

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

(Autonomous)

Tiruchengode - 637 215. Namakkal Dt. Tamil Nadu

No. of Articles: 68

List of Scopus Indexed Journal Publications

Calendar year: 2025

S.No	Authors	Title	Source title	Vol.	Issue	S. Page	E. Page	Year
1	Vydehi P.; Ravindran G.; Shyamala G.; Ramesh S.	Aerobic granular sludge-based wastewater treatment: Current trends, formation, applications, granulation, efficiency, and bottlenecks	Journal of Water Process Engineering	70				2025
2	Senthamaraiannan P.; Suyambulingam I.; Saravanakumar S.S.; Ismail S.O.; Siengchin S.	Extraction and characterization of Cayratia pedata (lam.) gagnep fiber	Cellulose	32	2	743	762	2025
3	Sundaram M.; Palanisamy S.; Justin L.; Rajendran P.	Biosynthesized Silver Nanoparticle-Infused Microcrystalline Cellulose Film for Antibacterial Food Packaging	ChemistrySelect	10	16			2025
4	Dhandapani E.; Kandiah K.; Arumugam G.; Rajendran R.; Duraisamy N.	Hierarchically porous activated carbon electrodes synthesized from expired tablets for high-performance supercapacitor and photocatalysis application	Journal of Materials Science: Materials in Electronics	36	10			2025
5	Loganathan K.; Choudhary P.; Eswaramoorthi S.; Senthilvadivu K.; Jain R.	Irreversibility analysis of bioconvective Walters' B nanofluid flow over an electromagnetic actuator with Cattaneo-Christov model	Discover Applied Sciences	7	5			2025
6	Srinivasan S.; Krishnaveni Selva Ganeshan J.; Arumugam K.; Venkatachalam R.	Biogenic fabrication of α-h Phase 2D-MoO₃ nanomaterials: Comprehensive analysis of physicochemical and impedance properties for biological and photocatalytic applications	Journal of Molecular Structure	1324				2025
7	Sathishkumar K.; Harishsenthil P.; Naidu S.M.; Srividhya B.; Gunganathan L.; Batoo K.M.; Ijaz M.F.; Ramamoorthy M.; Ragupathy S.	Impact of metal doping and non metal loading on the photocatalytic degradation of organic pollutants using tin dioxide catalyst under sunlight irradiation	Journal of Molecular Structure	1321				2025
8	Krishnamoorthy R.; Chinnappan R.; Balasundaram J.K.	Quadratic discriminant feature selected broken stick regressive deep convolution neural learning classification for turmeric crop yield prediction	Network: Computation in Neural Systems					2025
9	Soto-Bubert A.; Bhardwaj R.; Rajendran S.; Acevedo R.	Viscosity modelling of chlorinated brines in three-component systems with a continuously variable temperature range between 293-323 K	Chemical Thermodynamics and Thermal Analysis	18				2025
10	Baskar R.; Mohanraj E.; Saradha M.; Monika R.	Hybrid Prairie Dog and Dwarf Mongoose optimization algorithm-based application placement and resource scheduling technique for fog computing environment	Scientific Reports	15	1			2025

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11	Loganathan K.; Choudhary P.; Eswaramoorthi S.; Senthilvadivu K.; Thamaraikannan N.; Jain R.	Implications of entropy generation in bioconvective flow on Maxwell nanofluid past a Riga plate with Cattaneo--Christov model	Partial Differential Equations in Applied Mathematics	13				2025
12	Senthilvadivu K.; Eswaramoorthi S.; Loganathan K.; Ali R.	Homogeneous-Heterogeneous reactions on Darcy-Forchheimer flow of SWCNTs/MWCNTs over a bidirectional Riga plate with nonlinear radiation and non-uniform heat source/sink	Modern Physics Letters B	39	16			2025
13	Nallusamy C.; Uma S.; Selvakumar T.; Kumaravel T.	Star Topology--Aware CH Selection and Geographic Routing Using Group Search Chronological Optimizer in MANET	International Journal of Communication Systems	38	7			2025
14	Sundravel K.V.; Jagadeesan R.; Dhanush A.; Kumar A.S.	A Review of Innovations, Challenges, and Future Directions in Structural Health Monitoring Using Smart Materials	Journal of Environmental Nanotechnology	14	1	464	478	2025
15	P V.; K S.; R S.; S G.	Dynamic network slicing based resource management and service aware Virtual Network Function (VNF) migration in 5G networks	Computer Networks	259				2025
16	Loganathan K.; Divya S.; Eswaramoorthi S.; Dharani K.; Senthilvadivu K.; Jain R.	Computational analysis of Darcy--Forchheimer fluid flow in rotating frame with nonlinear radiation and activation energy	International Journal of Thermofluids	26				2025
17	Venkatesan A.; Srividhya B.; Alajmi A.; Sadeq A.M.; Chava R.K.; Habila M.A.; Senthil Kumar D.; Gunganathan L.; Ragupathy S.	High adsorption capacities of rhodamine B dye by activated carbon synthesized from cotton stalks agricultural waste by chemical activation	Ceramics International	51	10	13345	13354	2025
18	Gowsikraja P.; Geetha K.; Rajan C.	SBERO: Skill AI-Biruni Earth Radius Optimization for Alzheimer's Disease Classification Using Magnetic Resonance Image	NMR in Biomedicine	38	3			2025
19	Eswaramoorthi S.; Loganathan K.; Choudhary P.; Senthilvadivu K.; Ahlawat A.; Sivakumar M.	Computational analysis of sutterby nanofluid with heat and mass convective conditions: a comparative study of Riga plate and stationary plate	Discover Applied Sciences	7	3			2025
20	Kalidas A.P.; Kathirselvam M.	Experimental investigation of polymer composites reinforced with nanocellulose fibers isolated from Eichhornia crassipes stems and Citrus grandis fruit peel biochar	Polymer Bulletin					2025

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21	Pownraj C.; Karthik A.; Prabhu B.; Suresh S.; Yatish K.V.; Katiyar J.K.; Valan Arasu A.	Effect of Cu MOF based functional catalysts on cracking and adsorption of bio-oil compounds via thermo-catalytic pyrolysis: A net zero emission scenario	Fuel	383				2025
22	Madhavi S.; Praveen R.; Jagatheswari S.; Nivitha K.	Hybrid ELECTRE and bipolar fuzzy PROMOTHEE-based packet dropping malicious node mitigation technique for improving QoS in WSNs	International Journal of Communication Systems	38	2			2025
23	Rathinavel S.; Saravanakumar S.S.; Prithviraj M.; Dhanamurugan A.; Karthikeyan J.; Banu T.; Selvapreethi G.	Examining the Potential for Employing Biowaste Prosopis juliflora Bark as an Additive in Particulate-Reinforced Polymer Based Composite Materials	Waste and Biomass Valorization	16	3	1073	1083	2025
24	Dineshkumar P.; Geetha K.; Rajan C.	Proactive Resilient Adaptive Sensor Node Management with Neuro-Symbolic Systems for Optimized Coverage Efficiency in the Mission-Critical Applications	ECS Journal of Solid State Science and Technology	14	1			2025
25	Madhaiyan R.; Vijayaraghavan D.; Shankar S.; Seeman U.; Ibrahim N.M.M.; Chinnusamy S.	Fabrication of spinel NiCo2O4 nanoflowers by simple hydrothermal method for effective electrochemical detection of NO2- in processed food sample	Food Chemistry	480				2025
26	Subramani K.; Ganeshan J.K.S.; Srinivasan S.; Mohanasundaram N.V.T.; Incharoensakdi A.	Hydrothermally and green synthesized TiO2 nanoparticles with high photocatalytic textile industry dye degradation, antibacterial and antioxidant activities	Journal of Alloys and Compounds	1017				2025
27	Mohanasundaram V.; Rangaswamy B.	Photovoltaic solar energy prediction using the seasonal-trend decomposition layer and ASOA optimized LSTM neural network model	Scientific Reports	15	1			2025
28	Vidya S.; Gopalakrishnan R.	Dynamic task offloading in edge computing for computer access point selection based on adaptive deep reinforcement learning with meta-heuristic optimization	Applied Soft Computing	176				2025
29	Mythili J.; Gopalakrishnan R.	Improving data transmission through optimizing blockchain sharding in cloud IoT based healthcare applications	Egyptian Informatics Journal	30				2025

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30	Mohan G.; Meenachi S.; Kiruthika K.; Kirthiga D.	Unveiling Optimal Conditions for Phenol Degradation: Response Surface Methodology and ANOVA Analysis of ZnO and Ag-Doped ZnO Photocatalysts	Nature Environment and Pollution Technology	24		293	303	2025
31	Duraisamy N.; Krishna S.K.; Dhandapani E.; Kandiah K.	A Review on Biomass-Derived Activated Carbon for Next-Generation Supercapacitors: Cutting-Edge Advances and Future Prospects	Energy and Fuels	39	5	2306	2347	2025
32	Kandasamy Y.; Kumarasamy V.; Thirumoorthy P.; Murugan S.; Subramani R.	Mechanical, Mineralogical and Durability Properties of Pulverized Pond Ash Based Concrete	Medziagotyra	31	1	108	114	2025
33	kalpana J.; Anithadevi R.; Satheeskumar S.; Sangeetha P.	A novel phytosynthesized Zr doped SnO2 nanocomposite for textile effluent purification and in-vitro biological activities	Journal of the Indian Chemical Society	102	6			2025
34	Begum A.H.; Savitha S.; Vidaarth T.M.N.; Jagan K.S.G.; Surendhiran S.; Karthik A.; Kalpana B.	Design and optimization of Ag decorated MgO nanosphere catalyst for efficient removal of textile industry pollutants and their biological applications	Journal of the Indian Chemical Society	102	2			2025
35	Govindasamy A.; Ponnusamy P.; Prabhu P.; Ramesh S.M.	Deep Lichen-Net: Deep learning based automatic classification and segmentation of Lichens in Western Ghats, India; [Deep Lichen-Net: Clasificación y segmentación automática de líquenes en los Ghats occidentales de India basada en aprendizaje profundo]	Boletin Latinoamericano y del Caribe de Plantas Medicinales y Aromaticas	24	3	328	344	2025
36	Gokulavani P.; Sureshkumar S.; Muthukumar S.; Muthamilselvan M.; Al-Mdallal Q.M.	Optimizing thermal performance in a non-Darcy porous ventilated cavity with heated diagonal ba@les of varied heights	International Journal of Modern Physics C	36	9			2025
37	Senthilraja S.; Çolak A.B.; Gangadevi R.; Baskaran M.; Awad M.M.	Experimental investigation and artificial neural network modeling of performance of photovoltaic – Thermal solar collector based hydrogen production system with phase change material	International Journal of Hydrogen Energy	109		540	550	2025
38	Ramya R.; Kumar P.; Dhanasekaran D.; Kumar R.S.; Sharavan S.A.	A review of quantum communication and information networks with advanced cryptographic applications using machine learning, deep learning techniques	Franklin Open	10				2025

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39	Nathiya N.; Rajan C.; Geetha K.	A hybrid optimization and machine learning based energy-efficient clustering algorithm with self-diagnosis data fault detection and prediction for WSN-IoT application	Peer-to-Peer Networking and Applications	18	2			2025
40	Mohanasundaram V.; Rangaswamy B.	Elastic net with Bayesian Density Estimation model for feature selection for photovoltaic energy prediction	Scientific Reports	15	1			2025
41	Sharma M.; Shah R.; Saraf A.; Kumar R.; Maheshwari R.; Balakrishnan K.; Nair A.; Kumar R.; Gupta P.K.	Current advances in the therapeutic potential of nanomedicines for pulmonary disorders	Emergent Materials	8	2	935	958	2025
42	Ramesh H.; Senthil Raja S.; Gangadevi R.; Baskaran M.; Marimuthu R.	Effect of volume concentration and sonication time on the performance of a hybrid solar collector based hydrogen production system with hybrid nanofluid: An experimental investigation	Case Studies in Thermal Engineering	66				2025
43	Ganthia B.P.; Panda S.; Remamany K.P.; Chaturvedi A.; Begum A.Y.; Mohan G.; Prasad S.J.S.; Ishwarya S.	Experimental techniques for enhancing PV panel efficiency through temperature reduction using water cooling and colour filters	Electrical Engineering					2025
44	Anbazhagan T.; Rangaswamy B.	Early prediction of CKD from time series data using adaptive PSO optimized echo state networks	Scientific Reports	15	1			2025
45	Baskar R.; Mohanraj E.	Hybrid multi objective marine predators algorithm based clustering for lightweight resource scheduling and application placement in fog	Scientific Reports	15	1			2025
46	Mullainathan S.; Natarajan R.	An SPSS and CNN modelling based quality assessment using ceramic materials and membrane filtration techniques	ACTA Paulista de Enfermagem	30				2025
47	Selvaraj S.K.; Saravanan K.	Characterization and potential applications of Grewia hirsuta fibers: nature's own composite materials	Biomass Conversion and Biorefinery	15	4	5769	5777	2025
48	Pugazharasi K.; Sakthivel K.	Enhanced glioma tumor detection and segmentation using modified deep learning with edge fusion and frequency features	Scientific Reports	15	1			2025
49	Varadharajan V.; Balu A.K.; Sinclair B.J.; Perinbarajan G.K.; Jenifer A D.; Ganesan Sudha H.; Ramaswamy A.; Venkidasamy B.; Thiruvengadam M.	Comprehensive analysis of Syzygium cumini L. pomace extract as an α-amylase inhibitor: In vitro inhibition, kinetics, and computational studies	Bioorganic Chemistry	161				2025

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50	Jagan K.S.G.; Surendhiran S.; Savitha S.; Naren Vidaarth T.M.; Karthik A.; Lenin N.; Senthilmurugan R.	Hybrid NiO nano rods-quantum carbon dots composites as a novel corrosion protective coating on EN3 mild steel in the marine environment	Inorganic Chemistry Communications	175				2025
51	Sukantha T.A.; Renuka P.; Sivakumar V.; Meenachi S.; Kandasamy S.	Dye disappearing act: unveiling the mystique of Acid Violet 4BS adsorption with Xanthium strumarium-derived activated carbon	Biomass Conversion and Biorefinery	15	7	10165	10181	2025
52	Surendhiran S.; Savitha S.; Karthik A.; Sruthi N.; Balu K.S.; Jagan K.S.G.; Naren Vidaarth T.M.	Bio electrochemical and in-vitro bioactivity evaluation of Araucaria columnaris interceded α-MoO₃ nano rods fused chitosan-sodium alginate scaffold for tissue engineering applications	Journal of Molecular Structure	1328				2025
53	Mullainathan S.; Natarajan R.	An SPSS and CNN modelling based quality assessment using ceramic materials and membrane filtration techniques	Revista Materia	30				2025
54	Sasikumar M.; Seenivasan S.; Durairaj S.; Sathiya S.	Novel synthesis of ZnO supported on 1D-MWCNT nanocomposites enhancing electrochemical energy storage performance of asymmetric supercapacitor	Ionics					2025
55	Satheeshkumar D.; Saravanan K.; Karthikeyan G.; Prakash C.	Thermal comfort properties of banana/bamboo blended fabrics	Indian Journal of Fibre and Textile Research	50	1	48	52	2025
56	Karpagam M.; Sarumathi S.; Maheshwari A.; Vijayalakshmi K.; Jagadeesh K.; Berezhnychenko V.; Narayanamoorthi R.	An effective PO-RSNN and FZCIS based diabetes prediction and stroke analysis in the metaverse environment	Scientific Reports	15	1			2025
57	Shilpa; Mehta R.; Senthilvadivu K.	Artificial neural network analysis on heat and mass transfer in MHD Carreau ternary hybrid nanofluid flow across a vertical cylinder: A numerical computation	International Journal of Thermofluids	27				2025
58	Gokulavani P.; Muthukumar S.; Sureshkumar S.; Muthamilselvan M.; Al-Mdallal Q.M.	Computational analysis of MHD flow in a porous open chamber filled with hybrid nanofluid and vertical heat sources	Journal of Thermal Analysis and Calorimetry					2025
59	Rajavel P.; Arthanarisamy M.; Ramasamy S.	Hybrid optimization of engine performance and emission using RSM-ANN-GA framework to explore valorization potential of waste cooking oil with green synthesized heterogenous ZnO nanocatalyst	Fuel	395				2025

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60	Ramasamy M.; Elangovan M.	Development of optimized cascaded LSTM with Seq2seqNet and transformer net for aspect-based sentiment analysis framework	Web Intelligence					2025
61	Palanisamy S.; Palanisami K.; Madeshwaren V.	Nano iron particles influence on mechanical properties and morphological analysis of polymer composites	Revista Materia	30				2025
62	Kumar R.; Thanikai Vimal J.; Hayavadana J.; Srinivasulu K.; Prabhu S.V.; Kadaikunnan S.; Khaled J.M.	Effect of Weave Parameters on Yarn Pull-Out Force of Woven Fabrics Made From Doubled Yarns and With Different Weave Structures	AATCC Journal of Research	12	1			2025
63	Selvaraj R.C.A.; Kanagaraj A.; Karuppiyah P.; Ravindran S.; Raj M.M.; Senthamaraikannan P.; Suyambulingam I.	Leveraging citrus extract to enhance antioxidant properties of mung bean (Vigna radiata) protein edible films	Biomass Conversion and Biorefinery					2025
64	Siddaiyan J.; Poonusamy K.	Identify the Driving Space for Vehicle Movement by Lane Line and Road Object Detection Using Deep Learning Technique	Journal of New Materials for Electrochemical Systems	28	1	68	75	2025
65	Muthukumarasamy K.; Kanagarajan B.; Jayachandrabal B.M.; Arul Selvaraj R.C.; Arunprasath K.; Senthamaraikannan P.	Development of packaging films from banana pseudostem sap and PVDF: mechanical and thermal properties	Biomass Conversion and Biorefinery					2025
66	Balamurugan R.; Nithya R.	Advancements In Solar Panel Maintenance: A Review Of Iot-Integrated Automatic Dust Cleaning Systems: [Rozwój W Konserwacji Paneli Słonecznych: Przegląd Systemów Automatycznego Czyszczenia Z Kurzu Opartych Na Internecie Rzeczy]	Informatyka, Automatyka, Pomiary w Gospodarce i Ochronie Srodowiska	15	1	39	44	2025
67	Muniyan B.; Selvaraj A.; Ramalingam S.K.; Muthubalasubramanian M.	Efficient Thermal Management in Processor Cooling Using Lauric Acid and Copper Foam-based PCM Composite	Journal of Environmental Nanotechnology	14	1	91	96	2025
68	Premalatha C.; Ratna U.; Anton S.M.; Kumar M.D.; Gokarneshan N.; Jothmanikandan A.; Periyasamy P.; Ponmaniselvam M.; Sridhar K.; Saravanan N.; Asma M.; Kayalvizhi C.; Shahanaz Z.; Sakthivel M.; Devika R.; Karthikeyan S.; Sakthivel K.	A sustainable method of dyeing hemp using neem extract	Man-Made Textiles in India	53	1	14	17	2025