

KCG College of Technology
Department of Civil Engineering
Faculty Publication From 2018 to 2024

S.No	Name/Author	Title of the research Article	Name of Journal/Book Series/Proceedings	National or International	Year of Publication
1.	Vigneshkumar A, C. Freeda Christy, M. Muthukannan, M. Maheswaran, K. Arunkumar, R. Kanniga Devi	Experimental investigations on fresh and mechanical properties of fly ash and ground granulated blast furnace slag self-compacting geopolymer concrete	Materials Today: Proceedings	International	2024
2.	S Selva Birunda, R Kanniga Devi, M Muthukannan	An efficient model for detecting COVID fake news using optimal lightweight convolutional random forest	Signal, Image and Video Processing	International	2024
3.	AV Santhosh Kumar, N Suresh Kumar, R Kanniga Devi, M Muthukannan	Analysis of Deep Learning-Based Approaches for Spam Bots and Cyberbullying Detection in Online Social Networks	AI-Centric Modeling and Analytics	International	2024
4.	Philips, J., R. L. Lija, and V. Vandhana Devi, Leeba Grace, P., Sathish, S.	Influence of Nanosilica and Microsilica on Mechanical and Microstructural Properties of Self-cured Fibre-Blended Concrete	Lecture notes in civil engineering, Springer Nature Singapore	International	2024
5.	A Udhayakumar, K Mayandi, N Rajini, R Kanniga Devi, M Muthukannan, M Murali	Extraction and Characterization of Novel Natural Fiber from Cryptostegia Grandiflora as a Potential Reinforcement in Biocomposites	Journal of Natural Fibers	International	2023
6.	AV Santhosh Kumar, N Suresh Kumar, R Kanniga Devi, M Muthukannan	18 Analysis of Deep Learning-Based	AI-Centric Modeling and Analytics: Concepts, Technologies, and Applications	International	2023

7.	Selva B Shanmugavel, Kanniga Devi Rangaswamy, Muthiah Muthukannan	A Deep Learning Model to Detect Fake News about COVID-19	Recent Advances in Computer Science and Communications	International	2023
8.	Suresh Sethu, Mayandi Kalimuthu, Rajini Nagarajan, Sikiru O Ismail, Kanniga Devi, M Muthukannan, M Murali, Faruq Mohammad, Hamad A Al-Lohedan	Thermal, chemical, tensile and morphological characterization studies of bamboo fibre extracted from the indian species bambusa bambos	Materials Research Express	International	2023
9.	R Kanniga Devi, M Muthukannan, A Udhayakumar, N Rajini, K Mayandi, M Murali	Effect of hybridization on natural fibre reinforced hybrid polymer composites and their applications	AIP Conference Proceedings	International	2023
10	Suresh Sethu, Mayandi Kalimuthu, Rajini Nagarajan, Kanniga Devi, M Muthukannan, M Murali	Characterization on a physical and mechanical bamboo surface treated and untreated fiber	AIP Conference Proceedings	International	2023
11	A Udhayakumar, K Mayandi, N Rajini, R Kanniga Devi, M Muthukannan, M Murali, Sikiru O Ismail, Faruq Mohammad, Hamad A Al-Lohedan	Effect of chemical treatment on physico-chemical properties of a novel extracted cellulosic Cryptostegia grandiflora fiber*	Materials Research Express	International	2023
12	Lija Rajamony Laila , Aarthi Karmegam , Siva Avudaiappan , Erick I Saavedra Flores	Microstructure and Water Retention Kinetics in Autogenous Cured Self-Compacting Concrete Blends Using Super Absorbent Polymer	Polymers	International	2023

13	S.Selva Birunda, R.Kanniga Devi, M Muthukannan, M.Mahesh Babu	ACOVMD:Automatic COVID-19 misinformation detection in Twitter using self-trained semi-supervised hybrid deep learning model	International Society Science	International	2023
14	Muthiah Muthukannan, Kadarkarai Arunkumar, Arunachalam Sureshkumar, Arunasankar Chithambar Ganesh, Rengaswamy Kanniga Devi	Mechanical characterisation of waste wood ash-based green geopolymer concrete incorporated with waste rubber and polypropylene fibre	International Journal of Environment and Waste Management	International	2023
15	Philips, J., R. L. Lija, and V. Vandhana Devi	Mechanical Properties of Concrete with Micro Level Reinforcement Using Natural and Synthetic Fibres	Lecture notes in civil engineering, Springer Nature Singapore	International	2023
16	C. Akin, V. Preethi, and K. Vignesh	Experimental Analysis of Bubble Deck Slab and Its Application for Sustainability in the Ecology Dimension	Lecture notes in civil engineering, Springer Nature Singapore	International	2023
17	Shane Abraham, R. L. Lija, and V. Vandhana Devi	Behavior of self-cured self-compacting concrete filled short channel columns under axial compression	Materials Today: Proceedings	International	2023
18	Babypriya Devi Tongbram , Haobijam Kenedy Singh	A comparative study on partial replacement of coarse aggregates in concrete with sustainable waste materials	Materials Today: Proceedings	International	2023
19	S. Udhaya , V. Vandhana Devi , J. Philips, R.L. Lija	Experimental study on bio-concrete for sustainable construction	Materials Today: Proceedings	International	2023
20	V. Vandhana Devi, C.K. Akhila	Resilience to climate change and environmental perturbations – A road map for Chennai city, India	Materials Today: Proceedings	International	2023
21	Philips, J., V. Vandhana Devi, and R. L. Lija	Strength and durability characteristics of concrete blended with micro level fibres	Materials Today: Proceedings	International	2023

22	Lija, R. L., J. Philips, and V. Vandhana Devi	Influence of waste foundry sand on microstructural and mechanical behavior of self-consolidated concrete filled steel columns	Materials Today: Proceedings	International	2023
23	A Udhayakumar, , K Mayandi, , N Rajini , R Kanniga Devi, , M Muthukannan, , M Murali, Sikiru O Ismail, , Faruq Mohammad and Hamad A Al-Lohedan	Effect of chemical treatment on physico-chemical properties of a novel extracted cellulosic Cryptostegia grandiflora fiber	Materials Research Express	International	2023
24	Sathish Kumar, R., Vandhana Devi, V., Nivedhitha, D.M., Bharath Sharma, S., Sathish Kumar, S.B.	Effect of nanoparticles in natural fiber reinforced polymer composites	Materials Today: Proceedings	International	2023
25	Jijo James and V. Vandhana Devi	Bauxite residue as a binary additive in lime treated soil composites	Materials Today: Proceedings	International	2023
26	E. Pravin Raaj, K. Bhuvaneshwari,R. Lakshmipathy ,V. Vandhana Devi and Ivan Leandro Rodriguez Rico	Garlic Peel Surface Modification and Fixed-Bed Column Investigations towards Crystal Violet Dye	Adsorption Science & Technology	International	2022
27	Y. Rekha,S. Suriya, H.M. Hamedul Irshad	Comparative study on oven curing of Geo-polymer concrete over conventional concrete	Materials Today: Proceedings	International	2022
28	V. Kishor Kumar, N. K. Rajan, V. Vandhana Devi, Gitesh Kaushik	Relationship between Gaestel Index and rheology of blended bitumens	AIP Conference Proceedings	International	2022
29	J. John Alexander	Sustainability of Irrigation through Shallow Wells: A Case Study in Tamilnadu, India	Alinteri Journal of Agricultural Sciences	International	2021

30	Kavitha P	Characteristic Studies on Partial Replacement of Cement with Metakaolin and Fine aggregate with Silica sand in SCC	International Journal of Innovative Research in Science, Engineering and Technology (IJRSET)	International	2021
31	C.K. Akhila, V. Vandhana Devi* and V. Gitanjali	Design and Development of Smart Biomonitoring System using Internet of Things	Indian Journal of Ecology	International	2021
32	J.John Alexander, Kathir Prasanna R, Pragatheeshwari.T, Saroon Abishek.G and Ezhil Sundaran.K	Understanding water level fluctuations in shallow aquifers for better cropping pattern	2nd International Conference on multidisciplinary Innovation in Academic Research, (ICMIAR-2021),	International	2021
33	J.John Alexander, Kishore Kumar.N, Sai Ashwin.B, Sarath kumar.S and Vishwa.J	Sustainability of Irrigation through Shallow Wells: A Case Study in Tamilnadu, India	Alinteri Journal of Agricultural Sciences	International	2021
34	V. Kishor Kumar, V. Vandhana Devi, N. K. Rajan	Effect of Sugarcane Bagasse Ash and Cement on the Engineering Properties of Soft Clay Soil	International Journal of Advance Science and Technology	International	2020
35	Rekha Y, Andal V , Suriya S	Harvesting condensate into potable water	International Journal of Advanced Science and Technology	International	2020
36	P. Kavitha, M. Pitchi Rajan, Dr.V.Vandhana Devi, Ann Mary Mathew	Experimental study on effects of reactive RHA and curing conditions on GeoPolymer concrete	International Journal of Advanced Science and Technology	International	2020
37	V. Kishor Kumar, K. Ilamparuthi	Performance of anchor in sand with different forms of geosynthetic reinforcement	Geosynthetics International	International	2020
38	Prasath K S, Kavitha P, Subalakshmi R, Suvedha R	Enhancing the Performance of Recycled Coarse Aggregate Concrete Through the use of Supplementary Cementing Material	International Journal of Advanced Science and Technology	International	2020
39	Ms. F.S.Frieda, Ms.V. Sherin, Ms. M.Kalaivani	Experimental investigation on traffic congestion control and maintenance system using internet of things	AIP Conference Proceedings	International	2020

40	Ms. V. Sherin	Finite Element Analysis on the Mechanical Behaviour of High Strength Rubberized Concrete	Journal of Seybold Report	International	2020
41	C.Akin, V.Vandhana devi	Mitigation of energy consumption impact by planning and formulation of environmental management system for Indian infrastructure projects	Lecture notes in civil engineering	International	2020
42	F.S.Frieda	Numerical simulation and experimental investigation on seismic performance of composite structural connection of encased CFST column and reinforced concrete beam with steel ring”	The Open Construction & Building Technology Journal		2020
43	P. S. Aravind Raj, F. S. Frieda, S. P. Sangeetha, R. Divahar	Reinforced Concrete Beam with Light Weight blocks and Steel Fibre added below Neutral Axis	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	International	2019
44	Devi, V.V., Deepak, R.	Modeling of tidal inlet of pulicat lagoon	Indian Journal of Ecology,	International	2019
45	V. Sherin and M. Kalaivani	Compression Behaviour Of Self Compacting Concrete Columns Using High Strength Steel Wires As External Confinement	International Journal of Civil Engineering and Technology (IJCET)	International	2018
46	Vandhana Devi V, P S Aravind Raj, F. S. Frieda	Analytical Study on Improved Connection System for Steel Concrete Composite Column and Reinforced Concrete Beam	International Journal of Pure and Applied Mathematics	International	2018
47	P Kavitha, J John Alexander, Ann Mary Mathew	An analytical study on high performance concrete incorporated with industrial by- products	International Journal of Pure and Applied Mathematics	International	2018