

K.S.R. COLLEGE OF ENGINEERING (Autonomous)
TIRUCHENGODE - 637 215
Journal Publications - CY: 2024

S. No.	Name of the Author(s)	Title of the paper	Name of the Journal	Volume/ Issue No	DOIs	Page No.	Year of Publication
AUTOMOBILE ENGINEERING							
1	S. Soundararajan, R. Ramesh Kumar, Mathanbabu Mariappan & R. Ashok Raj	Effects of mechanical and fatigue properties of vinyl silane–treated and ageing-processed areca fibre and bronze nanoparticle – reinforced polyester composite	Biomass conversion and Biorefinery, Springer	151515/	https://doi.org/10.1007/s13399-024-05923-5	pages 1549–1559	2024
2	M. Syed Thasthagir, A. Sajitha Banu, A. Muthu kumaran, Melvin Victor De Pours, D. Yogaraj, A. Surenderpaul, L. Suresh Raj, Nafeez Ahmed Liyakat	Comparison of V groove design on mechanical performance and fracture behaviour in TIG welding of 5754-H111 aluminium alloy	Materials today, Elsevier Publisher,	online	https://doi.org/10.1016/j.matpr.2024.03.031		2024
3	J DineshKumar, Kathiravan Thangaraj, Gopal Kaliyaperumal, C. Gogulan, A.P. Kalidas, K. Yokesvaran, Nafeez Ahmed Liyakat, L. Suresh Raj	“Mechanical properties and fracture behaviour of varying filler rod composition in TIG welding of 5083 alloys”,	Materials today, Elsevier Publisher,	online	https://doi.org/10.1016/j.matpr.2024.03.001		2024
4	Syed Thasthagir M, Ramesh Kumar R, Mathanbabu Mariappan, P.Senthamaraikannan,	“Cryogenically treated goat and humanhair reinforced hybrid polymer composites”,	Polimery,	69/ 5	DOI:10.14314/polimery.2024.5.4	page no. 312-317.	2024
5	Palanisamy, Manuneethi Arasu; Sengodan, Neelamegan	Tribological properties of dry sliding wear behaviour for GFRP composite made by hand layup, VARTM and RTM techniques using taguchi and ANOVA approach Articles	Revista Matéria,	29/3	https://doi.org/10.1590/1517-7076-rmat-2024-0276		2024
6	M. Boopathi, R. Venkatachalam,	Optimizing compression ignition engine performance and emissions with onboard oxygen concentrator: an experimental study,	Clean Technologies and Environmental Policy	26/7	DOI:10.1007/s10098-023-02735-5	1-11	2024
BIOMEDICAL ENGINEERING							
7	Arivoli Sundaramurthy*, Karthikeyan Ramasamy, Durgadevi Velusamy and Chitra Vaithiyalingam	Enhancing smart grid stability: Data driven predictive modelling in distribution system	International Journal of Electrical and Electronics Research (IJEER)	Volume 12	https://doi.org/10.37391/IJEER.120239	623-631	2024
8	Ganesh Moorthy Jagadeesan, Arivoli Sundaramurthy, Senthil Kumar P , Sivapragasam J, Sathiya D, Perumal K	Design and Implementation of Energy-Efficient Lighting Systems in Warehouse Environments Using Dialux	VDI-Z Integrierte Produktion Journal	Volume 11 Issue 10	10.37897.VZIPJ.2024.V11I10.24.40816	35-59	2024
9	Yamunarani T, Bharathkumar R, Jeevitha V, Jagadeesh S	Advancements and Challenges in Automatic Milking Systems:A Comprehensive Review	Journal on Instrumentation & Control Engineering	Vol:12, Issue:2	https://doi.org/10.26634/jic.12.2.21447	26-32	2024

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CIVIL ENGINEERIG							
10	R. Saravanakumar K. S. Elango V. Revathi D. Balaji	Influence of Aggressive Environment inMacro andMicrostructural Properties of BottomAsh Geopolymer Concrete	Sustainability	Vol 16, No1732	https://doi.org/10.3390/su16051732	1732	2024
11	P. Prasanthni , B. Priya, T. Palanisamy, G. Dineshkumar	Enhancing PVCC beam performance through PVA fiber and basalt fabric in sustainable construction: ductility, strength, and energy absorption improvements	Revista Materia	Vol 29, No 1,	https://doi.org/10.1590/1517-7076-RMAT-2023-0299		2024
12	P. Sudhaa, S. Ramesh, R. Jagadeesan K. Yuvaraj	Study of mechanical properties of self-adhesive mortars with sugar cane bambasse ash and silica activator	Journal of Ceramic Processing Research.	Vol. 25, No. 1,	http://www.jcpr.or.kr/journal/archive/view/2903	pp. 1~15	2024
13	Dr.N.Gokarnesh M.Ezhil Arasi Dr.S.Senthil Kumar Dr.V.Senthil Kumar Dr.D.Anita Rachel, Dr.C.Kayalvizhi, Dr.C.PremalathaM.SakthivelS H.Ritti and B.Sainath	Role of textiles in structural Engineering	International Journal Of Engineering Research And Development	Vol 20, Issue 7	https://www.ijerd.com/paper/vol20-issue7/200795104.pdf	PP. 95-104	2024
14	A. Alex Rajesh P. Prasanthni S. Senthilkumar and B. Priya	Environment-friendly sustainable concrete produced from marble waste powder	Global NEST Journal,	Vol 26, No 5, 05204	https://doi.org/10.30955/gnj.005204	1-9	2024
15	Tamilchelvan P. Muralimohan N. Harikaran M. Kulanthaivel P.	Effective deep learning based prediction model for groundwater quality assessment using physio-chemical parameters	Global NEST Journal,	Vol 26, No 4, 05474	https://doi.org/10.30955/gnj.005474	1-11	2024
16	R. Saravanakumar K.S. Elango S. Gnana Venkatesh S. Saravanaganesh	Evaluation of Structural Stability of Four-Storeyed building using Non-Destructive Testing Techniques	International Research Journal Multidiscip. Technovation	Vol 6 No4	DOI: 10.54392/irjmt2441	Pp 1-7	2024
17	V. Karthik , Selvakumar Periyasamy , S. Dharneesh, G. K. Duvakeesh, Desta Getachew Gizaw, T.Vijayashankar	Biochar as a Sustainable Adsorbent for Heavy Metal Removal From Polluted Waters: A Comprehensive Outlook	Journal of Chemistry	Vol 2024, Article ID 8217730	https://doi.org/10.1155/joch/8217730	45683	2024
18	P. Hema V. Revathi	Durability Evaluation of GGBS-RHA-Based Geopolymer Concrete Along with Lightweight Expanded Clay Aggregate Using SEM Images and EDAX Analysis	Buildings	Vol14 Issue 11	https://www.mdpi.com/2075-5309/14/11/3355	3355 1-21	2024

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19	Santhosh Kumaar N. Muralimohan N. Sudharsan; D. Ambika	study on mechanical properties of fibre reinforced concrete (FRC) using coir & rice husk ash	Proceedings of International Conference on Advancements in Construction Materials	Vol 3146, 040004	https://doi.org/10.1063/5.0224711		2024
20	Revathi V. Jayanthi S Vijayashankar T Saravananaganes S	Experimental Studies on Fly Ash Gypsum Slurry in Aggressive Environment.	9th International Conference on Civil, Structural and Transportation Engineering, ICCSTE 2024	10.11159/iccste24.227	DOI: 10.11159/iccste24.227	227	2024
COMPUTER SCIENCE ENGINEERING							
21	P.Vasuki	Sign Language Recognition Using Deep Learning	International Journal of Scientific Research in Engineering and Management (IJSREM)	Volume: 08 Issue: 02	DOI: 10.55041/IJSREM28863		2024
22	P.Vasuki	Intelligent Integration :Harnessing Artificial Intelligence for Enhanced Performance and Efficiency in Electric Vehicles	Journal of Electrical System	Volume: 20	DOI: https://doi.org/10.52783/jes.2042	PP 376-385	2024
23	M.K.Nivodhini, B.Rajesh	Facial expression emotion recognition using Local Binary Patterns Histograms	International Journal of Advances in Engineering and Management (IJAEM)	Volume 6, Issue 02	DOI: 10.35629/5252-0602253258	pp: 253-258	2024
24	G.P.Priyadharshini,Dr C P Thamil Selvi,Kumaresan M	Disease Diagnosis from Medical Images	YMER	Volume No:23 ,Issue No 12	ISSN : 0044-0477	890-997	Dec 2024
25	Logeswaran K Savitha S Suresh S Anandamurugan S,	Utilizing Genetic Algorithm Integrated With Intelligent Operators And Sarsa For Extracting High Utility Itemsets	Journal of Theoretical and Applied Information Technology	Vol.102. No 9	ISSN: 1992-8645	3838-3846	May-2024
26	S. Senthil Kumar, Dr. K. Poongothai, M. K. Nivodhini, Dr. S. Nithyakalyani	Methodology for Elliptic Curve Cryptography-Based Digital Signature Scheme: A System with Enhanced Security	Intelligent systems and applications in Engineering	Vol 12, Issue 21	ISSN:2147-679921	4151-4154	2024
27	Shanmuga Valli V,Rajiv Kannan A	Optimizing dynamic keystroke pattern recognition with hybrid deep learning technique and multiple soft biometric factors	International Journal of Computers Communications & Control	Vol 19,No. 2	https://doi.org/10.15837/ijccc.2024.2.6097	1-17	April 2024
28	M. Pavithra, M. Prakash & V. Vennila	BGNBA-OCO based privacy preserving attribute based access control with data duplication for secure storage in cloud	Journal of Cloud Computing	Vol:13 ,8	10.1186/s13677-023-00544-1	Jan-18	January, 2024
29	Banupriya Rangaraju,Thilagavathi Chinnadurai,Sarmiladevi Natarajan,Vishnu Raja	Dual Attention Aware Octave Convolution Network for Early-Stage Alzheimer's Disease Detection	Information Technology and Control	Vol No.53, 1	10.5755/j01.itc.53.1.34536	302-316	Mar-24

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30	R.Banupriya, N.M Indhumathi, A.Devendhiran, C Navamani	Mapping of High Level Remote Sensing Image Features With Pixel Distribution and Threshold Computation	African Journal of Biological Sciences.	Vol No.6 ,7	10.48047/AFJBS.6.7.2024.703-711	703-711	Jul-24
COMPUTER SCIENCE AND ENGINEERING (IOT)							
31	N Saravanan	An innovative energy efficient routing protocol in MANET with hybridized osprey-fire hawk optimization algorithm to attain optimal routing constraints	Wireless networks (Springer)	Volume 31/ Issue No:	https://doi.org/10.1007/s11276-024-03867-2	2005-2026	Nov 2024
32	N Saravanan	Novel Intrusion Detection Approach in Unbalanced Network Traffic Using Modified Random Forest Algorithm	Information Systems Engineering and Management (Springer)	Vol. 16	https://doi.org/10.1007/978-3-031-69201-7_7	78-87	May 2024
COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)							
33	O Pandithurai, PM Selvam, Arun Krish	Next-Gen Remote Sensing: RCNN and Ant Colony Optimization for Accurate Land Cover Mapping	ICTACT Journal on Soft Computing	Volume:15Issue: 1	10.21917/ijsc.2024.0483	3452- 3464	2024
ELECTRONICS AND COMMUNICATION ENGINEERING							
34	Dr.S.Karthikeyan K.Pavithra	Secure Confidential Communication Using Rectatron Technology	Journal of Emerging Technology and Innovative Research	Volume 11, Issue 1		515	2024
35	Dr.R.Satheeskumar B. Prakash S. Velliangiri Francis H Shajin	Evolutionary gravitational neocognitron neural network based block chain technology for a secured dynamic optimal routing in wireless sensor networks.	Journal of Experimental & Theoretical Artificial Intelligence.	Volume 36, Issue 3	doi.org/10.1080/0952813X.2022.2153274	435–451	2024
36	Dr.Poornima Ramasamy, Eatedal Alabdulkreem, Nuha Alruwais, & V. P. Gladis Pushparathi	An attention-based neural network for lung cancer classification and gradient in MRI	Journal of Automatika	Volume 65, Issue 4	doi.org/10.1080/00051144.2024.2376776	1379-1390	2024
37	Dr.R.Satheeskumar , M. Sudha, A. B. Madhan, and E. Geetha,	Synthesis of zinc oxide thin films by spray pyrolysis technique	Journal of Ovonic Research	Volume 20, Issue 2	doi.org/10.15251/JOR.2024.202.267	267 – 272	2024
38	Mrs.S. Sridevi , A.RajivKannan	Development of 3DTDUnet++ with novel function and multi-scale dilated-based deep learning model for lung cancer diagnosis using CT images	Biomedical Signal Processing and Control	Volume 94, No:106243	doi.org/10.1016/j.bspc.2024.106243		2024
39	C. Gowri Shankar P. Ravi Kumar	Optimizing power converters for enhanced electric vehicle propulsion: A novel research methodology	The Scientific Temper	Volume 15, Issue 4	https://doi.org/10.58414/SCIENTIFICTEMPER.2024.15.4.23	1-8	Dec-24
40	Sakthivel Karthikeyan,Sankarakutti Palanichamy Manikandan, Sandeep Reddy Narani, Nagarajan Mohankumar	Deep learning for skin melanoma classification using dermoscopic images in different color spaces	International Journal of Electrical & Computer Engineering	Volume 15, Issue 1	http://doi.org/10.11591/ijece.v15i1.pp319-327	319-327	Feb-25

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41	R Eswaramoorthi, M Prasad, Senthil Rama R, V Uma Maheswari	Optimized wireless communication for 6G signal processing using memory-augmented deep unfolding network	International Journal of Communication Systems	Volume 37, Issue 11	doi.org/10.1002/dac.5796	5796	2024
42	R Eswaramoorthi R Shankar G Karthick S Kavitha	Frequency Offset Estimation for UWB-OFDM System using Weight and Exhaustiveness based Monarch Butterfly Optimization Approach	J. Electrical Systems	Volume 20, Issue 6		2671-2684	2024
ELECTRICAL AND ELECTRONICS ENGINEERING							
43	Lalitha, B., Lakshmi, K., Karthick, A., & Manoj Kumar, P	Performance analysis of photovoltaic module using eutectic phase change material	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Vol.46, No.1	https://doi.org/10.1080/15567036.2024.2417773	pp. 14423–14435	October 2024
44	Kanagaraj Nallaiya Gounder, Ramasamy Murugesan, Vijayakumar Madhaiyan, Obaid Aldosari	A high gain quasi Z-source based full-bridge isolated DC-DC converter with extendable structure for grid-tied/standalone PV system	IET Power Electronics	Vol.17	https://doi.org/10.1049/pe2.12779	pp. 2134–2149	Sep-24
45	Shanmugapriya, M., Mayurappriyan, P.S. & Lakshmi, K.	Fabrication and characterization of PVA-based biocomposite EMI shielding material for low power loss wireless charging applications	Biomass Conversion and Biorefinery	Vol.15	https://doi.org/10.1007/s13399-024-06081-4	pp. 13871–13880	Sep-24
46	J, Ganesh Moorthy, Jerome Moses M, and Kalaiselvan N	Active power regulation in low voltage grid-tied inverters for rooftop solar PV systems: Progress and future directions	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	Vol.46, No.1	https://doi.org/10.1080/15567036.2024.2392891	pp. 81–104	Sep-24
47	Senthil Kumar S, Nada Alzaben, Sridevi A, Ranjith V	Improving Quality of Service (QoS) in Wireless Multimedia Sensor Networks using Epsilon Greedy Strategy	Measurement Science Review	Vol.24, No.3	https://doi.org/10.2478/msr-2024-0016	pp. 113–117	August 2024
48	S. Senthil Kumar, A. R. Venmathi, Yuvaraja Thangavel, L. Raja	ResDense Fusion: enhancing schizophrenia disorder detection in EEG data through ensemble fusion of deep learning models	Neural Computing and Applications	Vol.37	https://doi.org/10.1007/s00521-024-10701-5	pp. 2411–2433	Dec-24
49	uel Raj Daison Stallon, Ramanpillai Anand, Ramasamy Kannan, Seenakesavan Rajasekaran	Optimal detection and classification of grid connected system using MSVM-FSO technique	Environmental Science and Pollution Research	Vol.31	https://doi.org/10.1007/s11356-024-32921-x	pp.31064–31080	April 2024
50	R. Anand, S. Daison Stallon, S. Rajasekaran, R. Kannan	Using hybrid firebug swarm optimization and jellyfish search to enhance DC-DC converter efficiency in solar PV systems	Environment, Development and Sustainability	-	https://doi.org/10.1007/s10668-024-05797-7	-	Dec-24
51	Sharath Kumar D R V A, Rajakumareswaran V., Katuri Rayudu, Vasanthi A., Tharani B., Senthil Kumar R.	Enhancing Ransomware Detection in Cybersecurity: A Comprehensive Ensemble Approach	Journal of Electrical Systems	Vol.20 No.10s	https://doi.org/10.52783/jes.6235	pp.5315-5324	Sep-24
52	Ganesh Moorthy Jagadeesan, Arivoli Sundaramurthy, Senthil Kumar P, Sivapragasam J, Sathiya D, Perumal K	Design and Implementation of Energy-Efficient Lighting Systems in Warehouse Environments Using Dialux	VDI Z Integrierte Produktion	Vol.11, No.10	10.37897.VZIPJ.2024.V11I10.24.40816	pp.35-59	Sep-24

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53	Ashish A. Mulajkar, Varsha D. Jadhav, Dhananjay R. Dolas, S. Gowtham, Madhuri S. Bhagat, Harshal Patil, P. Satishkumar	Unmanned aerial vehicle resilience: A new approach to fault diagnostics framework	Journal of Autonomous Intelligence	Vol.7, Issue 5	doi:10.32629/jai.v7i5.1637	pp.1-17	July 2024
54	Ragul S, Raghavendran PS, Ramesh S	Optimization of Bidirectional Converters and BLDC Motor Control in Microgrids Using Priority Adaptive Particle Optimization Driven Boosting Model	Journal of Electrical Systems	Vol.20, No.11s	-	pp.2201-2219	Dec-24
55	V.V. Rajaseggaran, Bharatha Babu K, R. Jeyabharath, Vasan Prabhu V	Energy management in smart grids for optimal IoT integration with enhanced energy and exergy efficiencies using Garra rufa fish optimisation approach	International Journal of Exergy	Vol.45, No.3-4	https://doi.org/10.1504/IJEX.2024.142624	pp.175-191	Nov-24
56	Prabhu Sundaramoorthy, Arun Vijayakumar, Kupppapillai Rajkumar, Jamuna Ponnusamy, Gokul Chandrasekaran, Vijayakumar Madhaiyan	Impacts of Laminating Core Materials on Permanent Magnet Synchronous Motor by Newton–Raphson Method	IEEE Canadian Journal of Electrical and Computer Engineering	Vol.47, No.2	10.1109/ICJECE.2024.3370973	pp.105-110	June 2024
57	Arun Kumar R, Sankar Ganesh R	Interval Type 2 Fuzzy PI Enhanced State Space Model for Battery Management in Battery Electric Utility Vehicles Operating in Indoor Logistics Environment	Bulletin of The Polish Academy of Sciences Technical Sciences	Vol.72, No.4	10.24425/bpasts.2024.150330	pp.1-11	June 2024
58	Sakthivel A, Ramesh S, Das RM, Josh FT, Kumar UA, Mohan BS	Enhancing electric vehicle performance through buck-boost converters with renewable energy integration using hybrid approach	Optimal Control Applications and Methods	Vol.45, No.5	10.1002/oca.3153	pp.2231-2252	June 2024
59	N. Kanagaraj, Ramasamy M., Vijayakumar M., Obaid Aldosari	Design of an Extendable High Boost Multi-Port Z-Network Converter for Small Power Grid-Connected PV Applications	IEEE Open Journal of Power Electronics	Vol.5	10.1109/OJPEL.2024.3386023	pp.534-553	April 2024
60	R. Arun Kumar, R. Sankar Ganesh	Reinforcing smart grid integrity: an enhanced cybersecurity framework for plug-in hybrid electric vehicles	Electrical Engineering	Vol.106	https://doi.org/10.1007/s00202-024-02485-7	pp.7951–7965	May 2024
61	Vani E., Ilambirai R. C., Ganga M. & Jasmine Gnanamalar	Jellyfish Search Optimized Gated Recurrent Unit Based FOPID/PID for Enhanced Automatic Voltage Regulator	Electric Power Components and Systems	-	https://doi.org/10.1080/15325008.2024.2322004	pp.1-22	April 2024
62	T. Bharani Prakash, R. Sankar Ganesh	Harmonic Elimination Using Grid Integrated Hybrid Renewable Energy System with Optimized Control for Nano Scale Based 31-Level MLI	Electric Power Components and Systems	-	https://doi.org/10.1080/15325008.2024.2331003	pp.1-21	April 2024
63	N. Kanagaraj, Vijayakumar M, Ramasamy M., Obaid Aldosari	Photovoltaic-Based q-ZSI STATCOM with MDNESOGI Control Scheme for Mitigation of Harmonics	Energies	Vol.17, No.2	https://doi.org/10.3390/en17020534	pp.534	January 2024
64	E. Vani, P. Balakrishnan, Gopinath Singaram, S. Senthil Kumar	PV Wind Battery Based DC Microgrid with Neural Network MPPT	Journal of Electrical Systems	Vol.20, No.5s	https://doi.org/10.52783/jes.2055	pp.430-437	May 2024

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65	Dr.M. Vijayakumar, K. Rajeshwari, R. Raju, R. Kumar	Enhanced Speed Control of BLDC Motor Using Dwarf Mongoose Optimizer	International Journal of Innovative Research in Technology	Vol.10, No.12	10.32604/iasc.2023.030961	pp.1484-1488	May 2024
66	S. Senthil Kumar, Yuvaraja Thangavel, L. Raja, E. Kannan	Machine Learning Algorithms for Performance Enhancement in DCO-OFDM-Based LiFi Systems	Journal of Electrical Systems	Vol.20, No.5s	https://doi.org/10.52783/jes.2052	pp.423-429	May 2024
67	B. Yuvarani, G. Vaideki, B. Thamaraiselvan, C. Kavitha	Optimal design method of power factor correction for improving efficiency using interleaved boost converter	International Journal of Innovative Research in Technology	Vol.10, No.12	-	pp.697-701	May 2024
68	S. Gowtham, B. Thamaraiselvan, R. Raju	A Comprehensive Guide for Detecting and Resolving Faults that Occur in Solar Panel	International Journal of Innovative Research in Science, Engineering and Technology	Vol.13, No.5	DOI:10.15680/IJRSET.2024.1305420	pp.9159-9165	May 2024
69	S. Senthil Kumar, K. Poongothai, M. K. Nivodhini, S. Nithyakalyani	A Methodology for Elliptic Curve Cryptography-Based Digital Signature Scheme: A System with Enhanced Security	International Journal of Intelligent Systems and Applications in Engineering	Vol.12, No.21s	https://www.ijisae.org/index.php/IJISAE/article/view/6241	pp.4151–4154	March 2024
MECHANICAL ENGINEERING							
70	Dr.P.Senthamarai kannan	Comprehensive glass/banana fiber characterization with zirconium carbide filler-reinforced hybrid composites for lightweight structural applications	Engineering Research Express	6 / 045524	https://doi.org/10.1088/2631-8695/ad8725	1 - 17	2024
71	Dr.P.Senthamarai kannan	Exploration of Cymbopogon nardus root fibers characteristics for sustainable lightweight composite reinforcement applications	Springer Netherlands	--	https://doi.org/10.1007/s10570-024-06160-9	--	2024
72	Dr.P.Senthamarai kannan	Enhancing mechanical performance and water resistance of Careya-Banana fiber epoxy hybrid composites through PLA coating and alkali treatment	Journal of Materials Research and Technology	32	https://doi.org/10.1016/j.jmrt.2024.08.190	4304–4315	2024
73	Dr.P.Senthamarai kannan	Comprehensive characterisation of raw and alkalized sugarcane bagasse fibres	Biomass Conversion and Biorefinery	--	https://doi.org/10.1007/s13399-024-06063-6	--	2024
74	Dr.P.Senthamarai kannan	Suitability evaluation of raw and alkali-treated cannonball fibers as reinforcement in polymer composites	Waste and Biomass Valorization	15	https://doi.org/10.1007/s12649-024-02514-3	15:5125–5136	2024
75	Dr.P.Senthamarai kannan	Modification of rice hull powder by in situ generation of silver nanoparticles for antibacterial composite filler applications	Macromolecular Research	32	https://doi.org/10.1007/s13233-024-00257-7	32:653–661	2024
76	Dr.P.Senthamarai kannan	Extraction and characterization of microcrystalline cellulose from Vachellia nilotica plant leaves: A biomass waste to wealth approach	Physiologia plantarum	-	https://doi.org/10.1111/pl.14368	1 - 12	2024

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77	Dr.P.Senthamarai kannan	Extraction and characterization of a potential plasticizer from Vachellia nilotica	Industrial Crops and Products	222	https://doi.org/10.1016/j.indcrop.2024.119659	1 - 11	2024
78	Dr.P.Senthamarai kannan	Isolation and characterization of novel natural fiber from Streblus asper	Biomass Conversion and Biorefinery	--	https://doi.org/10.1007/s13399-024-06136-6	1 - 15	2024
79	Dr.P.Senthamarai kannan	Physiochemical profiling of bioplasticizer derived from Ficus benghalensis leaves for eco-friendly applications	Industrial Crops and Products	222	https://doi.org/10.1016/j.indcrop.2024.119535	1 - 11	2024
80	Dr.P.Senthamarai kannan	Greening the composite industry: Evaluating Lantana camara Verbenaceae fiber as a promising substitute for lightweight polymer matrix composites	Industrial Crops and Products	220	https://doi.org/10.1016/j.indcrop.2024.119265	1 - 12	2024
81	Dr.P.Senthamarai kannan	Synergistic effect on the mechanical, thermal, and tribology characteristics of modified natural fibre composites with perforated waste PET	Biomass Conversion and Biorefinery	--	https://doi.org/10.1007/s13399-024-06214-9	1 - 13	2024
82	Dr.P.Senthamarai kannan	Characterization of alkali treated and untreated Abutilon indicum FIBERS	Industrial Crops and Products	222/119719	https://doi.org/10.1016/j.indcrop.2024.119719	1 - 18	2024
83	Dr.A.V.Balan	Eyewash & shower for pre treatment of chemical spillage at ETP and STP	AIP Conference Proceedings	40009	https://doi.org/10.1063/5.0212086	040009 – 1 - 5	2024
84	Dr.A.V.Balan	Validation of Toyota stops 6 plus 2 safety practice enablers in manufacturing industry through ISM approach	AIP Conference Proceedings	40018	https://doi.org/10.1063/5.0212002	040018-1 - 10	2024
85	Dr.A.V.Balan	Enhanced photovoltaic performance of dye sensitized solar cell based on nanocomposites of zinc oxide photoanode	Journal of ovonic Research	VOI:20/ Issue No: 1	https://doi.org/10.15251/JOR.2024.201.85	85 - 92	2024
86	Dr.A.V.Balan Dr.P.Senthamarai kannan	Synthesis, Characterization, and Analysis of Bioplasticizers Derived from Thespesia populnea Leaf: Towards Sustainable Biomaterials	Journal of Inorganic and Organometallic Polymers and Materials	--	https://doi.org/10.1007/s10904-025-03609-7	1 - 18	2024
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