

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

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List of Scopus Indexed Journal Publications

Calendar year: **2022**

S.No	Authors	Title	Source title	Vol.	Issue	S. Page	E. Page	Year
1	Ramamoorthy S.; Surendhiran S.; Senthil Kumar D.; Murugesan G.; Kalaiselvi M.; Kavisree S.; Muthulingam S.; Murugesan S.	Evaluation of photocatalytic and corrosion properties of green synthesized zinc oxide nanoparticles	Journal of Materials Science: Materials in Electronics	33	12	9722	9731	2022
2	Ananda C.N.O.; Thirunavukkarasu P.; Balamurugan A.; Surendhiran S.	Study on preparation and characterisation of pure and lithium incorporated SnS thin films for solar cell applications	Chalcogenide Letters	19	9	651	662	2022
3	Moorthi M.; Murugesan A.; Alagumalai A.	Effect of nanoparticles on DI-DI engine characteristics fueled with biodiesel-diesel blends—A critical review	Journal of Thermal Analysis and Calorimetry	147	17	9163	9179	2022
4	Bai B.; Saranya S.; Dheepaasri V.; Muniyasamy S.; Alharbi N.S.; Selvaraj B.; Undal V.S.; Gnanamangai B.M.	Biosynthesized copper oxide nanoparticles (CuO NPs) enhances the anti-biofilm efficacy against K. pneumoniae and S. aureus	Journal of King Saud University - Science	34	6			2022
5	Vetrithangam D.; Senthilkumar V.; Neha; Kumar A.R.; Kumar P.N.; Sharma M.	Coronary Artery Disease Prediction Based On Optimal Feature Selection Using Improved Artificial Neural Network With Meta-Heuristic Algorithm	Journal of Theoretical and Applied Information Technology	100	24	4771	4782	2022
6	Deepika J.; Rajan C.; Senthil T.	Improved CAPSNET model with modified loss function for medical image classification	Signal, Image and Video Processing	16	8	2269	2277	2022
7	Araichimani P.; Prabu K.M.; Kumar G.S.; Karunakaran G.; Surendhiran S.; Shkir M.; AlFaify S.	Rice Husk-Derived Mesoporous Silica Nanostructure for Supercapacitors Application: a Possible Approach for Recycling Bio-Waste into a Value-Added Product	Silicon	14	15	10129	10135	2022
8	Moorthi M.; Murugesan A.; Alagumalai A.	Enhancement of fuel properties of Manilkara zapota biodiesel blend by doping green-synthesized silver nanoparticles	Applied Nanoscience (Switzerland)	12	12	3771	3781	2022
9	Shanmugam B.K.; Rangaraj S.; Subramani K.; Srinivasan S.; Kandhasamy N.; Arumugam K.; Periyasamy M.; Aicher W.K.; Venkatachalam R.	Biomimetic development of chitosan and sodium alginate-based nanocomposites contains zirconia for tissue engineering applications	Journal of Biomedical Materials Research - Part B Applied Biomaterials	110	8	1942	1955	2022
10	Santhosh M.; Satheskumar S.; Shanthy C.; Bhuvaneshwari B.V.	Influence of Cu substitution on structural, morphological and optical properties of Cr/ZnO nanopowders	Journal of Ovonic Research	18	2	113	120	2022

11	Krishnapriya R.K.; Vinodhini G.; Suban R.; Sakthivel K.	Machine Learning based Encryption Framework for Privacy Preservation in Covid 19 Data	International Journal of Engineering Trends and Technology	70	6	47	53	2022
12	Narmatha P.; Thangavel V.; Vidhya D.S.	A Hybrid RF and Vision Aware Fusion Scheme for Multi-Sensor Wireless Capsule Endoscopic Localization	Wireless Personal Communications	123	2	1593	1624	2022
13	Shantharaman P.P.; Anandkrishnan V.; Sathish S.; Ravichandran M.	Spark erosion behaviour of SiC and Ytria ceramic particles reinforced aluminium hybrid nano-composites	Journal of Ceramic Processing Research	23	5	589	594	2022
14	Kandhasamy N.; Srinivasan S.; Murugadoss G.; Venkatachalam R.	A non-aqueous nickel-manganese sulfide on rGO wrapped Ni-foam as a supercapacitor advanced electrode material	Journal of Materials Science: Materials in Electronics	33	29	22941	22956	2022
15	Kanagarathinam K.; Sankaran D.; Manikandan R.	Machine learning-based risk prediction model for cardiovascular disease using a hybrid dataset	Data and Knowledge Engineering	140				2022
16	Subbaiyan R.; Ganesan A.; Ramasubramanian B.	Self-potent anti-microbial and anti-fouling action of silver nanoparticles derived from lichen-associated bacteria	Applied Nanoscience (Switzerland)	12	8	2397	2408	2022
17	Jayaprakash S.; Balamurugan R.; Gopinath S.; Kokilavani T.; Maheswaran S.	3-Phase multi-inverter with cascaded H-bridge inverter designing and implementation for renewable system	Sustainable Energy Technologies and Assessments	52				2022
18	Satheeshkumar R.; Prabha K.; Vennila K.N.; Sayin K.; Güney E.; Kaminsky W.; Acevedo R.	Spectroscopic (FT-IR, NMR, single crystal XRD) and DFT studies including FMO, Mulliken charges, and Hirshfeld surface analysis, molecular docking and ADME analyses of 2-amino-4'-fluorobenzophenone (FAB)	Journal of Molecular Structure	1267				2022
19	Palanivelu R.; Sundharam S.; Sivasubramanian K.	Nano-characterization and in vitro bioactivity of chemically synthesized fluorapatite	Journal of the Australian Ceramic Society	58	5	1603	1614	2022
20	Geetha V.T.; Ramalingam G.; Pachamuthu M.P.; Gopinath S.; Ragupathi C.; Sukantha T.A.	Structure, Morphological, Magnetic, and Antibacterial Studies of Undoped and Ce/Mg-Doped NiO Nanoparticle Semiconductors Synthesized by Microwave Method	Journal of Superconductivity and Novel Magnetism	35	7	2021	2027	2022
21	Manjunath A.; Anandkrishnan V.; Ramachandra S.; Parthiban K.; Sathish S.	Investigations on the effect of build orientation on the properties of wire electron beam additive manufactured Ti-6Al-4V alloy	Materials Today Communications	33				2022
22	Rajivgandhi G.; Gnanamangai B.M.; Ramachandran G.; Chackaravarthy G.; Chelliah C.K.; Maruthupandy M.; Alharbi N.S.; Kadaikunnan S.; Li W.-J.	Effective removal of heavy metals in industrial wastewater with novel bioactive catalyst enabling hybrid approach	Environmental Research	204				2022
23	Krithika S.M.U.; Sampath M.B.; Prakash C.; Senthilkumar M.	Comfort properties of moisture management finished bi-layer knitted fabrics: Part II-Moisture Management	Indian Journal of Fibre and Textile Research	47	3	344	349	2022
24	Mani K.; Krithika S.M.U.; Krishna S.K.; Karthikeyan G.; Bharathi C.M.	Study on influence of count and stitch length on areal density of weft knitted fabrics	Asian Textile Journal	31	7-Jun	39	44	2022

25	Sivabharathy M.; Shree S.A.; Lenin N.; Praveen B.M.; Aithal P.S.; Kannan R.R.; Kumar A.S.; Ramachandran K.	Partial correlation of optical, electrical and magnetic properties of nanosized Zn–Cr–La ferrite particles synthesized by sonochemical method	Materials Today Communications	33					2022
26	Sriram G.; Bendre A.; Mariappan E.; Altalhi T.; Kigga M.; Ching Y.C.; Jung H.-Y.; Bhaduri B.; Kurkuri M.	Recent trends in the application of metal-organic frameworks (MOFs) for the removal of toxic dyes and their removal mechanism-a review	Sustainable Materials and Technologies	31					2022
27	Arumugam T.; Kinattinkara S.; Nambron D.; Velusamy S.; Shanmugamoorthy M.; Pradeep T.; Mageshkumar P.	An integration of soil characteristics by using GIS based Geostatistics and multivariate statistics analysis sultan Batheri block, Wayanad District, India	Urban Climate	46					2022
28	Anguraj P.; Krishnan T.; Subramanian S.	CMOS Implementation and Performance Analysis of Known Approximate 4:2 Compressors	Journal of Electronic Testing: Theory and Applications (JETTA)	38	4	353	370		2022
29	Manojkumar P.; Dheepanchakkravarthy A.; Senthil Kumar P.; Tamilsevi S.; Srinivasan C.	Effect of physiological and morphological response of Musa acuminata under stress condition with different salinity levels using IoT	International Journal of Environmental Science and Technology	19	6	5227	5238		2022
30	Ramakrishnan R.; Thangaswamy S.; Balasubramaian M.G.; Rajamanickam M.; Srinivasan N.; Ganesan D.S.	Bioactive Compounds of Schefflera stellata (Geartn.) Baill. Leaf Methanolic Extract and their Cytotoxic Effect on Lung cancer Cell Line (A549)	Indian Journal of Pharmaceutical Education and Research	56	3	s469	s478		2022
31	Bharathi C.M.; Anitha S.; Karthikeyan G.; Karthikeyan T.; Kumar G.A.; Krithika S.M.U.; Mani K.; Nivetha S.	Sericin treated spunlace fabric for wound healing	Asian Textile Journal	31	11	42	46		2022
32	Poornima S.; Manikandan S.; Karthik V.; Balachandar R.; Subbaiya R.; Saravanan M.; Lan Chi N.T.; Pugazhendhi A.	Emerging nanotechnology based advanced techniques for wastewater treatment	Chemosphere	303					2022
33	Jeyaprakasam S.; Kathirselvam M.; Velmurugan C.; Venkatachalam R.	Experimental study of process parameters on machining performance in electro-discharge machining of 6061al/ti/gr composites	Surface Review and Letters	29	4				2022
34	Muthukumar S.; Sureshkumar S.; Malleswaran A.; Muthamilselvan M.; Prem E.	Effects of uniform or non-uniform heating at bottom wall on MHD mixed convection in a porous cavity saturated by nanofluid	International Journal of Nonlinear Sciences and Numerical Simulation	23	2	177	196		2022
35	Jayakumari M.; Rajalakshmi M.; Priyalatha S.; Kapoor V.; Sampath M.B.; Suganth G.; Prakash C.	Investigation of change in sewing needle temperature: Part I: Influence of fabric types and sewing parameters	Journal of Testing and Evaluation	50	5				2022
36	Jamuna M.; Gandhimathi M.; Abdul Bari J.; Niveditha T.	Florida's Aquifer Vulnerability to Nitrate Contamination: A GIS Model	Nature Environment and Pollution Technology	21	1	247	253		2022
37	Pauline Sheela P.A.; Kesavan M.P.; Abdul Khader Jailani N.M.; Lenin N.	Poly(methyl methacrylate)-gelatin porous polymeric scaffolds for controlled drug delivery	Journal of Porous Materials	29	5	1423	1430		2022
38	Udaya Krithika S.M.; Sampath M.B.; Prakash C.; Senthil Kumar M.	Comfort properties of moisture management finished bi-layer knitted fabrics: Part I - Thermal comfort	Indian Journal of Fibre and Textile Research	47	2	177	180		2022

39	Araichimani P.; Prabu K.M.; Suresh Kumar G.; Karunakaran G.; Surendhiran S.; Shkir M.; Ali H.E.	Synthesis of Fe₃O₄-decorated SiO₂ nanostructure using rice husk as a source by microwave combustion for the development of a magnetically recoverable adsorbent	Ceramics International	48	7	10339	10345	2022
40	Ramakrishnan R.; Thangaswamy S.; Balasubramanian M.G.; Rajamanickam M.; Ganesan D.S.	Docking of potentially bioactive compounds from Schefflera stellata (Geartn.) Baill against Epidermal Growth Factor Receptor in Lung cancer	Research Journal of Chemistry and Environment	26	12	57	67	2022
41	Kanakarajan P.; Moganapriya C.; Rajasekar R.; Sundaram S.; Syed Thasthagir M.; Soundararajan S.; Manu Barath K.	ANALYSIS OF SiC GRINDING WHEEL WEAR AND SURFACE ROUGHNESS IN MACHINING OF Al₂O₃ ADVANCED CERAMIC USING REGRESSION MODEL	Surface Review and Letters	29	6			2022
42	Ragupathy M.; Ramasubramanian B.; Rajagopalan K.; Ganesan A.	Electrocatalytic response of the modified ZnO-G electrodes towards the oxidation of serotonin with multi metallic corrosion protection	Journal of the Indian Chemical Society	99	11			2022
43	Prabha K.; Satheeshkumar R.; Nasif V.; Saranya J.; Sayin K.; Natarajan J.; Chandrasekar C.; Rajendra Prasad K.J.	Synthesis, In Vitro Cytotoxicity, and DFT Studies of Novel 2-Amino Substituted Benzonaphthyridines as PDK1 Inhibitors	ChemistrySelect	7	13			2022
44	Gnanamangai B.M.; Philip Robinson J.; Ponmurugan P.; AL-mekhlafi F.A.; Farrag M.A.; Maruthupandy M.; Selvankumar T.; Sudhakar C.	Molecular characterization of the phytopathogen C. theae (Petch) – Causative of birds eye spot infection in Camellia sinensis host through DNA polymorphism and proteome analysis	Physiological and Molecular Plant Pathology	118				2022
45	Uthirasamy N.; Tamilvanan K.; Nashine H.K.; George R.	Solution and Stability of Quartic Functional Equations in Modular Spaces by Using Fatou Property	Journal of Function Spaces	2022				2022
46	Lakshmanpriya C.; Kumaravel A.; Saravanan M.; Manoj Kumar P.	Selecting the Optimal Green Supplier and Order Allocation under Linear Discount	Mathematical Problems in Engineering	2022				2022
47	Poornima S.; Rajivgandhi G.; Maruthupandy M.; Mothana R.A.; Noman O.M.; Nasr F.A.; Ponmurugan P.; Moorthy I.G.; Sivarajasekar N.	Statistical modeling and optimization for the production of secondary metabolites by lichen mycobiont isolated from Parmotrema austrosinense	Physiological and Molecular Plant Pathology	117				2022
48	Gnanamangai B.M.; Ramachandran G.; Maruthupandy M.; Priya V.M.; Karthikeyan G.; Mothana R.A.; Noman O.M.; Nasr F.A.	Bioactive compounds coated 2D scaffold from seeds of Carica papaya for bacterial and parasitic skin infections	Physiological and Molecular Plant Pathology	117				2022
49	Periyannan L.; Subramaniam D.; Saravanan P.; Elayaraja R.; Murugesan A.	Performance and emission characteristics of a naturally aspirated direct injection diesel engine fuelled with Calophyllum Inophyllum (Punnai) methyl ester	International Journal of Ambient Energy	43	1	3638	3644	2022
50	Kumar M.S.S.; Selvan C.P.; Santhanam K.; Kadirvel A.; Chandraprabu V.; Sampathkumar L.	Effect of Nanomaterials on Tribological and Mechanical Properties of Polymer Nanocomposite Materials	Advances in Materials Science and Engineering	2022				2022

51	Karthikeyan K.; Tamizharasan D.	Novel results of weak solutions for fractional integrodifferential equations involving Gronwall inequality in Banach spaces	Mathematics in Engineering, Science and Aerospace	13	2	535	544	2022
52	Ashwin K.R.N.; Arulmozhi S.; Gopalan A.; Mageshkumar P.; Rangaraj A.; Panneerselvam M.; Nirmala Devi B.; Aravindhana C.; Prasath E.; David Ladu N.S.	Correlation, Regression Analysis, and Spatial Distribution Mapping of WQI for an Urban Lake in Noyyal River Basin in the Textile Capital of India	Advances in Materials Science and Engineering	2022				2022
53	Shanmughan S.; Velusamy S.; Nallasamy J.L.; Selvakumar K.P.; Thirumorthy P.; Saravanan M.M.; Sakthivel H.; Periyasamy M.; Kasirajan R.	Critical Study on Corrosion Inhibitors in U-Shaped RCC Beams	Advances in Materials Science and Engineering	2022				2022
54	Gopinath S.; Sakthivel K.; Lalitha S.	A plant disease image using convolutional recurrent neural network procedure intended for big data plant classification	Journal of Intelligent and Fuzzy Systems	43	4	4173	4186	2022
55	Mehbodniya A.; Bhatia S.; Mashat A.; Elangovan M.; Sengan S.	Proportional fairness based energy efficient routing in wireless sensor network	Computer Systems Science and Engineering	41	3	1071	1082	2022
56	Karthikeyan K.; Senthil Raja D.; Sundararajan P.	Impulsive Functional-Controllability Problem for Fractional Integro-Differential Evolution Systems of Mixed Type with the Measure of Noncompactness	Discontinuity, Nonlinearity, and Complexity	11	3	459	472	2022
57	Sountharajan S.; Karthiga M.; Suganya E.; Rajan	Alzheimer's Dementia: Diagnosis and Prognosis using Neuro-Imaging Analysis	Journal of Pharmaceutical Negative Results	13	4	46	63	2022
58	Gemechu D.A.; Prabakaran K.; Lalithamani; Nagarajan S.; Umamaheswaran S.; Umamageshwari S.; Feyisa M.L.	Stability Results of Thermal Control System with Time-Dependent Delays and Perturbations of Nonlinearity	Advances in Materials Science and Engineering	2022				2022
59	Senthil T.; Rajan C.; Deepika J.	An Efficient Handwritten Digit Recognition Based on Convolutional Neural Networks with Orthogonal Learning Strategies	International Journal of Pattern Recognition and Artificial Intelligence	36	1			2022
60	Yuvaraj K.; Ramesh S.	Performance study on strength, morphological, and durability characteristics of coal pond ash concrete	International Journal of Coal Preparation and Utilization	42	8	2233	2247	2022
61	Jagadeesan P.; Sudharsan N.; Subash S.M.; Thirumorthy P.; Sugumaran B.; Bari J.A.; Vetturayasudharsanan R.; Ambika D.; Sharmiladevi K.; Karuppanan K.	Study on Performance of Infilled Wall in an RC-Framed Structure Using a Reinforcing Band	Advances in Materials Science and Engineering	2022				2022
62	Manjunath A.; Anandkrishnan V.; Ramachandra S.; Parthiban K.; Sathish S.	Optimization of Tribological Parameters of Pre-Positioned Wire Based Electron Beam Additive Manufactured Ti-6Al-4V Alloy	Archives of Metallurgy and Materials	67	2	447	454	2022

63	Bharathi V.; Sakthivel K.	Unmanned mobile robot in unknown obstacle environments for multi switching control tracking using adaptive nonlinear sliding mode control method	Journal of Intelligent and Fuzzy Systems	43	3	3513	3525	2022
64	Poongodi K.; Sabari A.	Identification of Bio-Markers for Cancer Classification Using Ensemble Approach and Genetic Algorithm	Intelligent Automation and Soft Computing	33	2	939	953	2022
65	Raag Harshavardhan P.; Subbaiyan A.; Vasavi U.; Thirumoorthy P.; Periyasamy M.; Jesteena Johney J.; Ragunathan R.; Pichaipillai S.; Velusamy S.; Balamoorthy D.	Enhanced Biodegradation of Battery-Contaminated Soil Using Bacillus sp. (MZ959824) and Its Phytotoxicity Study	Advances in Materials Science and Engineering	2022				2022
66	Uthirasamy N.; Tamilvanan K.; Kabeto M.J.	Ulam Stability and Non-Stability of Additive Functional Equation in IFN-Spaces and 2-Banach Spaces by Different Methods	Journal of Function Spaces	2022				2022
67	Muthusamy K.; Arumugam K.; Virumandampalayam Ponnusamy A.	Evaluation of Wear Properties and Water Absorption Behavior of Banana and Sisal Fiber Reinforced Epoxy Hybrid Composites: Influence of Fiber Length	Journal of Natural Fibers	19	15	10447	10461	2022
68	Mothilal B.; Sampath Kumar S.; Prakash C.; Kumar K.H.; Venkatesh B.; Sivamani S.; Karthikeyan G.	Musa Acuminata Leaves Extract Impedes Bacterial Growth and Ultraviolet Protection in Cotton Fabric	Journal of Natural Fibers	19	15	10269	10278	2022
69	Karthikeyan K.; Reunsumrit J.; Karthikeyan P.; Poornima S.; Tamizharasan D.; Sitthiwirattham T.	Existence Results for Impulsive Fractional Integrodifferential Equations Involving Integral Boundary Conditions	Mathematical Problems in Engineering	2022				2022
70	Nagappan S.; Subramani S.P.; Palaniappan S.K.; Mylsamy B.	Impact of alkali treatment and fiber length on mechanical properties of new agro waste Lagenaria Siceraria fiber reinforced epoxy composites	Journal of Natural Fibers	19	13	6853	6864	2022
71	Poornima R.; Elangovan M.; Nagarajan G.	Network attack classification using LSTM with XGBoost feature selection	Journal of Intelligent and Fuzzy Systems	43	1	971	984	2022
72	Khader S.Z.A.; Ahmed S.S.Z.; Mahboob M.R.; Prabakaran S.B.; Lakshmanan S.O.; Kumar K.R.; David D.	In vitro anti-inflammatory, anti-arthritis and antiproliferative activity of green synthesized silver nanoparticles-Phoenix dactylifera (Rothan dates)	Brazilian Journal of Pharmaceutical Sciences	58				2022
73	Karthikeyan K.; Senthil Raja D.; Sundararajan P.	Analysis Of Solutions For The Boundary Value Problems Of Nonlinear Fractional Integrodifferential Equations Involving Gronwall'S Inequality In Banach Spaces	Journal of Applied Mathematics and Informatics	40	2-Jan	305	316	2022

74	Kandasamy S.; Velusamy S.; Thirumoorthy P.; Periyasamy M.; Senthilkumarveerasamy; Gopalakrishnan K.M.; Sathish U.; Kiramani V.; Antrini F.D.G.; Periyasamy S.	Adsorption of Chromium Ions from Aqueous Solutions by Synthesized Nanoparticles	Journal of Nanomaterials	2022					2022
75	Harish R.; Ramesh S.; Mageshkumar P.; Suresh M.	Multi-Criteria Decision Making Approach The Suitable Site Selection For Alternate Landfill Using Rs And Gis Technology In Palani Corporation, Dindigul District, South India	Journal of Environmental Protection and Ecology	23	3	1211	1224		2022
76	Rajivgandhi G.; Mythili Gnanamangai B.; Heela Prabha T.; Poornima S.; Maruthupandy M.; Alharbi N.S.; Kadaikunnan S.; Li W.-J.	Biosynthesized zinc oxide nanoparticles (ZnO NPs) using actinomycetes enhance the anti-bacterial efficacy against K. Pneumoniae	Journal of King Saud University - Science	34	1				2022
77	Suganthi M.; Ramesh N.	Treatment Of Water Using Natural Zeolite As Membrane Filter	Journal of Environmental Protection and Ecology	23	2	520	530		2022
78	Rajakkannu R.; Rangaswamy B.	An Enhanced Modified Multiport Interleaved Flyback Converter for Photovoltaic-Shunt Active Power Filter (PV-SHAPF) Applications	International Transactions on Electrical Energy Systems	2022					2022
79	Chalishajar D.N.; Karthikeyan K.; Tamizharasan D.	Controllability of Nonlocal Impulsive Functional Differential Equations with Measure of Noncompactness in Banach Spaces	Tatra Mountains Mathematical Publications	79	2	59	80		2022
80	Aruchamy K.; Subramani S.P.; Palaniappan S.K.; Pal S.K.; Mylsamy B.; Chinnasamy V.	Effect of Blend Ratio on the Thermal Comfort Characteristics of Cotton/Bamboo Blended Fabrics	Journal of Natural Fibers	19	1	105	114		2022