stabilized landfill leachate treatment using heterogeneous Fenton and electro-Fenton processes	Sruthi, T.   Gandhimathi, R.   Ramesh, S.T.   Nidheesh, P.V.	2018	01-11-2018	110	10.1016/j.chemosphere.2018.06.172
2.	Combined heterogeneous Electro-Fenton and biological process for the treatment of stabilized landfill leachate	Baiju, A.   Gandhimathi, R.   Ramesh, S.T.   Nidheesh, P.V.	2018	15-03-2018	86	10.1016/j.jenvman.2018.01.019
3.	Removal of rhodamine B dye from aqueous solution by electro-Fenton process using iron-doped mesoporous silica as a heterogeneous catalyst	Jinisha, R.   Gandhimathi, R.   Ramesh, S.T.   Nidheesh, P.V.   Velmathi, S.	2018	01-06-2018	72	10.1016/j.chemosphere.2018.02.117
4.	Review of zero-valent aluminium based water and wastewater treatment methods	Nidheesh, P.V.   Khatri, J.   Anantha Singh, T.S.   Gandhimathi, R.   Ramesh, S.T.	2018	01-06-2018	61	10.1016/j.chemosphere.2018.02.155
5.	Pyrolysis of Musa balbisiana flower petal using thermogravimetric studies	Sriram, A.   Swaminathan, G.	2018	01-10-2018	53	10.1016/j.biortech.2018.05.043
6.	Effect of Slope on p-y Curves for Laterally Loaded Piles in Soft Clay	Rathod, D.   Muthukkumaran, K.   Sitharam, T.G.	2018	01-06-2018	19	10.1007/s10706-017-0405-7
7.	Effect of temperature and thermal shock on concrete containing hazardous electronic waste	Kumar, K.S.   Baskar, K.	2018	01-04-2018	18	10.1061/(ASCE)HZ.2153-5515.0000387
8.	Utility of Landsat Data for Assessing Mangrove Degradation in Muthupet Lagoon, South India	Saravanan, S.   Jegankumar, R.   Selvaraj, A.   Jacinth Jennifer, J.   Parthasarathy, K.S.S.	2018	21-11-2018	14	10.1016/B978-0-12-814350-6.00020-3
9.	Modeling pedestrian crossing behavior and safety at signalized intersections	Marisamynathan, S.   Vedagiri, P.	2018	01-04-2018	13	10.1177/0361198118759075
10.	Method to determine pedestrian level of	Marisamynathan, S.   Lakshmi, S.	2018	03-09-2018	12	10.1080/19427867.2016.1264668

	service for sidewalks in Indian context					
11.	Water retention characteristics of swelling clays in different compaction states	Iyer, K.K.R.   Joseph, J.   Lopes, B.C.F.L.   Singh, D.N.   Tarantino, A.	2018	03-04-2018	11	10.1080/17486025.2017.1396363
12.	Empirical Approach for Determining Axial Strength of Circular Concrete Filled Steel Tubular Columns	Jayalekshmi, S.   Jegadesh, J.S.S.   Goel, A.	2018	01-06-2018	10	10.1007/s40030-018-0291-x
13.	A new approach to estimate pedestrian delay at signalized intersections	Marisamynathan, S.   Vedagiri, P.	2018	01-01-2018	9	10.3846/16484142.2016.1158208
14.	Assessment of radioactivity in concrete made with e-waste plastic	Senthil Kumar, K.   Premalatha, P.V.   Baskar, K.   Sankaran Pillai, G.   Shahul Hameed, P.	2018	01-01-2018	8	10.1520/JTE20160006
15.	Assessing Coastal Aquifer to Seawater Intrusion: Application of the GALDIT Method to the Cuddalore Aquifer, India	Saravanan, S.   Parthasarathy, K.S.S.   Sivaranjani, S.	2018	21-11-2018	8	10.1016/B978-0-12-814350-6.00010-0
16.	Influence of sustainable materials in strength and durability of self-compacting concrete: a review	Chandru, P.   Natarajan, C.   Karthikeyan, J.	2018	01-12-2018	7	10.1007/s41024-018-0037-1
17.	Monitoring Spatial and Temporal Scales of Shoreline Changes in the Cuddalore Region, India	Saravanan, S.   Parthasarathy, K.S.S.   Vishnuprasath, S.R.	2018	21-11-2018	6	10.1016/B978-0-12-814350-6.00004-5
18.	Influence of treated natural jute fiber on flexural properties of reinforced concrete beams	Bharathi Murugan, R.   Gayke, A.   Natarajan, C.   Haridharan, M.K.   Murali, G.   Parthiban, K.	2018	01-01-2018	5	10.14419/ijet.v7i3.12.15906
19.	Strengthening of thin-webbed castellated beam using CFRP	Cyril Thomas, A.   Baskar, K.	2018	02-11-2018	5	10.1080/15502287.2018.1534153
20.	Behaviour of Laterally Loaded Piles in Soft Clay on Sloping Ground	Rathod, D.   Muthukkumaran, K.   Sitharam, T.G.	2018	01-01-2018	5	10.1007/978-3-319-63543-9_13
21.	Knowledge-based decision support system for identification of crack causes in concrete buildings	Barkavi, T.   Natarajan, C.	2018	01-02-2018	5	10.1007/s42107-018-0005-8
22.	Some investigations to quantify hysteresis associated with water retention behaviour of fine-grained soils	Iyer, K.K.R.   Joseph, J.   Shetty, R.   Singh, D.N.	2018	02-10-2018	5	10.1080/17486025.2018.1445872
23.	Testing and evaluation of bond surface profile influencing the CFRP strengthening	Cyril Thomas, A.   Baskar, K.	2018	01-11-2018	4	10.1520/JTE20170195

	of steel members					
24.	Performance enhancement of green concrete	Suresh, G.V.   Karthikeyan, J.	2018	18-08-2018	4	10.1680/jensu.15.00066
25.	Cyclone vulnerability assessment of cuddalore coast in Tamil Nadu, India using remote sensing, and GIS	Saravanan, S.   Jennifer, J.   Singh, L.   Abijith, D.	2018	14-11-2018	4	10.1051/mateccconf/201822902022
26.	Metaheuristic-based approach for state and process parameter prediction using hybrid grey wolf optimization	Sankaranarayanan, S.   Sivakumaran, N.   Radhakrishnan, T.K.   Swaminathan, G.	2018	01-07-2018	3	10.1002/apj.2215
27.	A novel hybridized grey Wolf optimization for a cost optimal design of water distribution network	Sankaranarayanan, S.   Swaminathan, G.   Sivakumaran, N.   Radhakrishnan, T.K.	2018	08-01-2018	3	10.1109/SAI.2017.8252210
28.	Characterization of the soil samples from the Lonar crater, India	Koshy, N.   Sushalekshmi, S.U.   Sharma, S.   Joseph, J.   Sharma, V.   Singh, D.N.   Jha, B.   Singh, M.	2018	01-03-2018	3	-
29.	Utilization of dye-loaded activated carbon as a potential alternative fuel source: a feasibility study through calorific and thermo-gravimetric analysis	Sriram, A.   Swaminathan, G.	2018	01-11-2018	3	10.1007/s11356-018-3279-1
30.	A Study on Wheel Sinkage and Rolling Resistance with variations in wheel geometry for Plain and Lugged wheels on TRI -1 Soil Simulant	Kumar, P.G.   Jayalekshmi, S.	2018	05-04-2018	2	10.1088/1757-899X/330/1/012127
31.	Structural health monitoring: detection of concrete flaws using ultrasonic pulse velocity	Ravi Kumar, N.S.M.   Barkavi, T.   Natarajan, C.	2018	01-12-2018	2	10.1007/s41024-018-0036-2
32.	Tension field action in plate girder under various loading conditions	Natesh, P.S.   Sarma, I.V.   Baskar, K.	2018	01-08-2018	1	-
33.	Strengthening of brick masonry with welded wire mesh	Umamaheswari, V.   Kanchidurai, S.   Krishnan, P.A.   Baskar, K.	2018	01-01-2018	1	10.14419/ijet.v7i3.12.15902
34.	Lateral Response of Socketed Pile Under Cyclic Load	Prakash, A.R.   Muthukkumaran, K.	2018	01-01-2018	1	10.1007/978-3-319-63543-9_5
35.	Modified model for shear stress distribution using TRI-1 lunar soil simulant	Jayalekshmi, S.   Kumar, P.G.	2018	01-01-2018	0	10.15632/jtam-pl.56.1.137
36.	Flow of Microbial Suspension Through	Shashank, B.S.   Rakshith, S.	2018	01-01-2018	0	10.1007/978-3-319-61612-4_9

	Porous Media	Joseph, J.   Mohammad, A.   Singh, D.N.				
37.	Removal of Xanthene class - Rose Bengal dye through polymer based adsorbent prepared from Calotropis gigantea: Kinetics and Thermogravimetric studies	Sriram, A.   Swaminathan, G.	2018	01-01-2018	0	10.47915/jese.2018.v60i01.005
38.	Finite element evaluation of the behaviour of reinforced soil retaining walls	Karpurapu, R.   Jayalekshmi, S.	2018	01-01-2018	0	-
39.	Field Study on Response of Laterally Loaded Pile in Clayey Soil	Sivaraman, S.   Muthukkumaran, K.	2018	01-01-2018	0	10.1007/978-3-319-63543-9_17
40.	Microbial fuel cell and its efficiency in treating wastewater - A novel technique for wastewater treatment	Antony Fantin, B.   Ramesh, S.   Sudarsan, J.S.   Vanamoorthy Kumaran, P.	2018	01-01-2018	0	10.14419/ijet.v7i3.12.15865
41.	Removal of Rose Bengal dye from aqueous solutions using chitosan coated activated carbon prepared from Prosopis juliflora	Sriram, A.   Swaminathan, G.	2018	01-10-2018	0	-
42.	Dynamic Behavior of Marine Clay Soil Improved by Vertical Sand Drain	Vinothkumar, M.   Muthukkumaran, K.	2018	01-01-2018	0	10.1007/978-3-319-63543-9_20
43.	Estimating preliminary cost of project with historical usecases in agile to improve productivity	Manjula, R.   Thirumalai Selvi, R.	2018	01-05-2018	0	-