



**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 (2019-20)**

S. No.	Title	Authors	Year	Full date	Citations	DOI
1.	Experimental Investigation on Behavior of a Laterally Loaded Single Pile Located on Sloping Ground	Rathod, D.   Muthukkumaran, K.   Thallak, S.G.	2019	01-05-2019	22	10.1061/(ASCE)GM.1943-5622.0001381
2.	Simulation of extreme event-based rainfall-runoff process of an urban catchment area using HEC-HMS	Natarajan, S.   Radhakrishnan, N.	2019	01-12-2019	21	10.1007/s40808-019-00644-5
3.	Organic removal and synthesis of biopolymer from synthetic oily bilge water using the novel mixed bacterial consortium	Uma, V.   Gandhimathi, R.	2019	01-02-2019	21	10.1016/j.biortech.2018.11.003
4.	Wastewater treatment by microbial fuel cell coupled with peroxicoagulation process	Jayashree, S.   Ramesh, S.T.   Lavanya, A.   Gandhimathi, R.   Nidheesh, P.V.	2019	01-12-2019	20	10.1007/s10098-019-01759-0
5.	Axial behaviour of semi-lightweight aggregate concrete-filled steel tube columns - A DOE approach	Abhilash, M.   Jhanjhari, S.   Parthiban, P.   Karthikeyan, J.	2019	01-11-2019	17	10.1016/j.jcsr.2019.05.004
6.	Investigations on gas permeability in porous media	Joseph, J.   Kuntikana, G.   Singh, D.N.	2019	01-04-2019	15	10.1016/j.jngse.2019.01.017
7.	Assessment of Groundwater Vulnerability Using GIS and DRASTIC for Upper Palar River Basin, Tamil Nadu	Venkatesan, G.   Pitchaikani, S.   Saravanan, S.	2019	01-10-2019	12	10.1007/s12594-019-1326-2
8.	Delineation of groundwater potential zones for hard rock region in Karnataka using AHP and GIS	Aggarwal, M.   Saravanan, S.   Jennifer, J.J.   Abijith, D.	2019	01-01-2019	7	10.1007/978-3-030-01440-7_71
9.	Strength characteristic of novel mesh embedment technique for new brick construction with least expensive material	Kanchidurai, S.   Krishanan, P.A.   Baskar, K.   Mohan, K.S.R.	2019	01-01-2019	7	10.1016/j.engstruct.2018.10.062

10.	Influence of nano-silica on characteristics of cement mortar and concrete	Varghese, J.   Gopinath, A.   Bahurudeen, A.   Senthilkumar, R.	2019	01-01-2019	6	10.1007/978-981-13-3317-0_75
11.	Studies on the sinkages of rigid plain wheels and lugged wheels on TRI-1 lunar soil simulant	Jayalekshmi, S.   Gireesh Kumar, P.	2019	01-04-2019	6	10.1016/j.jterra.2018.12.002
12.	Phosphate recovery from swine wastewater by struvite precipitation and process optimization using response surface methodology	Lavanya, A.   Ramesh, S.T.   Nandhini, S.	2019	01-10-2019	6	10.5004/dwt.2019.24447
13.	Influence of microstructure on drying- and wetting-characteristics of fine-grained soils	Iyer, K.K.R.   Shetty, R.   Joseph, J.   Singh, D.N.	2019	02-10-2019	5	10.1080/17486025.2019.1597283
14.	Pedestrian perception-based level-of-service model at signalized intersection crosswalks	Marisamynathan, S.   Vedagiri, P.	2019	01-12-2019	5	10.1007/s40534-019-00196-5
15.	Seismic performance of special concentric steel braced frames	Kumar, M.S.   Senthilkumar, R.   Sourabha, L.	2019	01-08-2019	5	10.1016/j.istruc.2019.03.012
16.	Effect of ultrafine ground granulated blast-furnace slag (UFGGBFS) and copper slag on ambient cured geopolymer concrete	Rathanasalam, V.   Perumalsami, J.   Jayakumar, K.	2019	01-01-2019	4	10.18280/acsm.430603
17.	Modeling commercial vehicle tour frequency for urban areas	Marisamynathan, S.   Thivya Raj, N.K.C.   Venkadvarahan, M.	2019	01-01-2019	4	10.1061/9780784482292.401
18.	Impact of land-use change on soil erosion in the Coonoor watershed, Nilgiris mountain range, Tamil Nadu, India	Saravanan, S.   Jacinth, J.J.   Singh, L.   Saranya, T.   Sivaranjani, S.	2019	01-01-2019	4	10.1007/978-3-030-01440-7_26
19.	Comparative study on treatment of cassava wastewater using free, immobilized and biofilm of trichoderma harzianum-trichoderma viride consortium	Saravanan, S.   Kumari, A.   Sriram, A.	2019	01-07-2019	4	10.5004/dwt.2019.24159
20.	Seawater-based mesoporous geopolymer as a sorbent for the removal and recovery of methylene blue from wastewater	Padmapriya, M.   Ramesh, S.T.   Biju, V.M.	2019	01-01-2019	4	10.5004/dwt.2019.23281
21.	Response of a slender cylindrical member under Breaking wave impact	Manjula, R.   Sannasiraj, S.A.	2019	01-04-2019	4	10.1007/s42241-019-0002-8
22.	Tree-based classification of mangrove forest using hyperspectral remote sensing data	Selvaraj, A.   Saravanan, S.	2019	01-01-2019	3	-

23.	Assessment of load carrying capacity of thin-webbed castellated beam	Cyril Thomas, A.   Baskar, K.	2019	01-01-2019	2	10.1007/978-981-13-0362-3_27
24.	Assessing Coastal Aquifer to Seawater Intrusion: Application of the GALDIT Method to the Cuddalore Aquifer, India	Saravanan, S.   Parthasarathy, K.S.S.   Sivaranjani, S.	2019	01-01-2019	2	10.1016/B978-0-12-814350-6.00010-0
25.	Performance of various media in vertical flow constructed wetland for the treatment of domestic wastewater	Soundaranayaki, K.   Gandhimathi, R.	2019	01-04-2019	2	10.5004/dwt.2019.23566
26.	Missing data estimation and IoT-based flyby monitoring of a water distribution system: Conceptual and experimental validation	Sankaranarayanan, S.   Swaminathan, G.   Radhakrishnan, T.K.   Sivakumaran, N.	2019	01-01-2019	2	10.1002/dac.4135
27.	Numerical simulation and response study of vertical cylinder under breaking waves	Muthu Subramanian, S.   Manjula, R.	2019	01-01-2019	1	-
28.	Numerical modelling and experimental investigation on the effect of wave attenuation due to coastal vegetation	Hemavathi, S.   Manjula, R.   Ponmani, N.	2019	01-01-2019	1	10.1007/978-981-13-3134-3_9
29.	Buckling Behaviour of Hollow Flange Channel Beam Sections in Bending	Senthilkumar, R.   Sunil, T.S.   Jayabalan, P.	2019	01-10-2019	1	10.1007/s13296-019-00219-1
30.	Water hammer vibrations in pressurized water distribution system: Conceptual development of dynamic model and validation	Sankaranarayanan, S.   Sivakumaran, N.   Radhakrishnan, T.   Swaminathan, G.	2019	01-09-2019	1	10.1002/apj.2345
31.	Utility of Landsat Data for Assessing Mangrove Degradation in Muthupet Lagoon, South India	Saravanan, S.   Jegankumar, R.   Selvaraj, A.   Jennifer, J.   Parthasarathy, K.S.S.	2019	01-01-2019	1	10.1016/B978-0-12-814350-6.00020-3
32.	Numerical modeling for wave attenuation by coastal vegetation using FLOW3D	Hemavathi, S.   Manjula, R.	2019	01-03-2019	1	-
33.	Assessment of saline water intrusion using geospatial techniques along the tuticorin coast of Tamil Nadu	Sakthivel, G.   Manjula, R.	2019	01-11-2019	0	-
34.	Analytical study of stress distribution models for estimation of stresses beneath plain rigid wheels and a vertical force on Tri-1 lunar soil simulant	Kumar, P.G.   Jayalekshmi, S.	2019	01-01-2019	0	10.15632/jtam-pl/110244
35.	Monitoring Spatial and Temporal Scales of Shoreline Changes in the Cuddalore Region,	Saravanan, S.   Parthasarathy, K.S.S.   Vishnuprasath, S.R.	2019	01-01-2019	0	10.1016/B978-0-12-814350-6.00004-5

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36.	Impact response of paver blocks with waste tyre crumb rubber	Bharathi Murugan, R.   Rama Sai, E.   Natarajan, C.	2019	01-01-2019	0	10.1007/978-981-13-0362-3_54
37.	Removal of rose bengal dye using low-cost adsorbent material	Sriram, A.   Swaminathan, G.	2019	01-01-2019	0	10.1007/978-981-10-8016-6_85
38.	An experimental study on comparison of curing pf concrete using natural resins and curing components	Sindhu, R.   Johnpaul, V.   Devi, A.N.   Senthilkumar, R.	2019	01-01-2019	0	-
39.	Effect of fire on reinforced concrete slab—numerical simulation	Haridharan, M.K.   Natarajan, C.	2019	01-01-2019	0	10.1007/978-981-13-0365-4_42
40.	An assessment of brick masonry strengthening practice by special methods	Kanchidurai, S.   Krishnan, P.A.   Baskar, K.	2019	01-09-2019	0	10.35940/ijrte.C4242.098319
41.	Internat ional perspectives on industrial concrete flooring and the way forward in India	Prafulla, P.S.   Jittin, V.   Bahurudeen, A.   Athira, G.   Senthilkumar, R.	2019	01-06-2019	0	-
42.	A GIS-based spatially distributed crop water demand modelling for Pullambadi canal command area in lower Cauvery basin, Tamil Nadu, India	Saravanan, S.   Jennifer, J.J.   Abijith, D.   Singh, L.	2019	01-01-2019	0	10.1007/978-3-030-01440-7_8
43.	Comparison of the efficiencies of organic and cellulosic substrates in removing sulfates and metals from acid mine drainage using continuous sulfate reducing bioreactor	Venkata Saravanan, R.   Ramesh, S.T.   Tejasri, G.	2019	01-01-2019	0	-