KCG COLLEGE OF TECHNOLOGY
Karapakkam, Chennai 600 097

DEPARTMENT OF CIVIL ENGINEERING

Faculty – Research Publication Details - 2026

S. No.	Faculty Name	Article	Journal Name	SCI / WoS / Scopus
1	L. Krishnaraj, G. Nakkeeran, Sumant Nivarutti Shinde, **S. Thenmozhi**, George Uwadiegwu Alaneme, Mutiu Shola Bakare & Ebenezer Esenogho	Machine learning–driven insights into nano fly ash synergy for advanced mortar performance optimization	Discover Applied Sciences	SCI/WoS / Scopus
2	**R Surya Prakash,** N.Parthasarathi	A bibliometric overview of research on rehabilitation practices for fire-affected reinforced concrete structures	European Journal of Environmental and Civil Engineering	SCIE
3	Seeniappan Kaliappan, L. Natrayan, **M. Muthukannan**, A. George Fernandez Raj, Ramya Maranan, Vinayagam Mohanavel, Manzoore Elahi M. Soudagar & V. P. Arthanarieswaran	Performance evaluation of silane-treated sandwich-structured AL2O3 coated glass fabric and puya mirabilis fiber reinforced polyester composites	Polymer Bulletin	WoS / Scopus
4	K. Pratheesh, Seeniappan Kaliappan, L. Natrayan, **M. Muthukannan**, N. Balaji, M. Ramya, Manzoore Elahi M. Soudagar, Sami Al Obaid & Sulaiman Ali Alharbi	Effect of silane surface treatment on aged areca fiber-latex rubber waste powder vinyl ester composite: creep, fatigue, drop load impact and water absorption behavior	Polymer Bulletin	WoS / Scopus

5	Vigneshkumar Alagarsamy,C.Freeda Christy, **M. Muthukannan**, U. Johnson Alengaram	Analytical and experimental study on the behavior of self-compacting geopolymer concrete with nanosilica	Structure Concrete Journal Of The Fib	WoS / Scopus
6	R. Chandramohan, Seeniappan Kaliappan, M. Ramya & **M. Muthukannan**	Development of a PVA-based biocomposite film reinforced with ginger-stalk microfibers and pumpkin-seed-husk cellulose, toughened with clove oil for antimicrobial packaging application	Polymer Bulletin	WoS / Scopus
7	**M. Subbulakshmi** & Sachikanta Nanda	Integrating artificial neural networks and earth observation data for flood susceptibility mapping: a case study of Cuddalore District, Tamil Nadu, India	Journal of the Indian Society of Remote Sensing	SCI
8	**Dr.M. Subbulakshmi,** Sachikanta Nanda	Integrating ANN and Landscape Parameters for Flood Susceptibility Mapping and Sustainable Management, Semi-Arid Region, Tamil Nadu, India	Springer Proceedings in Geography and Sustainability	-
9	**Dr.M. Subbulakshmi,** Sachikanta Nanda	Influence of Land Use and Land Cover Changes on Hydrology in Chidambaram Taluk: A Comprehensive Study on the Impacts of Changing Climate	Water Science and Technology Library	-
10	Seeniappan Kaliappan, Naveen Kilari, L. Natrayan**, M. Muthukannan**, M. Ramya, Sathish Kannan, Vinayagam Mohanavel, Manzoore Elahi M. Soudagar	Role of macadamia shell nut extracted silicon carbide and natural fiber-reinforced PVA composite and its mechanical, thermal conductivity, dielectric and EMI shielding effectivenes	Journal of Thermoplastic Composite Materials	SCIE + Scopus
11	S. Lakshmana Kumar, S. Kaliappan, L. Natrayan, **M. Muthukannan**	Effect of sugarcane lignin and Bagasse fiber on the mechanical and thermal performance of vinyl ester composites	Polymer Bulletin	SCIE + Scopus

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Faculty – Research Publication Details - 2025

S. No.	Faculty Name	Article	Journal Name	SCI / WoS / Scopus
1	Asha Bharathi, S. Rathod, Jayantkumar A. **Thenmozhi, S.** Kiruba, S. Kumar, M.	Monitoring Vehicle Emissions Through Intelligent Transportation Systems for Smart City Development: Emission-Aware Mobility	AI, Cybersecurity, and Next-Generation Mobility in Smart Cities	Scopus
2	**Thenmozhi**, Amal Alshardan, Abdulaziz G Alghamdi & T Pradeep	Multi-scale strength and characteristic assessment of soil materials using multi-source remote sensing and machine learning	Journal of Earth System Science	SCIE + Scopus
3	T. J. Rajeeth, Anurag Sharma, Ravichandra Honnalli, Sudheerkumar Yantrapalli, Sumant Nivarutti Shinde, **S. Thenmozhi**	Experimental investigation and optimization of cellular light weight concrete using foam content and prediction using response surface methodology	Discover Sustainability	SCIE + Scopus
4	N. Lakshmaiya, Seeniappan Kaliappan, **M. Muthukannan**, T. Roseline Velankanni	Bayesian Network-Based Attention Mechanism for Data Fusion in ADAS Vehicular Scenario	5th International Conference on ICT in Business Industry & Government (ICTBIG)	Scopus
5	L. Natrayan, Seeniappan Kaliappan**, M. Muthukannan,** R. Priyadharshini	GNN-Based Data Integration Using Ensemble Learning for Autonomous Vehicle Systems	5th International Conference on ICT in Business Industry & Government (ICTBIG)	Scopus

6	N. Lakshmaiya, Seeniappan Kaliappan, **M. Muthukannan**, R. Priyadharshini, M. Ramya	Soft Actor Critic Reinforcement Learning for Decentralized Secured Drone System	5th International Conference on ICT in Business Industry & Government (ICTBIG)	Scopus
7	Selva Birunda Shunmugavel, Suresh Kumar Nagarajan, Kanniga Devi Rangaswamy, **Muthukannan Muthiah**	A Hybrid Framework for Fake News Detection Using Explainability of Artificial Intelligence	Recent Patents on Engineering,	Scopus
8	L. Natrayan, Maddur Pedda Chennaiah, Seeniappan Kaliappan, **M. Muthukannan**	Characterization study on fatigue, shear, magnetic and electromagnetic shielding effectiveness of biomass extracted silver nanoparticle, carbon quantum dots, cissusquadrangularis fiber-reinforced polyester composite	Journal of Materials Science: Materials in Electronics	SCIE + Scopus
9	L. Natrayan, Seeniappan Kaliappan, Beena Stanislaus Arputharaj, **M. Muthukannan**	Federated Learning-Enabled Edge Intelligence for Sustainable Smart Cities	6th International Conference on Electronics and Sustainable Communication Systems (ICESC)	Scopus
10	L. Natrayan, Seeniappan Kaliappan, Beena Stanislaus Arputharaj, **M. Muthukannan,** M. Ramya	Intelligent Mobility Model for Sustainable Urban Transport using Remote Sensing and AI	6th International Conference on Electronics and Sustainable Communication Systems (ICESC)	Scopus
11	L. Natrayan, Seeniappan Kaliappan, Beena Stanislaus Arputharaj, **M. Muthukannan,** M. Ramya	Energy Efficient Virtualized IoT Framework using Low Power LPWAN Technologies	6th International Conference on Electronics and Sustainable Communication Systems (ICESC)	Scopus

12	Seeniappan Kaliappan, Naveen Kilari, L. Natrayan, **M. Muthukannan**, M. Ramya, Sathish Kannan, Vinayagam Mohanavel, Manzoore Elahi M. Soudagar	Performance evaluation of PVA composites reinforced with macadamia shell-based silicon carbide and natural fibers for EMI shielding applications	Polymer Bulletin	SCIE + Scopus
13	Seeniappan Kaliappan, L. Natrayan, **M. Muthukannan**, A. George Fernandez Raj, Ramya Maranan, Vinayagam Mohanavel, Manzoore Elahi M. Soudagar, A. H. Seikh	Static and Dynamic Analysis of Sandwiched Silane Treated Aluminum Coated Glass Fabric and Pineapple Fibre/Granite Dust Polyester Composite	Fibers and Polymers	SCIE + Scopus
14	Vigneshkumar Alagarsamy, C. Freeda Christy, **M. Muthukannan,** U. Johnson Alengaram	Fresh, hardened properties and microstructural analysis on the effect of NaOH molarities of industrial by-products based self-compacting geopolymer concrete	International Review of Applied Sciences and Engineering	Scopus
15	**Akin Chellathangam**; Aniket Sutradhar	Environmental consequences and reduced cement use in the mechanical activation process for sulphate tailings treatment using residues	AIP Conference Proceedings	Scopus
16	Dr.R.L. Lija	A Study on Sustainable Lightweight Concrete using Autoclaved Aerated Concrete block and Pumice Stone	Lecture notes in Civil Engineering	Scopus
17	Melvin Anderson P, T. K. Ramesh, **Akin C**	Design and Development Of A Smart Mobile Robot For Light Intensity Following	International journal of Environmental Sciences	Scopus

18	Vigneshkumar Alagarsamy, Clementz Edwardraj Freeda Christy, **Muthukannan Muthiah**, Ubagaram Johnson Alengaram	Influence of alkaline binders on the workability and strength of self compacting geopolymer concrete;	Materials Protection	Scopus
19	Vigneshkumar Alagarsamy, Clementz Edwardraj Freeda Christy, **Muthukannan Muthiah**, Ubagaram Johnson Alengaram	Investigation of superplasticizer influence on rheological and strength properties of self-compacting geopolymer concrete;	Materials Protection	Scopus
20	R. Chandramohan, Seeniappan Kaliappan, L. Natrayan, **M. Muthukannan**	Optimization of tensile and water absorption properties of biosilica dispersedcardanol oil blended PLA/PCL biocomposite for packaging applications	Journal of the Australian Ceramic Society	SCIE + Scopus
21	S. Jeevanantham, Seeniappan Kaliappan, L. Natrayan, **M. Muthukannan**	Influence of peanut husk derived heat-treated Si3N4 on load bearingproperties of basalt fibre-reinforced polyester composite	Journal of the Australian Ceramic Society	SCIE + Scopus
22	Nitika Verma; **M.Muthukannan**; Seeniappan Kaliappan; E. Afreen Banu; Donamol Joseph; Divyanshu Sharma	MobileNetV3-Large for Retinopathy Severity and Edema Risk from FundusImages and Clinical Captions	IEEE Proceedings	Scopus
23	Madhamanchi Sreevani, Seeniappan Kaliappan, **M. Muthukannan,** Divya Bhardwa	Deep Learning-Based Classification of Nail Diseases Using ResNet101: A Studyon Healthy Nails, Onychomycosis, and Psoriasis	IEEE Proceedings	Scopus

24	Seeniappan Kaliappan; **M.Muthukannan**; Sonam Jain; Manmeet Kaur; Disha Garg; Ramdas Khomane	InceptionV3-Based Classification of Night Jasmine Leaf Diseases: Advancing Early Detection in Precision Agriculture	IEEE Proceedings	Scopus
25	Pratham Kaushik; Manikandan I; **M. Muthukannan**; T. Roseline Velankanni; Sheela S; Divyajot Divyajot	Lightweight Vision-Based Classification of Coconut Leaf Diseases and Pest Infestation Using GhostNetV2	IEEE Proceedings	Scopus
26	T. Roseline Velankanni; **M.Muthukannan**; Alok Misra; Dipannita Ray; Yashasvi Saini; Manish Kumar Singla	Lemon Quality Detection Using MobileNetV3-Large for Automated Classification	IEEE Proceedings	Scopus
27	**Muthukannan M** , Kumar J.A.Muthuvel S.; Sudhakarapandian R.; Radhakrishnan G.G.;	Comparison of Organic and In-organic Phase Change Materials on Curing Time and Mechanical Properties of Geopolymer Bricks in Passive Solar Dryers	Journal of Environmental Nanotechnology	Scopus
28	**Muthukannan M** , Patil U.S.; Kaliappan S.; Natrayan L.; Mothilal T.; Devi N.D	Optimized Energy Management in Renewable Energy Integrated Microgrids Using Pyramidal Dilation Attention Convolutional Neural Networks	Journal of Environmental Nanotechnology	Scopus
29	**Muthukannan,,** Maheswaran M.; Christy C.F.	Synergistic effect of agro-industry by-product and silica nanoparticle on thefresh, mechanical, durability and microstructure enhancement of fly ash andGGBS-based geopolymer concrete	European Journal of Environmental and Civil Engineering	SCIE + Scopus

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Faculty – Research Publication Details - 2024

S. No.	Faculty Name	Article	Journal Name	SCI / WoS / Scopus
1	Seeniappan Kaliappan, R Maranan; **M. Muthukannan**; Ram Deshmukh; Jegan Gnanasekaran; M. Ramya	An Optimized Hamiltonian Quantum Generative Network Based Drug-Drug Interactions Prediction Through Combining Local And Global Features	2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE)	**Scopus**
2	Seeniappan Kaliappan; **M. Muthukannan**; N. Durga Devi; M M Irfan; R Maranan; M. Ramya	A Novel Approach to Hand Gestures Recognition Using Optimized Quantum GAN and ResNet-152 Features	9th International Conference on Engineering Technologies and Applied Sciences	**Scopus**
3	M. Vinod Kumar, K. Rajesh Kumar, N. Gurumoorthy**, M. Muthukannan**	State of art on implementation of different types of fine aggregates for clean and sustainable environment	AIP Conference: Proceedings	**Scopus**
4	N. J. Divya, N. Suresh Kumar, R. Kanniga Devi, **M. Muthukannan**	AE-Obi-LSTM: An Efficient IOT Wearable Devices for Cardiovascular Disease Prediction	International Work-Conference on Bioinformatics and Biomedical Engineering	**Scopus**
5	N Poyyamozhi, **M Muthukannan**, P Chandrakumar, B Srimanickam, K Elangovan	Performance investigation on photovoltaic thermal collector by using zinc oxide nanofluids	Interactions	**Scopus**

6	Kaliappan Seeniappan, A Krishnakumari, M Shanmugapriya, **M Muthukannan**	Analysing Renewable Power Integration in Edible Devices on Variable Rate Pumped Storage	Design and Optimization of Wearable, Implantable, and Edible Antennas	**Scopus**
7	Mohammed Saleh Al Ansari, Kaliappan Seeniappan, G. Bharath Reddy, **M. Muthukannan**, Ramya Maranan, ParthaSarathi Mishra	Estimation of Machining Performance in Wire EDM of Aluminum Silicon Nitride Composite an Experimental Analysis and ANN Modeling	E3S Web of Conferences	**Scopus**
8	Avinash Malladi, T Mothilal, Seeniappan Kaliappan, Lava Kumar Polisetty, **M Muthukannan**, Ramya Maranan	A Comparative Analysis of ANN and taguchi for Enhancing Predictive modelling and optimisation for Al-Base Metal Matrix Composites reinforced with nanoparticles of SiC	E3S Web of Conferences	**Scopus**
9	S Senthil, N Poyyamozhi, R Sathiyamoorthi, N Dilip Raja, **M Muthukannan**	Experimental analysis of hemispherical combustion geometry of diesel engine (neem oil) biodiesel with nano additives	Interactions	**Scopus**
10	N Poyyamozhi, **M Muthukannan**, K Elangovan, A Saranya, P Chandrakumar	Optimizing hybrid solar collector efficiency with MgO/CNT nanofluid: a response surface methodology investigation	Interactions	**Scopus**
11	Utkal Surseh Patil, A Krishnakumari, M Saravanan, **M Muthukannan**, Ramya Maranan, R Rambabu	An Advanced Hybrid Algorithm (haDEPSO) for Engineering Design Optimization Integrating Novel Strategies for Enhanced Performance	Metaheuristics Algorithm and Optimization of Engineering and Complex Systems	**Scopus**

12	Theressa Michael, Arunkumar Kadarkarai, **M. Muthukannan,** P. Swaminathan, Asish Kumar	Experimental Behaviour of Hybrid Fiber-Reinforced Low Calcium Ferro Geopolymer Paver Block	E3S Web of Conferences	**Scopus**
13	S Selvakanmani, Seeniappan Kaliappan, **M Muthukannan**	Recognition of Cyber Physical Systems Through Network Security for Wireless Sensor Networks: Using Artificial InIntelligence in Cyber Physical Systems	Intelligent Solutions for Sustainable Power Grids	**Scopus**
14	M. Pawar Singh, V. Mahor, N. Lakshmaiya, K. Shanker, S. Kaliappan, **M. Muthukannan,** G. Rajendran	Prediction of groundwater contamination in an open landfill area using a novel hybrid clustering-based AI model	Environment Protection Engineering	**Scopus**
15	C Freeda Christy, **M Muthukannan**, U Johnson Alengaram, M Maheswaran, Nittin Johnson Jeyaraj	Study of silicon dioxide nanoparticles on the rheological and mechanical behaviors of self-compacting geopolymer concrete	International Review of Applied Sciences and Engineering	**Scopus**
16	NJ Divya, R Kanniga Devi, **M Muthukannan**	Privacy-Aware IoT-Based Multi-Disease Diagnosis Model for Healthcare System	Computer Vision and AI-Integrated IoT Technologies in the Medical Ecosystem	**Scopus**
17	Seeniappan Kaliappan, **M Muthukannan**, A Krishnakumari, S Socrates	Impact of Electronic Power Aging on Implantable Antennas: Insights Into Leakage and Current Characteristics of HV Armature Winding	AI Approaches to Smart and Sustainable Power Systems	**Scopus**
18	Selva Birunda S., Kanniga Devi R., Suresh Kumar N., and **M. Muthukannan**	On the Effect of Intelligent Neurally Processed Features on COVID–19 Fake News Detection Performance	Nanotechnology Perceptions	**Scopus**

19	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	**SCI**
20	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 Social Science Journal	**SCI**
21	Seeniappan Kaliappan, V Paranthaman, L Natrayan, Bura Vijay Kumar, **M Muthukannan**	Leveraging Machine Learning Algorithm for Predicting Personality Traits on Twitter	International Conference on Cloud Computing, Data Science & Engineering (Confluence)	**Scopus**
22	M. Maheswaran , C. Freeda Christy, **M. Muthukannan**, K. Arunkumar, and A. Vigneshkumar	Parametric Study on Strength Performance of Geopolymer ConcreteUsing Industrial By-Products	Lecture Notes in Mechanical Engineering	**Scopus**
23	Seeniappan Kaliappan; V. Paranthaman; M.D. Raj Kamal; Sudhakar AVV; **M. Muthukannan**	A Novel Approach of Particle Swarm and ANT Colony Optimization for Task Scheduling in Cloud	2024 14th International Conference on Cloud Computing, Data Science & Engineering (Confluence)	**Scopus**
24	NJ Divya, R Kanniga Devi, **M Muthukannan**	Privacy-Aware IoT-Based Multi-Disease Diagnosis Model for Healthcare System	Computer Vision and AI-Integrated IoT Technologies in the Medical Ecosystem	**Scopus**
25	V. Gowri**, S. Thenmozhi**, Shrinwantu Raha, P. Selvakumar,Sagar Kashinath Khokale	Climate Change and the Deep Sea	Technological Advancements for Deep Sea Ecosystem Conservation and Exploration	**Scopus**

26	Sankarapandian K.; Athibaranan S.; Balu K.; **Thenmozhi S**.; Sellamuthu B.Sankarapandin	Revolutionising Concrete: Harnessing Sustainable Nanomaterials For Enhancing Strength And Durability Performance	Journal of Environmental Protection and Ecology	**Scopus**
27	Prasath Palaniappan, Gowri Velu, **Thenmozhi Somasundaram**, Vadivel Murugesan	A comparative study of sustainable mix incorporating recycled aggregates	Revistamateria	**SCI**
28	**S. Thenmozhi**, A. Mohan, Kotteeswaran Santhanam, Mary Subaja Christo	Enhancing lime mortar carbonation using natural polymers from Prosopis Juliflora	The European Physical Journal Plus	**SCI**
29	Fartode A.P, Vijayagopal V.; Ahlawat A.; Chandak A.V.; **Thenmozhi S**.; Patra J.P.; Alam S.	Present Situation Of Water Quality And The Advancement Of Technology In Water Pollution Management	Journal of Environmental Protection and Ecology	**Scopus**
30	Jaidev Kumar, Rajlaxmi Pujar, **S. Thenmozhi**, Aaliyah Siddiqui	Optimized MSVM-RFE Model for Enhanced Urban Air Quality Management and Decision Support	2024 International Conference on Data Science and Network Security (ICDSNS)	**Scopus**
31	L. Ramgopal, R. S. Gandhimathi, S. Dhipanaravind, G. Mallikarjuna Rao, **S. Thenmozhi,** V. Sre Adethya	An investigation of the bio-medical waste ash on cement mortar bricks	Materials Today: Proceedings	**Scopus**
32	Subashree Paramasivan, R Ramesh, S **Thenmozhi,** D Pradeep Kumar, S Vivek D A	Ceramic Tile Mix Optimisation: Green Innovations With Red Mud, Fly Ash, And	Journal of Environmental Protection and Ecology	**Scopus**

		Ceramic Waste		
33	V. Gowri, **S. Thenmozhi,** A. S. Panneerselvam, M. Vadivel, R. Gupta, V. Sathish Kuma	Integrated Strategies For Addressing The Water Scarcity	Journal of Environmental Protection and Ecology	**Scopus**
34	Anil Shirgire, **S. Thenmozhi**, V. Praveen Jesuraj, Abhay Shelar, Vivek S. Chavhan, Vijaykumar Javanjal	Experimental study on high performance concrete using rice husk ash	International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing	**Scopus**
35	Anil Shirgire, M. Deepak, **S. Thenmozhi**, Anurag Sharma, Shital Pawar, J. Prakash Arul Jose	Experimental study on brick performance using quartz material and woods ash	International Conference on Advances in Materials, Mechanics, Mechatronics and Manufacturing	**Scopus**
36	Satish Ramesh Patil, Manish Kumar Sinha, Mrunalini Amol Deshmukh, **S. Thenmozhi** & A. Sujatha	Predicting and forecasting building energy performance using RSM and ANN	Asian Journal of Civil Engineering	**Scopus**
37	Shane Abraham, **R. L. Lija,** V. Vandhana Devi	Behavior of self-cured self-compacting concrete filled short channel columns under axial compression	Materials Today: Proceedings	**Scopus**
38	Babypriya Devi Tongbram, Haobijam Kenedy Singh, **V Vandhana Devi**	A comparative study on partial replacement of coarse aggregates in concrete with sustainable waste materials	Materials Today: Proceedings	**Scopus**
39	**V. Vandhana Devi**, C.K. Akhila	Resilience to climate change and environmental purturbations – A road map for Chennai city, India	Materials Today: Proceedings	**Scopus**

40	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	**Scopus**
41	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	**Scopus**
42	**V Vandhana Devi**, Venkatesa Prabhu Sundramurthy, Daoud Ali, Saud Alarifi, Mika Sillanpaa	Batch and continuous adsorptive removal of brilliant green dye using modified jamun seed powder: RSM based optimization	Chemical Engineering Communications	**SCI**

Faculty – Research Publication Details - 2023

S.No	Name of the Faculty	Title of the Paper	Name of the journal/ Conference Proceedings	Month and year
1	S. Udhaya , V. Vandhana Devi , J. Philips, R.L. Lija	Experimental study on bio-concrete for sustainable construction	Materials Today: Proceedings	April 2023
2	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	April 2023

3	Philips, J., V. Vandhana Devi, and R. L. Lija	Strength and durability characteristics of concrete blended with micro level fibres	Materials Today: Proceedings	May 2023
4.	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	May 2023
5.	Jijo James and V. Vandhana Devi	Bauxite residue as a binary additive in lime treated soil composites	Materials Today: Proceedings	May 2023
6.	S. Udhaya , V. Vandhana Devi , J. Philips, R.L. Lija	Experimental study on bio-concrete for sustainable construction	Materials Today: Proceedings	April 2023
7.	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	April 2023
8.	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	December 2023
9	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	Dec 2022

10.	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	2023
11.	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	Nov 2023
12.	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	November 2023
13.	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	October 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	October 2023
15.	K. Karthikeyana,*, T. Mothilal, V. Vandhana Devi	Performance analysis of pulsed direct current electrocoagulation for chemical oxygen demand removal from wastewater: energy savings and cost minimization	Desalination Publications.	October 2023.

16.	Lija Rajamony Laila , Aarthi Karmegam , Siva Avudaiappan , Eric k I Saavedra Flores	Microstructure and Water Retention Kinetics in Autogenous Cured Self-Compacting Concrete Blends Using Super Absorbent Polymer	Polymers	September 2023
17.	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	August 2023
18.	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	August 2023
19.	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	July 2023
20.	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,	July 2023
21	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	31 July 2023

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Faculty – Research Publication Details – 2022

S.No	Name of the Faculty	Title of the Paper	Name of the journal/ Conference Proceedings	Volume, issue, page, Month and year)
1.	Y. Rekha,S. Suriya, H.M. Hamedul Irshad	Comparative study on oven curing of Geo-polymer concrete over conventional concrete	Materials Today: Proceedings	April 2022.
2.	V. Kishor Kumar, N. K. Rajan, V. Vandhana Devi, Gitesh Kaushik	Relationship between Gaestel Index and rheology of blended bitumens	AIP Conference Proceedings	November 2022
3.	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	Dec 2022