



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	2018-11-01	107	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	2018-03-15	85	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	2018-06-01	68	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	2018-06-01	58	10.1016/j.chemosphere.2018.02.155
5.	Pyrolysis of Musa balbisiana flower petal using thermogravimetric studies	Sriram, A. Swaminathan, G.	2018	2018-10-01	52	10.1016/j.biortech.2018.05.043
6.	Effect of temperature and thermal shock on concrete containing hazardous electronic waste	Kumar, K.S. Baskar, K.	2018	2018-04-01	17	10.1061/(ASCE)HZ.2153-5515.0000387
7.	Effect of Slope on p-y Curves for Laterally Loaded Piles in Soft Clay	Rathod, D. Muthukkumaran, K. Sitharam, T.G.	2018	2018-06-01	16	10.1007/s10706-017-0405-7
8.	Method to determine pedestrian level of service for sidewalks in Indian context	Marisamynathan, S. Lakshmi, S.	2018	2018-09-03	12	10.1080/19427867.2016.1264668
9.	Modeling pedestrian crossing behavior and safety at signalized intersections	Marisamynathan, S. Vedagiri, P.	2018	2018-04-01	11	10.1177/0361198118759075
10.	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	2018-04-03	10	10.1080/17486025.2017.1396363
11.	A new approach to estimate pedestrian delay at signalized intersections	Marisamynathan, S. Vedagiri, P.	2018	2018-01-01	9	10.3846/16484142.2016.1158208
12.	Empirical Approach for Determining Axial Strength of Circular Concrete Filled Steel Tubular Columns	Jayalekshmi, S. Jegadesh, J.S.S. Goel, A.	2018	2018-06-01	9	10.1007/s40030-018-0291-x

13.	Influence of sustainable materials in strength and durability of self-compacting concrete: a review	Chandru, P. Natarajan, C. Karthikeyan, J.	2018	2018-12-01	7	10.1007/s41024-018-0037-1
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	2018-01-01	7	10.1520/JTE20160006
15.	Knowledge-based decision support system for identification of crack causes in concrete buildings	Barkavi, T. Natarajan, C.	2018	2018-02-01	5	10.1007/s42107-018-0005-8
16.	Strengthening of thin-webbed castellated beam using CFRP	Cyril Thomas, A. Baskar, K.	2018	2018-11-02	5	10.1080/15502287.2018.1534153
17.	Behaviour of Laterally Loaded Piles in Soft Clay on Sloping Ground	Rathod, D. Muthukkumaran, K. Sitharam, T.G.	2018	2018-01-01	5	10.1007/978-3-319-63543-9_13
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	2018-01-01	4	10.14419/ijet.v7i3.12.15906
19.	Testing and evaluation of bond surface profile influencing the CFRP strengthening of steel members	Cyril Thomas, A. Baskar, K.	2018	2018-11-01	4	10.1520/JTE20170195
20.	Performance enhancement of green concrete	Suresh, G.V. Karthikeyan, J.	2018	2018-08-18	4	10.1680/jensu.15.00066
21.	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	2018-10-02	4	10.1080/17486025.2018.1445872
22.	Metaheuristic-based approach for state and process parameter prediction using hybrid grey wolf optimization	Sankaranarayanan, S. Sivakumaran, N. Radhakrishnan, T.K. Swaminathan, G.	2018	2018-07-01	3	10.1002/apj.2215
23.	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	2018-03-01	3	-
24.	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	2018-11-01	3	10.1007/s11356-018-3279-1
25.	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	2018-01-08	2	10.1109/SAI.2017.8252210
26.	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	2018-04-05	2	10.1088/1757-899X/330/1/012127

27.	Structural health monitoring: detection of concrete flaws using ultrasonic pulse velocity	Ravi Kumar, N.S.M. Barkavi, T. Natarajan, C.	2018	2018-12-01	2	10.1007/s41024-018-0036-2
28.	Tension field action in plate girder under various loading conditions	Natesh, P.S. Sarma, I.V. Baskar, K.	2018	2018-08-01	1	-
29.	Strengthening of brick masonry with welded wire mesh	Umamaheswari, V. Kanchidurai, S. Krishnan, P.A. Baskar, K.	2018	2018-01-01	1	10.14419/ijet.v7i3.12.15902
30.	Lateral Response of Socketed Pile Under Cyclic Load	Prakash, A.R. Muthukkumaran, K.	2018	2018-01-01	1	10.1007/978-3-319-63543-9_5
31.	Modified model for shear stress distribution using TRI-1 lunar soil simulant	Jayalekshmi, S. Kumar, P.G.	2018	2018-01-01	0	10.15632/jtam-pl.56.1.137
32.	Flow of Microbial Suspension Through Porous Media	Shashank, B.S. Rakshith, S. Joseph, J. Mohammad, A. Singh, D.N.	2018	2018-01-01	0	10.1007/978-3-319-61612-4_9
33.	Field Study on Response of Laterally Loaded Pile in Clayey Soil	Sivaraman, S. Muthukkumaran, K.	2018	2018-01-01	0	10.1007/978-3-319-63543-9_17
34.	Finite element evaluation of the behaviour of reinforced soil retaining walls	Karpurapu, R. Jayalekshmi, S.	2018	2018-01-01	0	-
35.	Removal of Xanthene class - Rose Bengal dye through polymer based adsorbent prepared from Calotropis gigantea: Kinetics and Thermogravimetric studies	Sriram, A. Swaminathan, G.	2018	2018-01-01	0	10.47915/jese.2018.v60i01.005
36.	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	2018-01-01	0	10.14419/ijet.v7i3.12.15865
37.	Removal of Rose Bengal dye from aqueous solutions using chitosan coated activated carbon prepared from Prosopis juliflora	Sriram, A. Swaminathan, G.	2018	2018-10-01	0	-
38.	Dynamic Behavior of Marine Clay Soil Improved by Vertical Sand Drain	Vinothkumar, M. Muthukkumaran, K.	2018	2018-01-01	0	10.1007/978-3-319-63543-9_20
39.	Estimating preliminary cost of project with historical usecases in agile to improve productivity	Manjula, R. Thirumalai Selvi, R.	2018	2018-05-01	0	-