

K.S.RANGASAMY COLLEGE OF TECHNOLOGY

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List of Scopus Indexed Journal Publications

Calendar year: **2021**

S.No	Authors	Title	Source title	Vol.	Issue	S. Page	E. Page	Year
1	N L.; A K.; Srither S.R.; M S.; S S.; M B.	Synthesis, structural and microwave absorption properties of Cr-doped zinc lanthanum nanoferrites Zn_{1-x}Cr_xLa_{0.1}Fe_{1.9}O₄ (x=0.09, 0.18, 0.27 and 0.36)	Ceramics International	47	24	34891	34898	2021
2	Bhuvaneshwari S.; Satheeskumar S.; Velayutham J.; Rahman B.S.	Hydrothermal synthesis and characterization of zno, mgo and zno/mgo nanocomposites	Rasayan Journal of Chemistry	14	3	1581	1586	2021
3	Bari J.A.; Vennila G.; Karthikeyan P.	Appraisal of hydrogeochemical processes and groundwater quality in Bhavani taluk Erode district, Tamil Nadu, India	Arabian Journal of Geosciences	14	13			2021
4	Karthikeyan K.; Karthikeyan P.; Chalishajar D.N.; Raja D.S.; Sundararajan P.	Analysis on ψ-hilfer fractional impulsive differential equations	Symmetry	13	10			2021
5	Nandakumar K.; Vinod V.; Akbar Batcha S.M.; Sharma D.K.; Elangovan M.; Poonia A.; Mudlappa Basavaraju S.; Dogiwal S.R.; Dadheech P.; Sengan S.	Securing data in transit using data-in-transit defender architecture for cloud communication	Soft Computing	25	18	12343	12356	2021
6	Sureshkumar S.; Muthukumar S.; Balasundaram K.	Nanofluid MHD combined convection in a porous chamber with various thermal sources	International Journal of Modern Physics C	32	5			2021
7	Mohanraj R.; Brindha R.; Kandeegan R.; Mahendhar M.; Saminathan K.; Ayyappadasan G.	Electrochemical detection of 5-hydroxytryptamine using sustainable SnO₂-Graphite nanocomposite modified electrode	Materials Letters	305				2021
8	Senthil T.; Rajan C.; Deepika J.	An efficient cnn model with squirrel optimizer for handwritten digit recognition	International Journal of Advanced Technology and Engineering Exploration	8	78	2394	7454	2021
9	Karthik V.; Poornima S.; Vigneshwaran A.; Raj D.P.R.D.D.; Subbaiya R.; Manikandan S.; Saravanan M.	Nanoarchitectonics is an emerging drug/gene delivery and targeting strategy -a critical review	Journal of Molecular Structure	1243				2021
10	Karthikeyan S.; Mohan K.; Arivazhagan S.	Multi objective optimization of FSW process parameters to enhance the tensile strength and hardness of AA7068 welded joints	Surface Topography: Metrology and Properties	9	4			2021

11	Saha R.; Subramani K.; Sikdar S.; Fatma K.; Rangaraj S.	Effects of processing parameters on green synthesised ZnO nanoparticles using stem extract of Swertia chirayita	Biocatalysis and Agricultural Biotechnology	33					2021
12	Vivekanandhan K.; Shanmugam P.; Barabadi H.; Arumugam V.; Daniel Raj Daniel Paul Raj D.; Sivasubramanian M.; Ramasamy S.; Anand K.; Boomi P.; Chandrasekaran B.; Arokiyaraj S.; Saravanan M.	Emerging Therapeutic Approaches to Combat COVID-19: Present Status and Future Perspectives	Frontiers in Molecular Biosciences	8					2021
13	Suganya E.; Rajan C.	An adaboost-modified classifier using particle swarm optimization and stochastic diffusion search in wireless IoT networks	Wireless Networks	27	4	2287	2299		2021
14	Mohanraj R.; Gnanamangai B.M.; Rajivgandhi G.N.; Li W.-J.; Vijayalakshmi G.; Ponmurugan P.; Alharbi N.S.; Kadaikunnan S.; Khaled J.M.; Alanzi K.F.	Monitoring the decolourisation efficacy of advanced membrane fabricated phytosilica nanoparticles in textile effluent water treatment	Chemosphere	273					2021
15	Sathishkumar P.; Mohan K.; Meena R.A.A.; Balasubramanian M.; Chitra L.; Ganesan A.R.; Palvannan T.; Brar S.K.; Gu F.L.	Hazardous impact of diclofenac on mammalian system: Mitigation strategy through green remediation approach	Journal of Hazardous Materials	419					2021
16	Manjula S.; Shanmugasundaram O.L.; Ponappa K.	Optimization of plasma process parameters for surface modification of bamboo spunlace nonwoven fabric using glow discharge oxygen plasma	Journal of Industrial Textiles	51	2	225	245		2021
17	Karthikeyan K.; Tamizharasan D.; Chalishajar D.	Analysis on controllability results for wellposedness of impulsive functional abstract second-order differential equation with state-dependent delay	Axioms	10	3				2021
18	Ramesh K.; Gnanamangai B.M.; Mohanraj R.	Investigating techno-economic feasibility of biologically pretreated textile wastewater treatment by electrochemical oxidation process towards zero sludge concept	Journal of Environmental Chemical Engineering	9	5				2021
19	Tamizharasan D.; Karthikeyan K.	Controllability results for fractional integrodifferential systems with boundary conditions	Indian Journal of Pure and Applied Mathematics	52	1	39	45		2021
20	Raj J.J.; Kavitha C.; Sakthivel K.	Stego image corruption detection and secret text recovery in steganography communication	Journal of Theoretical and Applied Information Technology	99	10	2256	2266		2021
21	Karthikeyan K.; Tamizharasan D.; Nieto J.J.; Nisar K.S.	Controllability of second-order differential equations with state-dependent delay	IMA Journal of Mathematical Control and Information	38	4	1072	1083		2021
22	Kolandaivel P.; Rajendran S.; Karnam Jayarampillai R.P.	Synthesis of novel benzo naphtho naphthyridines from 2,4-dichloroquinolines	Journal of Heterocyclic Chemistry	58	9	1809	1824		2021

23	Sudha M.; Surendhiran S.; Gowthambabu V.; Balamurugan A.; Anandarasu R.; Syed Khadar Y.A.; Vasudevan D.	Enhancement of Corrosive-Resistant Behavior of Zn and Mg Metal Plates Using Biosynthesized Nickel Oxide Nanoparticles	Journal of Bio- and Tribo-Corrosion	7	2			2021
24	Prabha K.; Satheeshkumar R.; Prasad K.J.R.	Synthesis and Cytotoxicity of Novel Indoloquinolines and Benzonaphthyridines from 4-Chloro-2,8-dimethylquinoline and Variety of Hetero Amines	ChemistrySelect	6	28	7136	7142	2021
25	Saidani Neffati O.; Sengan S.; Thangavelu K.D.; Dilip Kumar S.; Setiawan R.; Elangovan M.; Mani D.; Velayutham P.	Migrating from traditional grid to smart grid in smart cities promoted in developing country	Sustainable Energy Technologies and Assessments	45				2021
26	Nagaraj A.; Gopalakrishnan S.	A Study on Mechanical and Tribological Properties of Aluminium 1100 Alloys 6% of RHAp, BAp, CSAp, ZnOp and Egg Shellp Composites by ANN	Silicon	13	10	3367	3376	2021
27	Sridharpanday M.; Brindha R.; Vinoth M.; Narthana K.; Rajendran V.	Investigation on temperature-dependent structural, dielectric and impedance characteristics of Cu-doped CaFe_xTi_{1-x}O_{3-δ} nanotitanates	Journal of Materials Science: Materials in Electronics	32	17	22076	22092	2021
28	Gowthambabu V.; Balamurugan A.; Dhivya bharathy R.; Satheeshkumar S.; Kanmani S.S.	ZnO nanoparticles as efficient sunlight driven photocatalyst prepared by solution combustion method involved lime juice as biofuel	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	258				2021
29	Brindha R.; Kandeegan R.; Swarna Kamal K.; Manojkumar K.; Nithya V.; Saminathan K.	Andrographis paniculata absorbed ZnO nanofibers as a potential antimicrobial agent for biomedical applications	Advances in Natural Sciences: Nanoscience and Nanotechnology	12	4			2021
30	Gunasekar S.; Ramesh N.	Assessment of strength properties of concrete containing recycled concrete aggregates for green environment	Journal of Environmental Protection and Ecology	22	5	1928	1933	2021
31	Hampton J.; Tang C.; Jayasree Subhash A.; Serventi L.	Assessment of pear juice and puree as a fermentation matrix for water kefir	Journal of Food Processing and Preservation	45	3			2021
32	Natesan S.; Govindaswamy V.; Mani S.; Sekar S.	Groundwater quality assessment using GIS technology in Kadavanan Watershed, Cauvery River, Tamil Nadu, India	Arabian Journal of Geosciences	14	3			2021
33	Deepika J.; Rajan C.; Senthil T.	Security and Privacy of Cloud- And IoT-Based Medical Image Diagnosis Using Fuzzy Convolutional Neural Network	Computational Intelligence and Neuroscience	2021				2021
34	Serventi L.; He Q.; Huang J.; Mani A.; Subhash A.J.	Advances in the preparations and applications of nanochitins	Food Hydrocolloids for Health	1				2021
35	Jawahar M.; Sabari A.; Monika S.	Identity authentication-based load balancing with Merkle hash tree for secured cloud data storage	International Journal of Business Innovation and Research	25	3	408	430	2021
36	Raja K.; Senthilkumar P.; Nallakumarasamy G.; Natarajan T.	Effect of Eco-Friendly Chemical Treatment on the Properties of Sesbania Rostrata Fiber	Journal of Natural Fibers	18	12	2241	2253	2021

37	Kubera Sampath Kumar S.; Prakash C.; Ramesh P.; Sukumar N.; Balaji J.; Palaniswamy N.K.	Study of Wound Dressing Material Coated with Natural Extracts of Calotropis Gigantea, Eucalyptus Globulus and Buds of Syzygium Aromaticum Solution Enhanced with rhEGF (REGEN-DTM 60)	Journal of Natural Fibers	18	12	2270	2283	2021
38	M U.; S G.	Characterization of Bio-fiber from Pongamiapinnata L. Bark as Possible Reinforcement of Polymer Composites	Journal of Natural Fibers	18	6	823	833	2021
39	Velumani M.; Kumar K.N.	Effect of copper slag on mechanical and durability aspects for different strength concretes: [Wpływ żużła miedziowego na właściwości mechaniczne i wytrzymałość różnych betonów]	Cement, Wapno, Beton	2021	2	156	166	2021
40	Kavitha V.; Grayna J.; George S.; Senthilvadiu K.	Stepanov-like almost automorphic solution to second order fractional impulsive Fredholm-Volterra integro differential equation	Nonlinear Studies	28	3	879	890	2021
41	Saravanakumar S.; Gopalakrishnan S.; Kalaiselvan K.	Development of empirical relationships for prediction of mechanical and wear behavior of copper matrix surface composite by friction stir processing technique	Archives of Metallurgy and Materials	66	2	617	626	2021
42	Umashankaran M.; Gopalakrishnan S.	Effect of Sodium Hydroxide Treatment on Physico-chemical, Thermal, Tensile and Surface Morphological Properties of Pongamia Pinnata L. Bark Fiber	Journal of Natural Fibers	18	12	2063	2076	2021
43	Udaya Krithika S.M.; Sampath M.B.; Rajwin A.J.; Prakash C.; Senthil Kumar M.; Senthil Kumar P.	Moisture management properties of bi-layer knitted fabrics	Fibres and Textiles in Eastern Europe	29	2	81	86	2021
44	Surendar A.; Geetha K.; Rajan C.; Alaazim M.	Role of Ag microalloying on glass forming ability and crystallization kinetics of ZrCoAgAlNi amorphous alloy	Chinese Physics B	30	1			2021
45	Kavitha V.; George S.; Grayna J.; Senthilvadiu K.	A study on asymptotically almost automorphic solution of impulsive Volterra integro-differential equation	Nonlinear Studies	28	3	709	715	2021
46	Ramalingam M.; Ramasamy V.; Palanisamy S.; Subramaniam M.; Muthusamy K.	Experimental investigation on performance, combustion, and emission characteristics of diesel doped with green synthesized nano cerium oxide	Environmental Progress and Sustainable Energy	40	2			2021
47	Karpagam M.; Geetha K.; Rajan C.	A reactive search optimization algorithm for scientific workflow scheduling using clustering techniques	Journal of Ambient Intelligence and Humanized Computing	12	2	3199	3207	2021
48	Prakash C.; Sukumar N.; Ramesh P.; Kubera Sampath Kumar S.	Development and Characterization of Wound Dressing Material Coated with Natural Extracts of Curcumin, Aloe vera and Chitosan Solution Enhanced with rhEGF (REGEN-DTM)	Journal of Natural Fibers	18	12	2019	2032	2021

49	Venkatachalam S.; Mani I.; Loganathan A.	Heterogeneous wireless network selection by combining GRA and VIKOR under a fuzzy environment	International Journal of Computer Aided Engineering and Technology	14	2	233	254	2021
50	Kubera Sampath Kumar S.; Prakash C.; Ramesh P.; Sukumar N.; Palaniswamy N.K.	Study of Wound Dressing Material Coated With Natural Extracts of Leaf Solution Enhanced With Recombinant Human Epidermal Growth Factor (REGEN-DTM 150)	Journal of Natural Fibers	18	12	2302	2314	2021
51	Dhineshababu N.R.; Vettumperumal R.; Kokila R.	A study of linear optical properties of ternary blends PVA/CMC/aloe vera biofilm for UV shielding	Applied Nanoscience (Switzerland)	11	2	669	678	2021
52	Yuvaraj K.; Ramesh S.	Experimental investigation on strength properties of concrete incorporating ground pond ash: [Badania doświadczalne wytrzymałości betonu zawierającego zmielony popiół z osadnika]	Cement, Wapno, Beton	2021	3	253	262	2021
53	Senthil T.; Rajan C.; Deepika J.	An improved optimization technique using Deep Neural Networks for digit recognition	Soft Computing	25	2	1647	1658	2021
54	Palanisamy S.; Rajendhran N.; Srinivasan S.; Shyma A.P.; Murugan V.; Parasuraman B.; Kheawhom S.	A novel nano-YSZ-Al alloy anode for Al-air battery	Journal of Applied Electrochemistry	51	2	345	356	2021
55	Karthikeyan K.; Raja D.S.; Sundararajan P.	A study of solutions of abstract fractional integro differential equations	Nonlinear Studies	28	2	575	583	2021
56	Arya S.; Subramani T.; Vennila G.; Karunanidhi D.	Health risks associated with fluoride intake from rural drinking water supply and inverse mass balance modeling to decipher hydrogeochemical processes in Vattamalaikarai River basin, South India	Environmental Geochemistry and Health	43	2	705	716	2021
57	Palaniappan S.M.; Govindasamy V.; Jabar A.B.	Experimental investigation on flexural performance of functionally graded concrete beams using flyash and red mud: [Investigação experimental sobre o desempenho flexural de vigas de concreto funcionalmente classificadas usando flyash e lama vermelha]	Revista Materia	26	1			2021
58	Natesan K.; Ponnurugan P.; Gnanamangai B.M.; Manigandan V.; Joy S.P.J.; Jayakumar C.; Amsaveni G.	Biosynthesis of silica and copper nanoparticles from Trichoderma, Streptomyces and Pseudomonas spp. evaluated against collar canker and red root-rot disease of tea plants	Archives of Phytopathology and Plant Protection	54	2-Jan	56	85	2021
59	Sureshkumar S.; Muthukumar S.; Doh D.H.; Prem E.	Effects of magnetic field inclination on tilted square cavity filled with a nanofluid saturated porous medium	International Journal of Ambient Energy	42	4	403	415	2021
60	Bhuvaneshwaran M.; Subramani S.P.; Palaniappan S.K.; Pal S.K.; Balu S.	Natural Cellulosic Fiber from Coccinia Indica Stem for Polymer Composites: Extraction and Characterization	Journal of Natural Fibers	18	5	644	652	2021