

# K.S.RANGASAMY COLLEGE OF TECHNOLOGY

(Autonomous)

Tiruchengode - 637 215. Namakkal Dt. Tamil Nadu

**No. of Articles: 42**

**List of Scopus Indexed Journal Publications**

**Calendar year: 2026**

S.No	Authors	Title	Source title	Vol.	Issue	S. Page	E. Page	Year
1	Savitha S.; Naren Vidaarth T.M.; Karthik A.; Kathirselvam M.	<a href="#">Evaluation of Structural, Morphological Stability and Photocatalytic Recyclability of Phytochemical Assisted MgO, NiO, and Co3O4 Nanoparticles</a>	ChemistrySelect	11	9			2026
2	Karuppusamy K.; Thangavelu B.; Subramaniam K.M.; Thangavelu S.	<a href="#">Deep Learning-Based Lesion-Aware Hybrid Attention Framework for Diabetic Retinopathy Classification</a>	International Journal of Computational Intelligence Systems	19	1			2026
3	Jayalakshmi N.; Sakthivel K.	<a href="#">Enhancing GUI test case generation with multi-objective quasi-oppositional genetic sparrow</a>	Scientific Reports	16	1			2026
4	Saravanan V.; Babu P.; Shanmugasundaram P.	<a href="#">Active impulsive noise control using <math>\alpha</math>-score-matched robust filtered-x normalized adaptation</a>	Journal of Engineering and Applied Science	73	1			2026
5	R P.; K B J.; C R.; R S.	<a href="#">ViT-LoRA: Optimized vision transformer for efficient edge computing in medical imaging</a>	Microprocessors and Microsystems	121				2026
6	Yuvaraj K.; Arunvivek G.K.; Kumar P.; Sharma K.K.; Sembeta R.Y.	<a href="#">Influence of paper mill sludge ash on mechanical, microstructural and durability properties of metakaolin based geocrete</a>	Scientific Reports	16	1			2026
7	Suresh K.; Suresh Y.; Aravindhan S.; Kavitha M.; Karthika J.; Rajan C.	<a href="#">Data Contract Virtual Machine (DC-VM): An Intelligent Governance Architecture for Reliable and Privacy-preserving AI Pipelines</a>	International Journal of Intelligent Engineering and Systems	19	1	913	927	2026
8	Kiruthika K.; Sarumathi S.; Karpagam M.; Kaviarasu K.	<a href="#">Flemboda artificial intelligence: hybrid fuzzy-convolutional neural network for efficient chromosome abnormality classification</a>	Molecular Genetics and Genomics	301	1			2026
9	Kaliappan S.; Natrayan L.; Muthukannan M.; George Fernandez Raj A.; Ramya Maranan; Mohanavel V.; Soudagar M.E.M.; Arthanarieswaran V.P.	<a href="#">Performance evaluation of silane-treated sandwich-structured AL2O3 coated glass fabric and puya mirabilis fiber reinforced polyester composites</a>	Polymer Bulletin	83	5			2026
10	Tamilisai R.; Palanisamy P.N.; Selvasekarapandian S.; Mugilan D.	<a href="#">Solid Biopolymer Electrolytes for Sustainable and High-Performance Magnesium Batteries</a>	Journal of Applied Polymer Science					2026
11	Rajendran S.; Mani K.S.; Murugesan A.; Delgado T.; Prabha K.; Kaminsky W.; Acevedo R.	<a href="#">An efficient synthesis of 9-phenyl-3,4-dihydroacridin-1(2H)-one analogues: Crystal structures and theoretical physicochemical studies</a>	Journal of Molecular Structure	1350				2026

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12	Titus A.C.; Pramanik A.; Basak A.K.; Prakash C.; Shankar S.; Dixit A.R.; Radhika N.; Kumar S.; Goh K.W.	<a href="#">Investigation and comparison of the dimensional accuracy and mechanical properties of 17-4PH stainless steel fabricated using BMD and ADAM additive manufacturing</a>	International Journal on Interactive Design and Manufacturing						2026
13	Karunya S.; Balakrishnan V.; Saranya S.; Mythili Gnanamangai B.; Sundari T.	<a href="#">Multi-technique comparative analysis of bioactive metabolites in Alangium salviifolium (L.f.) Wangerin leaf, fruit and seed extracts using UV-Vis, FTIR, HPLC, LCMS and cytotoxicity evaluation on A431 cell line</a>	Natural Product Research						2026
14	Surendhiran S.; Deepika V.; Savitha S.; Naren Vidaarth T.M.; Jagan K.S.G.; Kathirselvam M.; Karthik A.	<a href="#">Investigation of physicochemical properties, biocompatibility, and electrochemical activity of Strychnos Potatorum seed mediated <math>\alpha</math>-iron oxide in human body fluids</a>	Materials Chemistry and Physics	350					2026
15	Indumathi M.; Mohanraj E.	<a href="#">Blockchain aided wearable piezoelectric technology for cardiac measurements using deep learning model</a>	Mechanics of Advanced Materials and Structures	33	1				2026
16	Shree Ram Senthil S.; Balamurugan R.	<a href="#">Hybrid approach of energy management and power quality enhancement in smart grid-connected hybrid renewable energy system</a>	Sustainable Energy Technologies and Assessments	85					2026
17	Sujit K.; Indhumathi K.; Mohan G.; Jose N.N.; Ramudu K.; Abdennaji T.S.; Cheepurupalli N.R.; Saidana T.; Fissaha Y.	<a href="#">Real-time construction safety monitoring using a drone based deep hybrid attention model</a>	Scientific Reports	16	1				2026
18	Koushick B.; Anbazhagan N.; Vignesh Raju R.; Jeeva N.	<a href="#">Fractional-order modeling and numerical analysis of double intermediate enzymatic reaction model using generalized Euler method</a>	Iranian Journal of Numerical Analysis and Optimization	16	1	77	101		2026
19	Muhsen O.; Ali S.A.; Fallahhusein M.; Dhanoj M.; Jansirani D.; Aravindan P.	<a href="#">Intelligent Filtering in Biomedical Literature Retrieval Systems</a>	Indian Journal of Information Sources and Services	16	1	297	305		2026
20	Natarajan E.P.; Rasu K.; Subramanian V.; Gowda M.	<a href="#">Wear behavior of sisal fiber reinforced polyester composites with calcium carbonate and kaolin fillers for structural panel applications</a>	Materialpruefung/Materials Testing	68	3	587	598		2026
21	Sukumar N.; Poongodi G.R.; Prabakaran K.; H K.; Vennila U.; Ranjethkumar S.; Karthikeyan G.	<a href="#">Innovative Pretreatment Enhances Strength Retention in Cross-Linked Cotton Yarns for Durable Textile Applications</a>	Journal of Natural Fibers	23	1				2026

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22	Bhat A.H.; Nguyen T.N.; Cengiz K.; Prabhu P.	<a href="#">An accurate and exact clustering algorithm for next generation sequencing metagenomic sequences</a>	Mathematical Methods in the Applied Sciences	49	5	3530	3545	2026
23	Biswas P.; Desai B.M.A.; Ghosh S.; Banerjee B.; Verma D.; Kathirselvam M.; Chauhan S.; Gupta P.K.	<a href="#">Nanonizing bioactives: precision chemistry for next-gen therapeutics</a>	Discover Materials	6	1			2026
24	Kaladevi P.; Kanimozhi N.; Nirmala B.; Sivasankari R.	<a href="#">Morpho-contour exponential estimation algorithm for predicting breast tumor growth from MRI imagery</a>	International Journal of Information Technology (Singapore)	18	1	569	584	2026
25	Singaram S.; Palaniappan A.; Muthusamy S.	<a href="#">Development and evaluation of novel energy management strategies based on hybrid energy storage systems for extended range electric vehicles to enhance battery lifespan and reduce fuel consumption</a>	Journal of Energy Storage	143				2026
26	Periyasamy M.; Balachandramohan M.; Surendhiran S.; Jagan K.S.G.; Balasankar A.; Oh T.H.; Ramasundaram S.; Somu P.	<a href="#">Tailoring the electrochemical performance of MoO<sub>3</sub> nanocomposites with MWCNTs and rGO for high-performance supercapacitors</a>	Scientific Reports	16	1			2026
27	Selvan V.A.T.; Sathish M.; Nathan S.R.; Sivasubramanian K.; Kumar A.R.; Aravindan A.; Das K.M.	<a href="#">Strengthening of Historical Masonry Domes Using Textile Reinforced Mortar</a>	MSW Management	36	1	1336	1341	2026
28	Duraisamy N.; Shenniagirivalasu Kandasamy K.; Dhandapani E.; Kandiah K.; Panchu S.J.; Swart H.C.	<a href="#">Biomass Derived 3D Hierarchical Porous Activated Carbon for Solid-State Symmetric Supercapacitors</a>	Journal of Inorganic and Organometallic Polymers and Materials	36	1	546	568	2026
29	Jesuraj J.P.; Arumugam K.; Balakrishnan S.	<a href="#">Influence of machining parameters on metal removal rate and surface roughness of stir casted AA8011 hybrid metal matrix composite</a>	Materialpruefung/Materials Testing					2026
30	Ayyanaar S.; Murugesan A.; Bhaskar R.; Sampath M.; Kandasamy K.; Sukantha T.A.	<a href="#">ROS-responsive starch coated green synthesized Iron oxide nanoparticles as potential vehicles for targeted drug delivery and cytotoxicity applications</a>	Inorganic Chemistry Communications	185				2026
31	Umachitra G.; Sampath P.S.; Karthik A.; Senthilkumar M.S.; Ramachandran K.; Rajeshkumar L.; Sathishkumar M.	<a href="#">Effect of halloysite nanotube addition on mechanical and thermal performance of banana/cotton hybrid natural fiber-reinforced polymer nanocomposites</a>	Materials Advances					2026

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32	Shankar M.; Tamilarasi M.	<a href="#">Hand gesture classification of EMG signal processing using a hyperparameter-tuned deep learning model</a>	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	49	2	374	390	2026
33	Mariyappan M.; Kumar P.S.; Vijayakumar R.; Chitra L.; Kumar A.S.; Ganeshkumar D.; Sebastian M.S.; Hussain W.W.; Roshan A.K.	<a href="#">Effect of Er<sup>3+</sup> Ions on the Spectroscopic Properties of Zinc Fluoroborate Glasses for Green Emitting Device and Optical Amplifier Applications</a>	Brazilian Journal of Physics	56	2			2026
34	Sukumar N.; Moges A.; Kalairasi H.; Prabakaran K.; Karthikeyan G.; Ranjethkumar S.	<a href="#">Development And Characterization Of ENSET Fiber Interchange Double Cloth Reinforced With Unsaturated Polyester Resin Composite</a>	Journal of Natural Fibers	23	1			2026
35	Soniya Lakshmi K.; Murugesan S.	<a href="#">Edge-Cloud Remote Sensing Plant Disease Detection via Multilayer Hyperbolic Lyrebird Convolutional Attention Networks</a>	IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)					2026
36	Surendhiran S.; Jagan K.S.G.; Naren Vidarth T.M.; Vinoth M.; Karthik A.; Rajendran V.	<a href="#">Photocatalytic prospects of phyto-fabricated CeO<sub>2</sub>-rGO nanocomposite as an eco-friendly catalyst for detoxification of contaminated water</a>	Diamond and Related Materials	162				2026
37	Kaliappan S.; Natrayan L.; Ramya M.; Mohanavel V.; Soudagar M.E.M.; Vijayan S.; Arthanarieswaran V.P.; Hussain B.I.	<a href="#">Mechanical, fatigue, creep and water absorption behaviour of silane surface treated pineapple fibre and tuna skin collagen powder epoxy composite</a>	Journal of Polymer Research	33	1			2026
38	Evangelin L.N.; Murugesan; Chelliah J.; Devi R.; Bharathi S.R.; Iyyadurai V.	<a href="#">Hybrid Deep Learning and Evolutionary Feature Selection for Real-Time Product Recommendations</a>	AUT Journal of Electrical Engineering	58	1	75	100	2026
39	Kumar G.S.; Priyan S.R.; Surendhiran S.; Ramalingam S.; Atchudan R.; Minh N.V.; Alam M.M.	<a href="#">Exploring the synergistic effects of rGO and MWCNT in NiO-based mesoporous hybrid nanostructures for supercapacitor applications</a>	Journal of Industrial and Engineering Chemistry	153		783	796	2026
40	Ranjani K.; Baranidharan T.; Ramal J.	<a href="#">Intelligent Deep Learning Based Fault Classification Using Dual-Stream Transformer-CNN with Self-Supervised Feature Refinement for Industrial Applications</a>	Tehnicki Vjesnik	33	1	159	165	2026
41	Panneerselvam A.; Senthilkumar V.M.; Senthil kumar R.; Satheeskumar S.; Selvakumar S.; Vella Durai S.C.	<a href="#">Structural behaviour and electrochemical study of V<sub>5</sub>-based LiTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> solid electrolyte material for lithium-ion batteries</a>	Journal of Power Sources	663				2026

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42	Vanchinathan S.; Balamurugan A.; Suresh K.C.; Kandasamy K.	<a href="#">Improved charge transfer and photocatalytic properties of BaO coupled TiO2 wrapped on rGO nanosheets for detoxification of contaminated waste waters</a>	Materials Science in Semiconductor Processing	204					2026
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