

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

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List of Scopus Indexed Journal Publications

Calendar year: **2020**

S.No	Authors	Title	Source title	Vol.	Issue	S. Page	E. Page	Year
1	Subramani K.; Shanmugam B.K.; Rangaraj S.; Murugan V.; Srinivasan S.; Awitor O.K.; Massard C.; Venkatachalam R.	Functional and antimicrobial properties of herbal nanocomposites from Piper betle plant leaves for enhanced cotton fabrics	Journal of Coatings Technology and Research	17	5	1363	1375	2020
2	Vasudevan D.; Senthilkumar D.; Surendhiran S.	Performance and Characterization Studies of Reduced Graphene Oxides Aqua Nanofluids for a Pool Boiling Surface	International Journal of Thermophysics	41	6			2020
3	Rajendran K.; Poornima S.; Ponnusamy P.	Antimicrobial and antiproliferative activities of depside compound isolated from the mycobiont culture of parmotrema austrosinense (Zahlbr.) hale	Journal of Pure and Applied Microbiology	14	4	2525	2541	2020
4	Vijaya Kumar V.; Devi M.; Vishnu Raja P.; Kanmani P.; Priya V.; Sudhakar S.; Sujatha K.	Design of peer-to-peer protocol with sensible and secure IoT communication for future internet architecture	Microprocessors and Microsystems	78				2020
5	Kartharinal Punithavathy I.; Rajeshwari A.; Johnson Jeyakumar S.; Lenin N.; Vigneshwaran B.; Jothibas M.; Arunkumar B.	Impact of lanthanum ions on magnetic and dielectric properties of cobalt nanoferrites	Journal of Materials Science: Materials in Electronics	31	12	9783	9795	2020
6	Kandasamy S.; Rathinasamy P.; Nagarajan N.; Arumugam K.; Rathanasamy R.; Velu Kaliyannan G.	Corrosion behavioral studies on AA7075 surface hybrid composites tailored through friction stir processing	Anti-Corrosion Methods and Materials	67	4	345	355	2020
7	Sujatha K.; Seethalakshmi T.; Sudha A.P.; Shanmugasundaram O.L.	Photoluminescence properties of pure, Fe-doped and surfactant-assisted Fe-doped tin-oxide nanoparticles	Bulletin of Materials Science	43	1			2020
8	Arya S.; Subramani T.; Vennila G.; Roy P.D.	Groundwater vulnerability to pollution in the semi-arid Vattamalaikarai River Basin of south India thorough DRASTIC index evaluation	Chemie der Erde	80	4			2020
9	Mani S.; Balasubramanian B.; Balasubramani R.; Chang S.W.; Ponnusamy P.; Esmail G.A.; Arasu M.V.; Al-Dhabi N.A.; Duraipandiyam V.	Synthesis and characterization of proanthocyanidin-chitosan nanoparticles: An assessment on human colorectal carcinoma HT-29 cells	Journal of Photochemistry and Photobiology B: Biology	210				2020
10	Sekar S.; Lee S.; Vijayarengan P.; Kalirajan K.M.; Santhakumar T.; Sekar S.; Sadhasivam S.	Upcycling of wastewater via effective photocatalytic hydrogen production using MnO₂ nanoparticles—decorated activated carbon nanoflakes	Nanomaterials	10	8	1	12	2020

11	Karthik A.; Sampath P.S.	Analysis of thrust force in drilling cotton with bamboo blended fibre-reinforced composites using box-behnken methodology	Indian Journal of Fibre and Textile Research	45	3	267	273	2020
12	Saravanan N.; Sasikumar K.S.K.	Engine combustion test using algae biofuel with nanofluid	Journal of Scientific and Industrial Research	79	9	854	857	2020
13	Poornima S.; Divya P.; Karmegam N.; Karthik V.; Subbaiya R.	Aqueous two-phase partitioning and characterization of xylanase produced by Streptomyces geysiriensis from low cost lignocellulosic substrates	Journal of Bioscience and Bioengineering	130	6	571	576	2020
14	Vasudevan D.; Senthil Kumar D.; Murugesan A.; Vijayakumar C.	Experimental investigation and characteristics of multiwalled carbon nanotube aqua nanofluids from a flat plate heater surface in a pool	Bulletin of the Polish Academy of Sciences: Technical Sciences	68	3	547	554	2020
15	Krithika S.M.U.; Prakash C.; Sampath M.B.; Senthilkumar M.	Micro-polyester filament yarns and their fabric moisture transport characteristics for sportswear applications	Chemical Fibers International	70	4	135	137	2020
16	Prakash C.; Udaya Krithika S.M.; Pachiyappan K.M.; Sampath M.B.; Mothilal B.	Application of ultrasonic technology in textile processing industry	Asian Dyer	17	5	54	55	2020
17	Kalpna B.; Prabhu P.; Bhat A.H.; Senthilkumar A.; Arun R.P.; Asokan S.; Gunthe S.S.; Verma R.S.	Bacterial diversity and functional analysis of severe early childhood caries and recurrence in India	Scientific Reports	10	1			2020
18	Sathisaran I.; Balasubramanian M.	Physical characterization of chitosan/gelatin-alginate composite beads for controlled release of urea	Heliyon	6	11			2020
19	Saranya N.; Geetha K.; Rajan C.	Data Replication in Mobile Edge Computing Systems to Reduce Latency in Internet of Things	Wireless Personal Communications	112	4	2643	2662	2020
20	Radha R.; Gopalakrishnan R.	A medical analytical system using intelligent fuzzy level set brain image segmentation based on improved quantum particle swarm optimization	Microprocessors and Microsystems	79				2020
21	Murugesan A.; Avinash A.; Gunasekaran E.J.; Murugaganesan A.	Multivariate analysis of nano additives on biodiesel fuelled engine characteristics	Fuel	275				2020
22	Varadharaj V.; Ramaswamy A.; Sakthivel R.; Subbaiya R.; Barabadi H.; Chandrasekaran M.; Saravanan M.	Antidiabetic and Antioxidant Activity of Green Synthesized Starch Nanoparticles: An In Vitro Study	Journal of Cluster Science	31	6	1257	1266	2020
23	Abdul Bari J.; Vennila G.	Spatial analysis of rainfall in northern part of Erode district, Tamil Nadu, India using GIS	Indian Journal of Geo-Marine Sciences	49	6	1108	1113	2020
24	Suresh K.C.; Surendhiran S.; Manoj Kumar P.; Ranjth Kumar E.; Khadar Y.A.S.; Balamurugan A.	Green synthesis of SnO2 nanoparticles using Delonix elata leaf extract: Evaluation of its structural, optical, morphological and photocatalytic properties	SN Applied Sciences	2	10			2020

25	Gnanasekaran M.; Mohan K.; Kumaravel A.; Magibalan S.	Characterization, corrosion behavior, effect of temperature and inhibition studies on AA6351 frictional surfaced mild steel	Journal of Materials Research and Technology	9	6	16080	16092	2020
26	Nagaraj S.; Mohanraj E.	A novel fuzzy association rule for efficient data mining of ubiquitous real-time data	Journal of Ambient Intelligence and Humanized Computing	11	11	4753	4763	2020
27	Karpagam M.; Brumancia E.; Rathan K.; Geetha K.; Rajan C.	Enhancing pathologic staging diagnosis of lung cancer using datamining techniques	International Journal of Pharmaceutical Research	12	3	1598	1606	2020
28	Sekar S.; Lee S.; Kim D.Y.; Preethi V.; Kalirajan K.M.; Sutha S.; Saravanan S.; Therli A.; Roy M.; Jagannathan K.	Biomass activated carbon-decorated spherical β-Ni(OH)₂ nanoparticles for enhanced hydrogen production from sulphide wastewater	Journal of Water Process Engineering	38				2020
29	Sampath M.B.; Prakash C.; Senthil Kumar M.	Influence of moisture management finish on comfort characteristics of knitted fabrics made from different yarns	Indian Journal of Fibre and Textile Research	45	1	102	108	2020
30	Arulmurugan L.; Ilangkumaran M.	Experimental study on graphene/transition metal chalcogenide based energy storage and conversion	Journal of Ovonic Research	16	4	197	211	2020
31	Subramaniam D.; Murugesan A.; Avinash A.; Panneerselvam N.; Vijayakumar C.	Investigation on emission reduction potential of nickel and zinc coated catalytic converters	Progress in Industrial Ecology	14	2	126	139	2020
32	Sountharajan S.; Suganya E.; Aravindhraj N.; Sankarananth S.; Rajan C.	HDFS-based parallel and scalable pattern mining using clouds for incremental data	International Journal of Computer Aided Engineering and Technology	13	2-Jan	28	45	2020
33	Aruchamy K.; Pavayee Subramani S.; Palaniappan S.K.; Sethuraman B.; Velu Kaliyannan G.	Study on mechanical characteristics of woven cotton/bamboo hybrid reinforced composite laminates	Journal of Materials Research and Technology	9	1	718	726	2020
34	Shingne H.; Sountharajan S.; Karthiga M.; Rajan C.	Lasso and ridge regression for optimized resource allocation in cloud computing	Journal of Advanced Research in Dynamical and Control Systems	12	2	1740	1747	2020
35	Raja D.S.; Sundararajan P.; Karthikeyan K.	Controllability problem for fractional impulsive integrodifferential evolution systems of mixed type with the measure of noncompactness	Results in Nonlinear Analysis	3	2	85	99	2020
36	Balu S.; Sampath P.S.; Bhuvaneshwaran M.; Chandrasekar G.; Karthik A.; Sagadevan S.	Dynamic mechanical analysis and thermal analysis of untreated <i>Coccinia indica</i> fiber composites: [Dynamiczna analiza mechaniczna i analiza termiczna kompozytów z niepoddanymi obróbcie włóknami <i>Coccinia indica</i>]	Polimery/Polymers	65	5	357	362	2020
37	Balasubramani G.; Thangavelu V.; Chinnusamy M.; Subramaniam U.; Padmanaban S.; Mihet-Popa L.	Infrared thermography based defects testing of solar photovoltaic panel with fuzzy rule-based evaluation	Energies	16	3			2020
38	Senthil kumar V.; Prasanth K.	Weighted Rendezvous Planning on Q-Learning Based Adaptive Zone Partition with PSO Based Optimal Path Selection	Wireless Personal Communications	110	1	153	167	2020

39	Padmapriya G.; Duraiswamy K.	Multi-document-based text summarisation through deep learning algorithm	International Journal of Business Intelligence and Data Mining	16	4	459	479	2020
40	Khader S.Z.A.; Syed Zameer Ahmed S.; Ganesan G.M.; Mahboob M.R.; Vetrivel M.; Sankarappan M.; Manickam P.	Rhynchosia rufescens AgNPs enhance cytotoxicity by ROS-mediated apoptosis in MCF-7 cell lines	Environmental Science and Pollution Research	27	2	2155	2164	2020
41	Sethuraman B.; Subramani S.P.; Palaniappan S.K.; Mylsamy B.; Aruchamy K.	Experimental investigation on dynamic mechanical and thermal characteristics of Coccinia Indica fiber reinforced polyester composites	Journal of Engineered Fibers and Fabrics	15				2020
42	Karuppanan K.; Govindasamy V.	Behaviour of hybrid fibre reinforced concrete-filled steel tubular beams and columns: [Comportamento de fibra híbrida reforçada vigas tubulares aço e colunas tubulares aço cheias de concreto]	Revista Materia	25	1			2020
43	Selvi T.; Gowri V.	Detection of rbc agglutination in blood typing tests using integrated light eye technology (Ileyet)	Journal of Advanced Research in Dynamical and Control Systems	12	4 Special Issue	1822	1827	2020
44	Venkatesan R.; Sabari A.	Issues in various recommender system in e-commerce - A survey	Journal of Critical Reviews	7	7	604	608	2020
45	Rajeshwari A.; Kartharinal Punithavthy I.; Johnson Jeyakumar S.; Lenin N.; Vigneshwaran B.	Dependence of lanthanum ions on structural, magnetic and electrical of manganese based spinel nanoferrites	Ceramics International	46	5	6860	6870	2020
46	Suganya E.; Aravindhraj N.; Sountharajan S.; Sathish Kumar G.; Rajan C.	Automatic classification for preventing duplication of online multimedia data in secure cloud infrastructure	International Journal of Advanced Intelligence Paradigms	16	4-Mar	404	413	2020
47	Udaya Krithika S.M.; Prakash C.; Sampath M.B.; Senthil Kumar M.	Thermal comfort properties of bi-layer knitted fabrics	Fibres and Textiles in Eastern Europe	28	5	50	55	2020
48	Mylsamy B.; Chinnasamy V.; Palaniappan S.K.; Subramani S.P.; Gopalsamy C.	Effect of surface treatment on the tribological properties of Coccinia Indica cellulosic fiber reinforced polymer composites	Journal of Materials Research and Technology	9	6	16423	16434	2020
49	Sengan S.; Priya V.; Syed Musthafa A.; Ravi L.; Palani S.; Subramaniaswamy V.	A fuzzy based high-resolution multi-view deep CNN for breast cancer diagnosis through SVM classifier on visual analysis	Journal of Intelligent and Fuzzy Systems	39	6	8573	8586	2020
50	Brindha R.; Mohanraj R.; Manojkumar P.; Selvam M.; Sakthipandi K.	Hybrid Electrochemical Behaviour of La1-xCaxMnO3Nano Perovskites and Recycled Polar Interspersed Graphene for Metal-Air Battery System	Journal of the Electrochemical Society	167	12			2020
51	Syed Zameer Ahmed S.; Balu N.; Khader S.Z.A.; Mahboob M.R.; Lakshmanan S.O.; Vetrivel M.	Fabrication and evaluation of bamboo fabric coated with extracts of Curcuma longa, Centella asiatica and Azadirachta indica as a wound dressing material	Advances in Traditional Medicine					2020
52	Kanmani P.; Priya V.; Yuvaraj N.; Sudhakar S.; Sriram V.P.	Inaccuracy correction method for moving shapes and shadows in video coding object	International Journal of Scientific and Technology Research	9	3	4561	4566	2020

53	Kolathupalayam Shanmugam B.; Rangaraj S.; Subramani K.; Srinivasan S.; Aicher W.K.; Venkatachalam R.	Biomimetic TiO2-chitosan/sodium alginate blended nanocomposite scaffolds for tissue engineering applications	Materials Science and Engineering C	110					2020
54	Chenniappan C.; Daniel G.M.; Ponnusamy P.; Narayanasamy M.	Association of multiple fungal pathogens to rhizome rot disease of turmeric	Archives of Phytopathology and Plant Protection	53	10-Sep	440	458		2020
55	Divya P.; Kanimozhi K.; Poornima S.; Tamilarasu S.	Shelf life and physicochemical evaluation of Azolla pinnata incorporated yogurt	Journal of Critical Reviews	7	7	770	773		2020
56	Hemamalini R.	An integrative model to explore the relationship of work-family interface with organisational commitment	International Journal of Human Resources Development and Management	20	2	166	177		2020
57	Udaya Krithika S.M.; Prakash C.; Sampath M.B.; Senthil Kumar M.	Moisture management characteristics of active sportswear	Asian Textile Journal	29	1	50	54		2020
58	Mageshkumar P.; Vennila G.	Assessment of errors in water quality data using ion balancing methods - A case study from Cauvery River, South India	Indian Journal of Geo-Marine Sciences	49	1	57	62		2020
59	Shanmugam M.; Thiyagarajah K.; Rajesh P.; Shajin F.H.	Ideal position and size selection of unified power flow controllers (Upfcs) to upgrade the dynamic stability of systems: An antlion optimiser and invasive weed optimisation algorithm	HKIE Transactions Hong Kong Institution of Engineers	27	1	25	37		2020
60	Gowthamani R.; Sasi Kala Rani K.; Mohanraj E.; Sudhakar S.	Enhancing security through blockchain technology –A quick review	International Journal of Scientific and Technology Research	9	2	5126	5129		2020
61	Arthanarisamy M.; Alagumalai A.; Arumugam K.	An experimental insight into optimized biodiesel production and external re-breathing of burned gases on biodiesel combustion	Journal of Thermal Analysis and Calorimetry	139	3	2109	2118		2020
62	Natesan K.; Ponmurugan P.; Gnanamangai B.M.; Suganya M.; Kavitha S.	Biosynthesis of silver nanoparticles from streptomyces spp., characterization and evaluating of its efficacy against phomopsis theae and poria hypolateria in tea plants (camellia sinensis)	Nano Biomedicine and Engineering	12	3	272	280		2020
63	Thangavelu S K.; Arthanarisamy M.	Experimental investigation on engine performance, emission, and combustion characteristics of a DI CI engine using tyre pyrolysis oil and diesel blends doped with nanoparticles	Environmental Progress and Sustainable Energy	39	2				2020
64	Arun R.; Balamurugan R.	Distributed Entropy Energy-Efficient Clustering algorithm for cluster head selection (DEEEEC)	Journal of Intelligent and Fuzzy Systems	39	6	8139	8147		2020
65	Jayapandiyan J.R.; Kavitha C.; Sakthivel K.	Enhanced Least Significant Bit Replacement Algorithm in Spatial Domain of Steganography Using Character Sequence Optimization	IEEE Access	8		136537	136545		2020
66	Sasikala E.; Radha R.; Gopalakrishnan R.	A review on pathology report based cancer diagnosing system using intelligent techniques	International Journal of Advanced Science and Technology	29	3	6592	6608		2020

67	Parthipan N.; Ilangkumaran M.; Maridurai T.; Prasanna S.C.	Effect of Silane Treated Silicon (IV) Oxide Nanoparticle Addition on Mechanical, Impact Damage and Drilling Characteristics of Kenaf Fibre-Reinforced Epoxy Composite	Silicon	12	2	459	467	2020
68	Karpagam M.; Geetha K.; Rajan C.	Hierarchical clustering analysis for specific liver disease-dengue hemorrhagic fever (Dhf)	International Journal of Pharmaceutical Research	12		2546	2552	2020
69	Subramani K.; Saha R.; Palanisamy S.; Kolathupalayam Shanmugam B.; Rangaraj S.; Murugan V.; Srinivasan S.; Venkatachalam R.; Aicher W.K.	Wet chemical preparation of herbal nanocomposites from medicinal plant leaves for enhanced coating on textile fabrics with multifunctional properties	SN Applied Sciences	2	4			2020
70	Umashankaran M.; Gopalakrishnan S.; Sathish S.	Preparation and characterization of tensile and bending properties of basalt-kenaf reinforced hybrid polymer composites	International Journal of Polymer Analysis and Characterization	25	4	227	237	2020
71	Lalithamani N.; Prabakaran K.; Ramesh R.	Intuitionistic fuzzy ideals and intuitionistic fuzzy filters of ternary semigroups	Advances in Mathematics: Scientific Journal	9	11	9535	9540	2020
72	Sureshkumar S.; Muthukumar S.; Muthamilselvan M.; Doh D.-H.; Cho G.-R.; Prem E.	MHD convection of nanofluid in porous medium influenced by slanted Lorentz force	European Physical Journal: Special Topics	229	3-Feb	331	346	2020
73	Senthilkumar R.; Geetha B.G.	Asymmetric key blum-goldwasser cryptography for cloud services communication security	Journal of Internet Technology	21	4	929	939	2020
74	Jawahar M.; Sabari A.	Survival study on privacy preservation-based security techniques for load balancing in cloud computing	International Journal of Business Information Systems	33	2	180	195	2020
75	Gangadhar K.; Kannan T.; Sakthivel G.; DasaradhaRamaiah K.	Unsteady free convective boundary layer flow of a nanofluid past a stretching surface using a spectral relaxation method	International Journal of Ambient Energy	41	6	609	616	2020
76	Arunachalam T.; Khader S.Z.A.; Syed Zameer Ahmed S.; Vetrivel M.; Syed Ameen S.T.; Ameer Khadharu I.S.; Prabhu P.; Jayachandran P.R.; Sabu D.M.	Radical scavenging and antiproliferative effect of novel phenolic derivatives isolated from Nerium indicum against human breast cancer cell line (MCF-7)—an in silico and in vitro approach	Environmental Science and Pollution Research	27	9	9038	9057	2020
77	Nithya M.; Ponmurugan P.; Gnanamangai B.M.; Robinson J.P.; Mathivanan N.; Senthilkumar J.	Evaluation of different native Streptomyces spp. For effective management of rhizome rot of turmeric	Journal of Applied Botany and Food Quality	93		225	233	2020
78	Pushpalatha A.; Mahima R.; Kiruthik Ruba K.S.; Mohanraj E.; Rajaram P.; Ramesh S.	Optimized data routing using PSO in WSN	International Journal of Advanced Science and Technology	29	3	8298	8303	2020
79	Senthilraja S.; Gangadevi R.; Marimuthu R.; Baskaran M.	Performance evaluation of water and air based PVT solar collector for hydrogen production application	International Journal of Hydrogen Energy	45	13	7498	7507	2020

80	Chinnasamy V.; Subramani S.P.; Palaniappan S.K.; Mylsamy B.; Aruchamy K.	Characterization on thermal properties of glass fiber and kevlar fiber with modified epoxy hybrid composites	Journal of Materials Research and Technology	9	3	3158	3167	2020
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