



**Office of Academic Research**

**Table–IV**

**Journal publications of VIT from 1.3.2022 to 31.3.2022**

S. No.	School/ Centre	Author (s)	Title	Journal	TR Impact Factor
1.	SMEC	Liao J., Ye C., Guo J., Garciamendez-Mijares C.E., Agrawal P., Kuang X., Japo J.O., Wang Z., Mu X., Li W., Ching T., Mille L.S., Zhu C., Zhang X., Gu Z., Zhang Y.S.	3D-printable colloidal photonic crystals	Materials Today	31.041
2.	SELECT	Vamsi Krishna Reddy A.K., Venkata Lakshmi Narayana K.	Meta-heuristics optimization in electric vehicles -an extensive review	Renewable and Sustainable Energy Reviews	14.982
3.	SBST	Das D., R A., Kay P., Ramamurthy V., Goycoolea F.M., Das N.	Selective recovery of lithium from spent coin cell cathode leachates using ion imprinted blended chitosan microfibers: Pilot scale studies provide insights on scalability	Journal of Hazardous Materials	10.588
4.	SCOPE	Yang K., Shi Y., Yu Z., Yang Q., Sangaiah A.K., Zeng H.	Stacked One-Class Broad Learning System for Intrusion Detection in Industry 4.0	IEEE Transactions on Industrial Informatics	10.215
5.	SCOPE	Deebak B.D., Memon F.H., Dev K., Khowaja S.A., Wang W., Qureshi N.M.F.	TAB-SAPP: A Trust-Aware Blockchain-Based Seamless Authentication for Massive IoT-Enabled Industrial Applications	IEEE Transactions on Industrial Informatics	10.215
6.	SMEC	Zhang A.-M., Lenin P., Zeng R.-C., Kannan M.B.	Advances in hydroxyapatite coatings on biodegradable magnesium and its alloys	Journal of Magnesium and Alloys	10.088
7.	SITE	Maddikunta P.K.R., Pham Q.-V., B P., Deepa N., Dev K., Gadekallu T.R., Ruby R., Liyanage M.	Industry 5.0: A survey on enabling technologies and potential applications	Journal of Industrial Information Integration	10.063
8.	SCOPE	Deebak B.D., Memon F.H., Khowaja S.A., Dev K., Wang W., Qureshi N.M.F., Su C.	Lightweight Blockchain Based Remote Mutual Authentication for AI-Empowered IoT Sustainable Computing Systems	IEEE Internet of Things Journal	9.471
9.	SAS	Thomas A., Mishra U.	A sustainable circular economic supply chain system with waste minimization using 3D printing and emissions reduction in plastic reforming industry	Journal of Cleaner Production	9.297
10.	SBST	Jo S., Samarpita S., Lee J.S., Lee Y.J., Son J.E., Jeong M., Kim	8-Shogaol inhibits rheumatoid arthritis through targeting TAK1	Pharmacological Research	7.658

		J.H., Hong S., Yoo S.-A., Kim W.-U., Rasool M., Byun S.			
11.	SENSE	R S., Thaseen I.S., M V., M D., M A., R M., Mahendran A., Alnumay W., Chatterjee P.	An efficient hardware architecture based on an ensemble of deep learning models for COVID -19 prediction	Sustainable Cities and Society	7.587
12.	SCOPE	Deebak B.D., Memon F.H., Cheng X., Dev K., Hu J., Khowaja S.A., Qureshi N.M.F., Choi K.H.	Seamless privacy-preservation and authentication framework for IoT-enabled smart eHealth systems	Sustainable Cities and Society	7.587
13.	SMEC	Jacob A., Ashok B., Usman K.M., Kulla D.M.	Influence of post-injection parameters on the performance of continuous regeneration trap to mitigate greenhouse gas and particulate emissions from CI engine	Energy	7.147
14.	CNR	Rani B., Nayak A.K., Sahu N.K.	Degradation of mixed cationic dye pollutant by metal free melem derivatives and graphitic carbon nitride	Chemosphere	7.086
15.	SAS	Jalalah M., Rudra S., Aljafari B., Irfan M., Almasabi S.S., Alsuwian T., Khazi M.I., Nayak A.K., Harraz F.A.	Sustainable synthesis of heteroatom-doped porous carbon skeleton from Acacia auriculiformis bark for high-performance symmetric supercapacitor device	Electrochimica Acta	6.901
16.	SMEC	Muni M.K., Parhi D.R., Kumar P.B., Sahu C., Kumar S.	Towards motion planning of humanoids using a fuzzy embedded neural network approach	Applied Soft Computing	6.725
17.	SMEC	Vignesh R., Ashok B.	Enhancement of biofuel engine characteristics through cyclic variation and multi-variate effect of split injection parameters	Fuel	6.609
18.	SMEC	Ramalingam S., Babu D., Santhoshkumar A., Deepakkumar R., Ravikanth D.	Impact of exhaust gas recirculation and split injection strategy combustion behavior on premixed charge compression ignition engine fuelled with moringa oleifera methyl ester	Fuel	6.609
19.	SMEC	Ganesan N., Viswanathan K., Karthic S.V., Ekambaram P., Wu W., Vo D.-V.N.	Split injection strategies based RCCI combustion analysis with waste cooking oil biofuel and methanol in an open ECU assisted CRDI engine	Fuel	6.609
20.	SAS	Elanchezian M., Ganesan S., Theyagarajan K., Duraisamy M., Thenmozhi K., Weng C.-H., Lin Y.-T., Ponnusamy V.K.	Novel biomass-derived porous-graphitic carbon coated iron oxide nanocomposite as an efficient electrocatalyst for the sensitive detection of rutin (vitamin P) in food and environmental samples	Environmental Research	6.498
21.	SBST	Rajagopal M., Senthilnathan R., Shetty S., Devi A.,	Conceptual interpretation and clinical applicability of a systematic review and meta-analysis about prognostic	Travel Medicine and Infectious Disease	6.211

		Ravishankar Ram M., Samiappan S., Jayaraj R.	value of apolipoproteins in COVID-19 patients		
22.	SMEC	Jacob A., Ashok B., Usman K.M.	Production of Chlorella pyrenoidosa biodiesel by heterotrophic pathway to improve CI engine output characteristics using statistical approaches	Process Safety and Environmental Protection	6.158
23.	CNR	Chadha U., Bhardwaj P., Agarwal R., Rawat P., Agarwal R., Gupta I., Panjwani M., Singh S., Ahuja C., Selvaraj S.K., Banavoth M., Sonar P., Badoni B., Chakravorty A.	Recent progress and growth in biosensors technology: A critical review	Journal of Industrial and Engineering Chemistry	6.064
24.	CNR	Maldonado-Lopez D., Rodriguez J.R., Pol V.G., Syamsai R., Andrews N.G., Gutiérrez-Ojeda S.J., Ponce-Pérez R., Moreno-Armenta M.G., Guerrero-Sánchez J.	Atomic-Scale Understanding of Li Storage Processes in the Ti <sub>4</sub> C <sub>3</sub> and Chemically Ordered Ti <sub>2</sub> Ta <sub>2</sub> C <sub>3</sub> MXenes: A Theoretical and Experimental Assessment	ACS Applied Energy Materials	6.024
25.	SAS	Kavitha K., Vijayakumar V.	A discussion concerning to partial-approximate controllability of Hilfer fractional system with nonlocal conditions via approximating method	Chaos, Solitons and Fractals	5.944
26.	SBST	Varghese P.M., Kishore U., Rajkumari R.	Human C1q Regulates Influenza A Virus Infection and Inflammatory Response via Its Globular Domain	International Journal of Molecular Sciences	5.923
27.	GENERAL	Wang R., Lai J., Zhang Z., Li X., Vijayakumar P., Karuppiiah M.	Privacy-Preserving Federated Learning for Internet of Medical Things under Edge Computing	IEEE Journal of Biomedical and Health Informatics	5.772
28.	VAIAL	Elango D., Rajendran K., Van der Laan L., Sebastiar S., Raigne J., Thaiparambil N.A., El Haddad N., Raja B., Wang W., Ferela A., Chiteri K.O., Thudi M., Varshney R.K., Chopra S., Singh A., Singh A.K.	Raffinose Family Oligosaccharides: Friend or Foe for Human and Plant Health?	Frontiers in Plant Science	5.753
29.	SAS	Hemalatha R., Kameswaran P.K., Murthy P.V.S.N.	Effect of nanoparticle shape on the mixed convective transport over a vertical cylinder in a non-Darcy porous medium	International Communications in Heat and Mass Transfer	5.683
30.	SELECT	Laarabi B., Sankarkumar S., Rajasekar N., El Baqqaal Y., Barhdadi A.	Modeling investigation of soiling effect on solar photovoltaic systems: New findings	Sustainable Energy Technologies and Assessments	5.353
31.	VFIT, CC	Ganesh Kumar R., Rajan T.P.	A Review on Electrospinning of Natural Bio Herbs Blended with Polyvinyl Alcohol Nanofibres for	Journal of Natural Fibers	5.323

			Biomedical Applications		
32.	CNR	Manohar A., Vijayakanth V., Vattikuti S.V.P., Manivasagan P., Jang E.-S., Kim K.H.	Electrochemical, oxygen evolution reaction and photoelectrochemical water splitting activity of Ca-doped MgFe <sub>2</sub> O <sub>4</sub> nanoparticles	Journal of Alloys and Compounds	5.316
33.	SAS, CC	Menon P.S., Thomas S.A., Anjana M.P., Beryl C., Sajjan D., Vinitha G., Philip R.	The role of defects in the nonlinear optical absorption behavior of pristine and Co-doped V <sub>2</sub> O <sub>5</sub> layered 2D nanostructures	Journal of Alloys and Compounds	5.316
34.	SAS	Kumar Roy T., Sreedharan R., Ghosh P., Gandhi T., Maiti D.	Ene-Reductase: A Multifaceted Biocatalyst in Organic Synthesis	Chemistry - A European Journal	5.236
35.	SMEC	Ashwath P., Xavier M.A., Batako A., Jeyapandiarajan P., Joel J.	Selective laser melting of Al–Si–10Mg alloy: microstructural studies and mechanical properties assessment	Journal of Materials Research and Technology	5.039
36.	SMEC	Vimal K.E.K., Churi K., Kandasamy J.	Analysing the drivers for adoption of Industry 4.0 technologies in a functional paper – cement – sugar circular sharing network	Sustainable Production and Consumption	5.032
37.	SCHEME	Joaquin A.A., Sivamani S., Gnanasundaram N.	Statistical experimental design and analysis of mixed natural-synthetic coagulants for the reduction of total suspended solids and turbidity in sewage wastewater treatment	Biomass Conversion and Biorefinery	4.987
38.	SAS	Prabu S., Palanisami N.	Aggregation induced emission (AIE)-active ferrocene conjugated linear $\pi$ -extended multi donor- $\pi$ -acceptor (D-D'- $\pi$ -A) chromophores: Synthesis, structural, theoretical, linear and nonlinear optical studies	Dyes and Pigments	4.889
39.	SAS	Bhardwaj V., Ashok Kumar S.K., Sahoo S.K.	Fluorescent sensing (Cu <sup>2+</sup> and pH) and visualization of latent fingerprints using an AIE-active naphthaldehyde-pyridoxal conjugated Schiff base	Microchemical Journal	4.821
40.	SAS, CC	Hussain S.S., Durga N., Hossein R., Ganesh G., Oscar C.	New Concepts on Quadripartitioned Single-Valued Neutrosophic Graph with Real-Life Application	International Journal of Fuzzy Systems	4.673
41.	SENSE	S C., T S., A R.	Investigation on nanocore-centred nonlinear PCF for high nonlinearity and low dispersion	Ceramics International	4.527
42.	SBST	Sundar V., Ramasamy T., Doke M., Samikkannu T.	Psychostimulants influence oxidative stress and redox signatures: the role of DNA methylation	Redox Report	4.412
43.	SBST	Ramesh P., Veerappapillai S.	Designing Novel Compounds for the Treatment and Management of RET-Positive Non-Small Cell Lung Cancer—Fragment Based Drug Design Strategy	Molecules	4.411
44.	CNR	Chadha U., Bhardwaj P., Padmanaban S., Suneel R.M., Milton K., Subair N., Pandey A.,	Review - Contemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries	Journal of the Electrochemical Society	4.316

		Khanna M., Srivastava D., Mathew R.M., Selvaraj S.K., Banavoth M., Sonar P., Badoni B., Rao N.S., Kumar S.G., Ray A.K., Kumar A.			
45.	CIPD, CC	Varsha M.V., Nageswaran G., Jothi L., Ravi Sankar A.	Review - Recent Advances in Metal Organic Framework Derived Carbon Materials for Electrocatalytic Applications	Journal of the Electrochemical Society	4.316
46.	SCOPE	Kusuma S., Jothi K.R.	ECG signals-based automated diagnosis of congestive heart failure using Deep CNN and LSTM architecture	Biocybernetics and Biomedical Engineering	4.314
47.	SMEC	Ganesan N., Sahoo B.B., Ekambaram P., Elumalai P.V., Samuel O.D., Enweremadu C.C., Afzal A., Saleel C.A.	Experimental based comparative exergy analysis of a spark-ignition Honda GX270 Genset engine fueled with LPG and syngas	Energy Science and Engineering	4.170
48.	SAS	Devi Priya D., Athira C.C., Mohana Roopan S.	Surface area-enhanced flower-shaped hair protein-supported palladium nanoparticles as sono-photocatalyst towards carbon-carbon bond forming reaction	Applied Organometallic Chemistry	4.105
49.	SBST	Shaw P., Senthilnathan R., Sankar S., Ilangovan I., Muthukaliannan G.K., Baxi S., Mani R.R., Rajagopal M., Chinnappan S., Balaraman A.K., Suresh D., Krishnan S., Gupta M., Muthusamy T., Paranjothy C., Jayaraj R.	A Clinical Investigation on the Theragnostic Effect of MicroRNA Biomarkers for Survival Outcome in Cervical Cancer: A PRISMA-P Compliant Protocol for Systematic Review and Comprehensive Meta-Analysis	Genes	4.096
50.	VAIAL	Wagh M.S., Osborne W.J., Sivarajan S.	Bacillus xiamenensis and earthworm Eisenia fetida in bio removal of lead, nickel and cadmium: A combined bioremediation approach	Applied Soil Ecology	4.046
51.	CNR	Viveka S.S., Logu T., Ahsan N., Asokan K., Kalainathan S., Sethuraman K., Okada Y.	Study of sub-band states formation in the optical band gap of CuGaS <sub>2</sub> thin films by electronic excitations	Journal of Physics and Chemistry of Solids	3.995
52.	SMEC, CC	Rajesh K., Ghosh S., Islam A., Rangaswamy M.K., Halder S., Roy P., Keshri A.K., Lahiri D.	Multilayered porous hydroxyapatite coating on Ti6Al4V implant with enhanced drug delivery and antimicrobial properties	Journal of Drug Delivery Science and Technology	3.981
53.	SAS	Nwokoye C.H., Madhusudan V., Srinivas M.N.,	Modeling time delay, external noise and multiple malware infections in wireless sensor networks	Egyptian Informatics Journal	3.943



		Mbeledogu N.N.			
54.	SITE	Song J., Wang W., Gadekallu T.R., Cao J., Liu Y.	EPPDA: An Efficient Privacy-Preserving Data Aggregation Federated Learning Scheme	IEEE Transactions on Network Science and Engineering	3.894
55.	SITE	Gadekallu T.R., Srivastava G., Liyanage M., M. I., Chowdhary C.L., Koppu S., Maddikunta P.K.R.	Hand gesture recognition based on a Harris Hawks optimized Convolution Neural Network	Computers and Electrical Engineering	3.818
56.	SITE	Rizwan M., Shabbir A., Javed A.R., Srivastava G., Gadekallu T.R., Shabir M., Hassan M.A.	Risk monitoring strategy for confidentiality of healthcare information	Computers and Electrical Engineering	3.818
57.	SCOPE, CC	Nishath S., Darisini P.S.N.	An Adaptive Classifier Based Approach for Crowd Anomaly Detection	Computers, Materials and Continua	3.772
58.	SCOPE, CC	Karthik S., Bhadoria R.S., Lee J.G., Sivaraman A.K., Samanta S., Balasundaram A., Chaurasia B.K., Ashokkumar S.	Prognostic Kalman Filter Based Bayesian Learning Model for Data Accuracy Prediction	Computers, Materials and Continua	3.772
59.	SAS	Ubba E., Nawaz Khan F.-R., Teja C., Dalavai R.	One Pot Sequential Aldol condensation - Michael Addition–Sonogashira, and Heck Arylation toward Highly Functionalized Quinolines	Polycyclic Aromatic Compounds	3.744
60.	SELECT	Kanhirakadavath M.R., Chandran M.S.M.	Investigation of Eye-Tracking Scan Path as a Biomarker for Autism Screening Using Machine Learning Algorithms	Diagnostics	3.706
61.	SCOPE	Goyal B., Dogra A., Sangaiah A.K.	An effective nonlocal means image denoising framework based on non-subsampled shearlet transform	Soft Computing	3.643
62.	SITE	Rajeswari M., Julie E.G., Robinson Y.H., Joseph E., Arun A.S., Sebastian E., Kumar R., Long H.V., Son L.H.	Detection of tyre defects using weighted quality-based convolutional neural network	Soft Computing	3.643
63.	SITE	Narayanan K.L., Krishnan R.S., Robinson Y.H., Julie E.G., Vimal S., Saravanan V., Kaliappan M.	Banana Plant Disease Classification Using Hybrid Convolutional Neural Network	Computational Intelligence and Neuroscience	3.633
64.	SELECT	Mathew A.A., Vivekanandan S.	Design and Simulation of Single-Electrode Mode Triboelectric Nanogenerator-Based Pulse Sensor for Healthcare Applications Using COMSOL Multiphysics	Energy Technology	3.631

65.	SCOPE	Gupta C., Johri I., Srinivasan K., Hu Y.-C., Qaisar S.M., Huang K.-Y.	A Systematic Review on Machine Learning and Deep Learning Models for Electronic Information Security in Mobile Networks	Sensors	3.576
66.	SITE	Majid M., Habib S., Javed A.R., Rizwan M., Srivastava G., Gadekallu T.R., Lin J.C.-W.	Applications of Wireless Sensor Networks and Internet of Things Frameworks in the Industry Revolution 4.0: A Systematic Literature Review	Sensors	3.576
67.	SCOPE	Mohan P.V., Dixit S., Gyaneshwar A., Chadha U., Srinivasan K., Seo J.T.	Leveraging Computational Intelligence Techniques for Defensive Deception: A Review, Recent Advances, Open Problems and Future Directions	Sensors	3.576
68.	SITE	Roy A.K., Nath K., Srivastava G., Gadekallu T.R., Lin J.C.-W.	Privacy Preserving Multi-Party Key Exchange Protocol for Wireless Mesh Networks	Sensors	3.576
69.	SAS	Upadhyay P.P., Mishra M.K., Ramamurty U., Bond A.D.	Mechanical anisotropy and tabletability of famotidine polymorphs	CrystEngComm	3.545
70.	SMEC	Vineeth V.K., Patel D.K.	Influence of aspect ratio on the wake dynamics of a pitching wing	Physics of Fluids	3.521
71.	SMEC	Nandhakumar E., Selvakumar P., Sasikumar A., Prem kumar M., Vivek E., Kamatchi R.	Facile eco-friendly synthesis of rare-earth cobaltite-based perovskite nanostructures as electrocatalysts for oxygen evolution reaction	Materials Letters	3.423
72.	SCE	Manojkumar N., Srimuruganandam B.	Spatio-temporal health benefits attributable to PM2.5 reduction in an Indian city	International Journal of Environmental Health Research	3.411
73.	SENSE	Prasanth A., Meher S.R., Alex Z.C.	Metal oxide thin films coated evanescent wave based fiber optic VOC sensor	Sensors and Actuators A: Physical	3.407
74.	CBCMT	Vishnu J., Manivasagam G., Rao N., Rack H.J.	Fatigue and corrosion resistance of low modulus Ti-35Nb-7Zr-5Ta-0.35O beta Ti alloy for orthopedic implant applications	Materials Today Communications	3.383
75.	SMEC	Dara A., Bahubalendruni M.A.R., Johnney Mertens A., Balamurali G.	Numerical and experimental investigations of novel nature inspired open lattice cellular structures for enhanced stiffness and specific energy absorption	Materials Today Communications	3.383
76.	SITE	Duan Y., Chen N., Chang L., Ni Y., Santhosh Kumar S.V.N., Zhang P.	CAPSO: Chaos Adaptive Particle Swarm Optimization Algorithm	IEEE Access	3.367
77.	SCOPE	Raja S.P., Sawicka B., Stamenkovic Z., Mariammal G.	Crop Prediction Based on Characteristics of the Agricultural Environment Using Various Feature Selection Techniques and Classifiers	IEEE Access	3.367
78.	SENSE	Babu A.N., Vishnu J., Nandakumar S., Velmurugan T.	Resource allocation and optimization in D2D communication with PDRAPC framework	Peer-to-Peer Networking and Applications	3.307

79.	SITE	Saleem K., Saleem M., Zeeshan R., Javed A.R., Alazab M., Gadekallu T.R., Suleman A.	Situation-aware BDI Reasoning to Detect Early Symptoms of Covid 19 using Smartwatch	IEEE Sensors Journal	3.301
80.	SMEC	Cuce E., Cuce P.M., Saboor S., Ghosh A., Sheikhnejad Y.	Floating PVs in Terms of Power Generation, Environmental Aspects, Market Potential, and Challenges	Sustainability (Switzerland)	3.251
81.	CNBT	Das S., Thiagarajan V., Chandrasekaran N., Ravindran B., Mukherjee A.	Nanoplastics enhance the toxic effects of titanium dioxide nanoparticle in freshwater algae Scenedesmus obliquus	Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology	3.228
82.	SAS	Pandimeena G., Mathavan T., Samuel E.J.J., Benial A.M.F.	Conformational, spectroscopic, electronic and Molecular docking Studies on 2-methoxy-4-methyl-5-nitropyridine: A potential bioactive agent	Journal of Molecular Structure	3.196
83.	SAS	Rahul M.P., Clement J., Singh Junias J., Arockiaraj M., Balasubramanian K.	Degree-based entropies of graphene, graphyne and graphdiyne using Shannon's approach	Journal of Molecular Structure	3.196
84.	SAS, CC	John N.L., Abraham S., George J., Karuppasamy P., Senthilpandian M., Ramasamy P., Vinitha G.	Synthesis, structure, NBO, Hirshfeld surface, NMR, HOMO-LUMO, UV, photoluminescence, z scan, vibrational and thermal analysis of piperazinedi-ium tetrakis ( $\mu^2$ -chloro)-diaqua-dichloro-di-cadmium single crystal	Journal of Molecular Structure	3.196
85.	SCHEME	Dhayananth N., Karthika S., Kalaichelvi P., Radhakrishnan T.K.	Correlation of solubility data and solution properties of chlorzoxazone in pure solvents	Journal of Chemical Thermodynamics	3.178
86.	SMEC	Gunasegeran M., Sudhagar P. E.	Experimental and numerical study of transverse shear modulus for bioinspired glass fiber-reinforced polymer sandwich core	Polymer Composites	3.171
87.	SMEC	Kesavulu A., Mohanty A.	Investigation of physical, flexural, and dynamic mechanical properties of alumina and graphene nanoplatelets filled epoxy nanocomposites	Polymer Composites	3.171
88.	SITE	Gadamsetty S., Ch R., Ch A., Iwendi C., Gadekallu T.R.	Hash-Based Deep Learning Approach for Remote Sensing Satellite Imagery Detection	Water (Switzerland)	3.103
89.	SMEC, CC	S A., V S.	Prediction of air compressor condition using vibration signals and machine learning algorithms	JVC/Journal of Vibration and Control	3.095
90.	SMEC	Kshatriya A.S., Tiwari P., Sreekanth M., Yunus Khan T.M., Khadar S.D.A., Mansour M., Feroskhan M.	Investigations into the Combined Effect of Mahua Biodiesel Blends and Biogas in a Dual Fuel Engine	Energies	3.004
91.	SAS	Nandhini G., Shobana M.K.	Role of ferrite nanoparticles in hyperthermia applications	Journal of Magnetism and Magnetic Materials	2.993



92.	CFM	Jadhav P.S., Joshi G.M., Humbe S.S., Dubey R.S., Kaleemulla S.	Study of the preparation and properties of polyvinyl chloride/nitrocellulose polymer blends	Polymer International	2.990
93.	SMEC	Balan G.S., Balasundaram R., Chellamuthu K., Gopan S.N., Dinesh S., Vijayan V., Sathish T., Rajkumar S.	Flame Resistance Characteristics of Woven Jute Fiber Reinforced Fly Ash Filled Polymer Composite	Journal of Nanomaterials	2.986
94.	CFM	S N.S., Madhuri W.	Structural, morphological, dielectric and tensile properties of BaTiO <sub>3</sub> -doped PVA/PVP polymer blend nanocomposites	Polymer Bulletin	2.870
95.	SCHEME	Zafar M., Aggarwal A., Rene E.R., Barbusiński K., Mahanty B., Behera S.K.	Data-Driven Machine Learning Intelligent Tools for Predicting Chromium Removal in an Adsorption System	Processes	2.847
96.	SAS, CC	Priya S., Ilaiyaraja P., Priyadarshini N.	Fibrous TiO <sub>2</sub> exhibiting efficient U(VI) adsorption from aqueous solution	International Journal of Environmental Analytical Chemistry	2.826
97.	SITE	Manikandan V.P., Rahamathunnisa U.	A neural network aided attuned scheme for gun detection in video surveillance images	Image and Vision Computing	2.818
98.	SENSE	Arthi G., Thanikaiselvan V., Amirtharajan R.	4D Hyperchaotic map and DNA encoding combined image encryption for secure communication	Multimedia Tools and Applications	2.757
99.	SCOPE	K L., Karnick S., Ghalib M.R., Shankar A., Khapre S., Tayubi I.A.	A novel method for vehicle detection in high-resolution aerial remote sensing images using YOLT approach	Multimedia Tools and Applications	2.757
100.	SENSE, CC	Srivastava A., Raghu S., Thyagarajan A.K., Vaidyaraman J., Kothandaraman M., Sudheendra P., Goel A.	Alpha matting for portraits using encoder-decoder models	Multimedia Tools and Applications	2.757
101.	SENSE	Mohapatra A., Thota N., Prakasam P.	Fake news detection and classification using hybrid BiLSTM and self-attention model	Multimedia Tools and Applications	2.757
102.	GENERAL	Mishra N.K., Singh A., Singh P.K.	Multi-label personality trait identification from text	Multimedia Tools and Applications	2.757
103.	GENERAL	Sridevi A., Sivaraman R., Balasubramaniam V., Sreenithi, Siva J., Thanikaiselvan V., Rengarajan A.	On Chaos based duo confusion duo diffusion for colour images	Multimedia Tools and Applications	2.757
104.	GENERAL	Kalburgi S.S., Manimozhi M.	Taylor-spotted hyena optimization algorithm for reliable and energy-efficient cluster head selection based secure data routing and failure tolerance in WSN	Multimedia Tools and Applications	2.757

105.	eVIT-RC, CC	Varikkottil S., Lionel F.D.J., Srinivasan M.K., Williamson S., Kannan R., Izhar L.I.	Role of Power Converters in Inductive Power Transfer System for Public Transport—A Comprehensive Review	Symmetry	2.713
106.	SMEC	Gumber S., Ghosh S.	Quick Predictions of Onset Times and Rain Amounts from Monsoon Showers over Urban Built Environments	Atmosphere	2.686
107.	SCOPE	Radhakrishnan N., Muniyandi A.P.	Dependable and Provable Secure Two-Factor Mutual Authentication Scheme Using ECC for IoT-Based Telecare Medical Information System	Journal of Healthcare Engineering	2.682
108.	SENSE	Kavitha K.V.N., Ashok S., Imoize A.L., Ojo S., Selvan K.S., Ahanger T.A., Alhassan M.	On the Use of Wavelet Domain and Machine Learning for the Analysis of Epileptic Seizure Detection from EEG Signals	Journal of Healthcare Engineering	2.682
109.	SENSE	Ramkumar K., Ramakrishnan V.N.	Performance Analysis of Germanium-Silicon Vertical Tunnel Field-Effect Transistors (Ge-Si-VTFETs) for Analog/RF Applications	Silicon	2.670
110.	SENSE, CC	Jesuwanth Sugesh R.G., Sivasubramanian A., Balaji V.R.	Step PN Junction-Based Silicon Microring Modulator for High-Speed Application	Silicon	2.670
111.	SMEC	Babu Rao K., Mallikarjuna Reddy D.	Crack detection methodology in rotor bearing system by DWT based adaptive neuro-fuzzy inference systems	Applied Acoustics	2.639
112.	SCOPE	Raja Guru R., Vimala Devi K., Marichamy P.	Spectrum selection and decision using neural and fuzzy optimization approaches	Wireless Networks	2.602
113.	SENSE	Prakash A.J., Prakasam P.	An intelligent fruits classification in precision agriculture using bilinear pooling convolutional neural networks	Visual Computer	2.601
114.	SENSE, CC	Mahalaxmi U.S.B.K., Sahay K.B., Sabitha R., Haleem S.L.A., Kaur P., Vijayakumar P.	Using electroencephalogram classification in a convolutional neural network, infer privacy on healthcare internet of things 5.0	Expert Systems	2.587
115.	SELECT, CC	Seshadri A., Lenin N.C., Padmanaban S., Khan B.	Impact of stator slot geometry on the windage loss in a high-speed linear switched reluctance motor	IET Electric Power Applications	2.568
116.	GENERAL	Ashwath P., Xavior M.A., Rajendran R., Batako A.D.L., Jeyapandiarajan P., Joel J.	Microwave-assisted T6 heat treating of aluminium alloy-Al <sub>2</sub> O <sub>3</sub> nanocomposites	MRS Communications	2.566
117.	SAS	Tamizhselvi R., Arumugam Napoleon A.	A simple sulfonohydrazide Schiff base molecular probe for colorimetrically selective recognition of Cu <sup>2+</sup> ion in Semi-Aqueous medium	Inorganic Chemistry Communications	2.495
118.	SAS, CC	Prathebha K., Raju K., Hegde T.A., Vinitha G.	Computation and experimental results on spectroscopic and physicochemical properties of efficient piperidine driven passive optical limiting material	Physica Scripta	2.487

119.	SAS, CC	Saraswathi V., Agilan S., Muthukumarasamy N., Uthayakumar M., Velauthapillai D., Vinitha G.	Synthesis, spectral characterisation, third-order nonlinear optical properties and quantum chemical studies on (E)-4-bromo-N'-(2,4-dimethoxybenzylidene)benzohydrazide crystal for optoelectronics applications	Journal of Materials Science: Materials in Electronics	2.478
120.	SCHEME	Ganesa Pillai M., Goyal S., Zawar A., Kumar M.S.A., Bakshi H.S., Vijayalakshmi C., Nakamura K.	An experimental study probing moisture kinetics and indices of microwave dried fecal sludge with an insight on real world applications	Separation Science and Technology (Philadelphia)	2.475
121.	SMEC, CC	Pradeep R., Venugopal T., Sivakumar R.	Computational investigations of battery thermal management system with environmental effects employing a combination of phase change materials and forced air cooling	International Journal of Green Energy	2.459
122.	SCOPE, CC	Hemamalini V., Rajarajeswari S., Nachiyappan S., Sambath M., Devi T., Singh B.K., Raghuvanshi A.	Food Quality Inspection and Grading Using Efficient Image Segmentation and Machine Learning-Based System	Journal of Food Quality	2.450
123.	SENSE, CC	Edwin M., Nair M.S., Sekhar S.J.	A comprehensive review on impacts of COVID-19 in food preservation and cold chain: An approach towards implementing green energy technologies	Environmental Progress and Sustainable Energy	2.431
124.	GENERAL, CC	Bharathiraja S., Rajesh Kanna B., Hariharan M.	A Deep Learning Framework for Image Authentication: An Automatic Source Camera Identification Deep-Net	Arabian Journal for Science and Engineering	2.334
125.	SMEC	Chandrasekar P., Nagaraju D.	The Effects of Electroless Ni–P-Coated SiC and Al <sub>2</sub> O <sub>3</sub> on Wear Behaviour and Thermal Stability of AMMCs	Arabian Journal for Science and Engineering	2.334
126.	SELECT	Yuvapriya T., Laskshmi P., Elumalai V.K.	Experimental Validation of LQR Weight Optimization Using Bat Algorithm Applied to Vibration Control of Vehicle Suspension System	IETE Journal of Research	2.333
127.	SENSE	Nallagonda S., Bhowmick A., Prasad B.	On Selection of Parameters for Cooperative Spectrum Sensing Schemes over $\kappa$ – $\mu$ Fading Channels	IETE Journal of Research	2.333
128.	SAS	Sivasankar S., Udhayakumar R.	A note on approximate controllability of second-order neutral stochastic delay integro-differential evolution inclusions with impulses	Mathematical Methods in the Applied Sciences	2.321
129.	SAS	Dineshkumar C., Udhayakumar R.	Results on approximate controllability of fractional stochastic Sobolev-type Volterra–Fredholm integro-differential equation of order $1 < r < 2$	Mathematical Methods in the Applied Sciences	2.321
130.	SBST	Paul U., Banerjee S.	The functional significance and cross-talk of non-coding RNAs in triple negative and quadruple negative breast cancer	Molecular Biology Reports	2.316

131.	CNVD, CC	Sravani M.M., Durai S.A.	On Efficiency Enhancement of SHA-3 for FPGA-Based Multimodal Biometric Authentication	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	2.312
132.	SENSE, CC	Sowjanya D., Sivapatham S., Kar A., Mladenovic V.	Mask Estimation Using Phase Information and Inter-channel Correlation for Speech Enhancement	Circuits, Systems, and Signal Processing	2.225
133.	SELECT, CC	Patel A., Swathika O.V.G., Subramaniam U., Babu T.S., Tripathi A., Nag S., Karthick A., Muhibbullah M.	A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms	International Journal of Photoenergy	2.113
134.	SAS	Deshmukh S.A., Bhagat P.R.	Metal Free Porphyrin Photocatalyst Comprising Ionic Liquid with Electron Donor Acceptor Moiety for Visible Light Assisted Oxidative Amination	ChemistrySelect	2.109
135.	SAS, CC	Gnanasekaran R., Xu Y.	Understanding the Energetic Components Influencing the Thermodynamic Quantities of Carbonic Anhydrase Protein upon Ligand Binding	ChemistrySelect	2.109
136.	CNBT	Mundekkad D., Alex A.V.	Analysis of structural and biomimetic characteristics of the green-synthesized Fe <sub>3</sub> O <sub>4</sub> nanozyme from the fruit peel extract of Punica granatum	Chemical Papers	2.097
137.	SAS	Meena J., Santhakumar K.	Bioreduction of iron nitrate hexahydrate by Roselle hibiscus fruit extract: applications	Chemical Papers	2.097
138.	SENSE	Magidi S., Jabeena A.	Analysis of hybrid FSO/RF communication system under the effects of combined atmospheric fading and pointing errors	Optical and Quantum Electronics	2.084
139.	SENSE, CC	Anbarasi K., Sangeetha R.G., Hemanth C.	Analysis of the performance of coded and un-coded mixed RF and multihop coherent OFDM-FSO systems for 5G-CRAN applications	Optical and Quantum Electronics	2.084
140.	GENERAL, CC	Aravindan N., Raja A.S., Selvendran S., Balasubramonian M.	Dual Channel Indoor VLC System Using PDM Scheme: An Investigation	Optical and Quantum Electronics	2.084
141.	SAS, CC	Gopalakrishnan V., Balaji D., Dangate M.S.	Review - Conjugated Polymer Photovoltaic Materials: Performance and Applications of Organic Semiconductors in Photovoltaics	ECS Journal of Solid State Science and Technology	2.070
142.	SMEC	Gumber S., Ghosh S., Bera S., Prabhakaran T.V.	On the importance of non-ideal sulphate processing of multi-component aerosol haze over urban areas	Meteorology and Atmospheric Physics	2.065
143.	SCOPE	Elizebeth Zachariah U., Kuppusamy L.	A novel approach on energy-efficient clustering protocol for wireless sensor networks	International Journal of Communication Systems	2.047
144.	SCOPE	Sai Lohitha N., Kumar P.M.	An efficient framework for processing big data in internet of things enabled cloud environments	International Journal of Communication	2.047

				Systems	
145.	SENSE	Nagarajan R., Vali Mohamad N.M.	Energy optimized resource and power allocation in an uplink-based underlay device-to-device communication for 5G network	International Journal of Communication Systems	2.047
146.	SAS	Lakshman C., Hari Prakash S., Mohana Roopan S.	Materials based on molybdenum disulfide as a catalyst in organic transformations: An overview	Synthetic Communications	2.007
147.	SBST	Vellingiri B., Aishwarya S.Y., Benita Jancy S., Sriram Abhishek G., winster Suresh babu H., Vijayakumar P., Narayanasamy A., Mariappan S., Sangeetha R., Valsala Gopalakrishnan A., Parthasarathi R., Iyer M.	An anxious relationship between Autism Spectrum Disorder and Gut Microbiota: A tangled chemistry?	Journal of Clinical Neuroscience	1.961
148.	SBST	Venkatesan P., Sathiavelu M.	Effective kinetic modeling and phycoremediation of Cr(IV) ions from tannery effluent by using microalgae–Chlamydomonas moewusii, Auxenochlorella pyrenoidosa, Scenedesmus sp.	Bioremediation Journal	1.909
149.	SBST	Jacqueline Rosy P., Shanmugam V., Jas J.S., Jayakodi S.	Biomimetic Copper Oxide Nanoparticles and its Validation Through In-silico Approach on Cardiac Enzymes	Current Nanoscience	1.824
150.	CBCMT	Praveenkumar K., Swaroop S., Manivasagam G.	Residual Stress Distribution, Phase Transformation, and Wettability Characteristics of Laser Peened Austenitic Stainless Steel	Journal of Materials Engineering and Performance	1.819
151.	SCOPE, CC	Amma N.G.B.	A vector convolutional deep autonomous learning classifier for detection of cyber attacks	Cluster Computing	1.809
152.	SMEC	Chandrasekar P., Nagaraju D.	The Effect of Electroless Ni–P-Coated Al <sub>2</sub> O <sub>3</sub> on Mechanical and Tribological Properties of Scrap Al Alloy MMCs	International Journal of Metalcasting	1.805
153.	CFM	Ezhil Vizhi R., Ajisha D.S.	Investigations on nucleation kinetics and dielectric behavior of potassium DL-malato borate hydrate (C <sub>8</sub> H <sub>10</sub> BKO <sub>11</sub> ) single crystal	Journal of Crystal Growth	1.797
154.	SELECT	Subramaniaswamy V., Jagadeeswari V., Indragandhi V., Jhaveri R.H., Vijayakumar V., Kotecha K., Ravi L.	Somewhat Homomorphic Encryption: Ring Learning with Error Algorithm for Faster Encryption of IoT Sensor Signal-Based Edge Devices	Security and Communication Networks	1.791
155.	SMEC	Katoch A., Razak F.A., Suresh A., BS B., Gundabattini E.	Performance analysis of nano-refrigerants used in the vapor compression refrigeration system using MATLAB-Simulink	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical	1.762



				Engineering Science	
156.	SBST	Sur S., Sathiavelu M.	A concise overview on pesticide detection and degradation strategies	Environmental Pollutants and Bioavailability	1.737
157.	SMEC	Chadha U., Selvaraj S.K., Ashokan H., Hariharan S.P., Mathew Paul V., Venkatarangan V., Paramasivam V.	Complex Nanomaterials in Catalysis for Chemically Significant Applications: From Synthesis and Hydrocarbon Processing to Renewable Energy Applications	Advances in Materials Science and Engineering	1.726
158.	SELECT	Vivek P., Rekha M., Suvitha A., Kowsalya M., Steephon A.	Diamond morphology CuO nanomaterial's elastic properties, ADMET, optical, structural studies, electrical conductivity and antibacterial activities analysis	Inorganic and Nano-Metal Chemistry	1.716
159.	SITE	Krishnan R., Krishnan R.S., Robinson Y.H., Julie E.G., Long H.V., Sangeetha A., Subramanian M., Kumar R.	An Intrusion Detection and Prevention Protocol for Internet of Things Based Wireless Sensor Networks	Wireless Personal Communications	1.671
160.	SCOPE	Viswanathan S., Bhuvaneswaran R.S., Ganapathy S., Kannan A.	Euler Phi Function and Gamma Function Based Elliptic Curve Encryption for Secured Group Communication	Wireless Personal Communications	1.671
161.	SENSE, CC	Bhangale K.B., Kothandaraman M.	Survey of Deep Learning Paradigms for Speech Processing	Wireless Personal Communications	1.671
162.	SAS	Hemalatha R., Kameswaran P.K.	INFLUENCE OF NANOPARTICLE SHAPES WITH VARIABLE PERMEABILITY ON NON-DARCY POROUS MEDIUM	Journal of Porous Media	1.663
163.	SMEC	Sathishkumar M., Manikandan M., Arivazhagan N., Arulmurugan B., Kumaran Selvaraj S., Vignesh M., Rajakumar S., Rajkumar S.	Hot corrosion behaviour of constant and pulsed current welded Hastelloy X in Na <sub>2</sub> SO <sub>4</sub> , V <sub>2</sub> O <sub>5</sub> , and NaCl salt mixture at 900 °C	Materials Research Express	1.620
164.	SMEC	Elangovan T., Palanisamy P.	Performance analysis of lauric acid embedded with nanoparticles as phase change materials in heat transfer applications	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	1.620
165.	GENERAL	Hamah Sor N., Ali T.K.M., Vali K.S., Ahmed H.U., Faraj R.H., Bheel N., Mosavi A.	The behavior of sustainable self-compacting concrete reinforced with low-density waste Polyethylene fiber	Materials Research Express	1.620
166.	SMEC	Tiwari A., Tiwari A., Bhatia A., Chadha U., Kandregula S.,	Nanomaterials for Electromagnetic Interference Shielding Applications: A Review	Nano	1.556

		Selvaraj S.K., Bhardwaj P.			
167.	GENERAL, CC	Om Kumar C.U., Durairaj J., Ahamed Ali S.A., Justindhas Y., Marappan S.	Effective intrusion detection system for IoT using optimized capsule auto encoder model	Concurrency and Computation: Practice and Experience	1.536
168.	SMEC	Chidambaram K., Ashok B., Vignesh R., Deepak C., Ramesh R., Narendhra T.M.V., Muhammad Usman K., Kavitha C.	Critical analysis on the implementation barriers and consumer perception toward future electric mobility	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	1.484
169.	SAS	Harish Babu D., Venkateswarlu B., Sarojamma G., Satya Narayana P.V.	Coupled Impression of Radiative Thermal Flux and Lorentz Force on the Water Carrying Composite Nanoliquid Streaming Past an Elastic Sheet	Journal of Thermal Science and Engineering Applications	1.470
170.	SAS	Devi G.L., Niranjan H., Sivasankaran S.	Effects of chemical reactions, radiation, and activation energy on MHD buoyancy induced nanoflow past a vertical surface	Scientia Iranica	1.435
171.	SAS	Shil S., Nashine H.K.	Positive definite solution of non-linear matrix equations through fixed point technique	AIMS Mathematics	1.427
172.	SENSE	Sivadas N.A.	PAPR reduction of OFDM systems using H-SLM method with a multiplierless IFFT/FFT technique	ETRI Journal	1.347
173.	SELECT, CC	Somakumar R., Kasinathan P., Monicka G., Rajagopalan A., Ramachandramurthy V.K., Subramaniam U.	Optimization of emission cost and economic analysis for microgrid by considering a metaheuristic algorithm- assisted dispatch model	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields	1.296
174.	SELECT	Muthuselvi G., Saravanan B.	Clustering-based Energy-aware Scheduling of Smart Residential Area	Advances in Electrical and Computer Engineering	1.221
175.	SENSE, CC	Jagannath M., Adalarasu K., Keerthik Dhivya R.	Neural correlates of guilt knowledge analysis using electroencephalographic technique	Journal of Forensic Psychiatry and Psychology	1.148
176.	SITE	Saveetha P., Robinson Y.H., Shanmuganathan V., Kadry S., Nam Y.	Hybrid Energy-based Secured clustering technique for Wireless Sensor Networks	Journal of Internet Technology	1.005
177.	SMEC	Somashekar V., Immanuel Selwynraj A.	Numerical study of unmanned aerial vehicle (UAV) in dry microburst environment using large eddy simulation (LES) model	Aircraft Engineering and Aerospace Technology	0.975
178.	SAS	Karmakar S., Garai H., Dey L.K., Chanda A.	Existence of Solutions to Non-Linear Quadratic Integral Equations via Measure of Non-Compactness	Filomat	0.844
179.	SAS	Verma S.K., Vats R.K., Kumar A., Vijayakumar V., Shukla A.	A discussion on the existence and uniqueness analysis for the coupled two-term fractional differential	Turkish Journal of Mathematics	0.803

			equations		
180.	CCPS, CC	Bhardwaj S., Prusty M.R.	BERT Pre-processed Deep Learning Model for Sarcasm Detection	National Academy Science Letters	0.788
181.	CIMR	Srikanth M., Siva T., Annamalai A.R.	Effect of Rhenium and Gadolinium Additions on the Mechanical Properties of Ti-48Al-2Cr-2Nb Sintered Through Spark Plasma Sintering	Strength of Materials	0.620
182.	SAS, CC	Priya S., Umadevi T., Gowri S., Vinitha G.	Crystal growth, structural, spectral, optical, DFT analysis and Z-scan analysis of pyridine-1-ium-2-carboxylatehydrogenbromide (PHBr) for optoelectronic and nonlinear optical applications	Journal of the Indian Chemical Society	0.284
183.	CFM	Vijayan K., Vijayachamundeeswari S.P.	Enhancement on the structural, functional, optical and morphological properties of temperature treated silver sulfide nanostructures	Journal of the Indian Chemical Society	0.284
184.	SAS	John R.A.B., Kumar A.R.	Structural, morphological and optical aspects of novel synthesized pristine and hafnium doped nickel oxide nanoparticles	Journal of the Indian Chemical Society	0.284
185.	CBCMT	Maurya H.S., Juhani K., Sergejev F., Prashanth K.G.	Additive manufacturing of TiC-based cermet with stainless steel as a binder material	Materials Today: Proceedings	-
186.	SAS	Udhayakumar A., Antoney Raj M.S.	Improved photocatalytic efficiency of bio-synthesised SnO <sub>2</sub> nanoparticle in dye degradation	Nanotechnology for Environmental Engineering	-
187.	SAS	Balan G., Ramasubramanian V.	A novel technique for peripheral dose measurements in external beam radiation therapy	Journal of Radiotherapy in Practice	-
188.	SAS	Mishra L.N., Kumar A., Mishra V.N.	Approximation of Functions by Lupas-Kantorovich-Stancu Type Operators based on Polya Distribution	Applied Mathematics and Information Sciences	-
189.	SAS	Joy M., Chandrasekharan G., Khan M.A., Arunachalapandi M., Chellapandi T., Harish D., Chitra D., Roopan S.M.	Citrus lemon mediated green synthesis of ZnTiO <sub>3</sub> nanospheres for the degradation of petrochemical wastewater	Environmental Quality Management	-
190.	SAS	Gairola A.R., Singh K.K., Mishra L.N.	Degree of Approximation by Certain Durrmeyer Type Operators	Discontinuity, Nonlinearity, and Complexity	-
191.	SAS	GangadharanMurugusundaramoorthy, Dutta H.	Fekete-Szegő Inequality and Application of Poisson Distribution Series for some Subclasses of Analytic Functions related with Bessel Functions	Applied Mathematics and Information Sciences	-
192.	SAS	Bash H.T., Sivaraj R.	Heat and mass transfer in stagnation point flow of cross nanofluid over a permeable extending/contracting	Journal of Thermal Engineering	-

			surface: A stability analysis		
193.	SAS	Madhusudanan V., Srinivas M.N., Nwokoye C.H., Murthy B.S.N., Sridhar S.	HOPF- bifurcation analysis of delayed computer virus model with holling type iii incidence function and treatment	Scientific African	-
194.	SAS	Madhavi S., Prasad V.R., Gaffar S.A.	Polymeric Dissipative Convection Flow from an Inclined Plane with Chemical Reaction: Numerical Study	Journal of Applied and Computational Mechanics	-
195.	SAS	Reddy K.A., Basha S.S.	REVERSE EDGE MAGIC LABELING OF CARTESIAN PRODUCT, UNIONS OF BRAIDS AND UNIONS OF TRIANGULAR BELTS	Journal of Applied Mathematics and Informatics	-
196.	SAS	Singhal A., Sahu S.A., Chaudhary S., Sultana M.	Scattering and Backscattering Study of Mechanical Plane Wave in Composite Materials Plates (Earth model 1066B and LiNbO3)	Journal of Applied and Computational Mechanics	-
197.	SAS	Basha H.T., Sivaraj R.	Stability Analysis of Casson Nanofluid Flow over an Extending/Contracting Wedge and Stagnation Point	Journal of Applied and Computational Mechanics	-
198.	SBST	Namratha K., Cinchana K., Bhaskara Rao K.V.	A study on extraction and characterization of natural red pigment from a soil isolate <i>Serratia marcescens</i> CN14	Research Journal of Pharmacy and Technology	-
199.	SBST	Dey D., Hemachandran H., D T.K., Doss G.P., Priyadarshini R., Siva R.	Accumulation of betacyanin in <i>Hylocereus undatus</i> rind: Pigment stability analysis and its role in xanthine oxidase inhibition	Phytomedicine Plus	-
200.	SBST	Gundupalli M.P., Anne Sahithi S.T., Jayex E.P., Asavasanti S., Yasurin P., Cheng Y.- S., Sriariyanun M.	Combined effect of hot water and deep eutectic solvent (DES) pretreatment on a lignocellulosic biomass mixture for improved saccharification efficiency	Bioresource Technology Reports	-
201.	SBST	Shaw P., Lokhotiya K., Kumarasamy C., Sunil K., Suresh D., Shetty S., Muthukaliannan G.K., Baxi S., Mani R.R., Sivanandy P., Chandramoorthy H., Gupta M.M., Samiappan S., Jayaraj R.	Mapping Research on miRNAs in Cancer: A Global Data Analysis and Bibliometric Profiling Analysis	Pathophysiology	-
202.	SBST	Patel T.N., Dhanyamraju P.K.	Role of aberrant Sonic hedgehog signaling pathway in cancers and developmental anomalies	Journal of Biomedical Research	-
203.	SBST	Samrot A.V., Michael E.N., Anand D.A., Mercy J.L., Sabesan G.S., Mohanty B.K., Visvanathan S., Saigeetha S.	The utilization of <i>Garcinia mangostana</i> fibers for the removal of crystal violet dye	Materials Today: Proceedings	-
204.	SCE	Srinivasreddy K., Bala Murugan S., Jindal B.B., Vali K.S.	Experimental study on the properties of ternary blended geopolymer rich mortar	Innovative Infrastructure Solutions	-

205.	SCOPE	Bhuvaneshwari P., Rao A.N.	A comparative study on various pre-processing techniques and deep learning algorithms for text classification	International Journal of Cloud Computing	-
206.	SCOPE	Prabakaran N., Sree Sai Kumar S., Kranthi Kiran P., Supriya P.	A Deep Learning Based Social Distance Analyzer with Person Detection and Tracking Using Region Based Convolutional Neural Networks for Novel Coronavirus	Journal of Mobile Multimedia	-
207.	SCOPE	Chotani A., Jain R., Naresh K., Anitha K., Goyal R.	A microcontroller-based system for patient and elderly community assistance	International Journal of Cloud Computing	-
208.	SCOPE	Prathik A., Anuradha J., Uma K.	A novel filter for removing image noise and improving the quality of image	International Journal of Cloud Computing	-
209.	SCOPE	Kannan N., Goyal R., Goel D., Anitha K.	A study on automated toll collection: Towards the utilisation of RFID-based system	International Journal of Cloud Computing	-
210.	SCOPE	Prathap R., Mohanasundaram R.	An optimal selection of virtual machine for e-healthcare services in cloud data centres	International Journal of Cloud Computing	-
211.	SCOPE	Deepa T.P., Nagaraja Rao A.	Extraction and Separation of Overlapped Squamous Cell Cytoplasm with Disjoint Nuclei in Cervical Pap Smear Image	Journal of Mobile Multimedia	-
212.	SCOPE	Paliwal M., Chilla R.R., Prasanth N.N., Goundar S., Raja S.P.	Parallel implementation of solving linear equations using OpenMP	International Journal of Information Technology (Singapore)	-
213.	SCOPE	Arya A., Perumal B., Krishnan S.	Parallelized solution to the asymmetric travelling salesman problem using central processing unit acceleration	Indonesian Journal of Electrical Engineering and Computer Science	-
214.	SCOPE	Anakath A.S., Kannadasan R., Prabakaran N., Basha M.S.S.	Tangles in IOTA to make crypto currency transactions free and secure	International Journal of Cloud Computing	-
215.	SELECT	Hassan M.A., Javed A.R., Hassan T., Band S.S., R S., Rizwan M.	Reinforcing Communication on the Internet of Aerial Vehicles	IEEE Transactions on Green Communications and Networking	-
216.	SENSE	Magidi S., Jabeena A.	Average spectral efficiency of multi-pulse position with adaptive transmissions and aperture averaging over atmospheric turbulence	Journal of Optical Communications	-
217.	SENSE	Vijay H.M., Ramakrishnan V.N.	Geometrical Variation of a Conductive Filament in RRAM and Its Impact on a Single-Event Upset	ECTI Transactions on Electrical Engineering, Electronics, and Communications	-
218.	SITE	Magesh G., Swarnalatha P.	Analysis of breast cancer prediction and visualisation using machine learning models	International Journal of Cloud Computing	-



219.	SITE	Anand R.V., Meenakshisundaram I., Jothikumar R., Chaitanya P.K.	Big data in healthcare made simple to save people's lives	International Journal of Cloud Computing	-
220.	SITE	Pandya S., Gadekallu T.R., Reddy P.K., Wang W., Alazab M.	InfusedHeart: A Novel Knowledge- Infused Learning Framework for Diagnosis of Cardiovascular Events	IEEE Transactions on Computational Social Systems	-
221.	SITE	Sundar S., Sumathy S.	Transfer learning approach in deep neural networks for uterine fibroid detection	International Journal of Computational Science and Engineering	-
222.	SMEC	Kandala A.V.U.K., Solomon D.G., Arulraj J.J.	Advantages of Taguchi Method compared to Response Surface Methodology for achieving the Best Surface Finish in Wire Electrical Discharge Machining (WEDM)	Journal of Mechanical Engineering	-
223.	SMEC	Krishnasamy P., Rajamurugan G., Muralidharan B., Krishnaiah R.	General practice to enhance bast fiber composite properties for state of art applications-A Review	Engineering Research Express	-
224.	SMEC	Kotbi A., Imran M., Kaja K., Rahaman A., Ressami E.M., Lejeune M., Lakssir B., Jouiad M.	Graphene and g-C3N4-Based Gas Sensors	Journal of Nanotechnology	-
225.	SMEC	R B., S S.D., G S.B.	Machine learning approaches for prediction of properties of natural fiber composites : Apriori algorithm	Australian Journal of Mechanical Engineering	-
226.	SMEC	Senapati S., Mohanty A.	Studies on Parameters affecting Flow Behaviour of High-Concentration Ash Slurry: Effect of a Natural Drag reducing Agent on Pumping Power during Pipeline Transportation	Journal of The Institution of Engineers (India): Series C	-
227.	GENERAL	Kalyanaram G., Saini G.K., Mony S., Jayasankaran N.	Behavioral response to online pricing: empirical and managerial insights	Journal of Indian Business Research	-
228.	CAT, CC	Inamdar J.J., Iyswarya Annapoorani K.	Terminal Sliding Mode Control for Dynamic Voltage Restorer	Distributed Generation and Alternative Energy Journal	-
229.	SAS, CC	Rajalakshmi M., Ghosh M.	Hopf-bifurcation Analysis of a Delayed Model for the Treatment of Cancer using Virotherapy	Kyungpook Mathematical Journal	-
230.	SCOPE, CC	Sridharan S., Nirmal V., Soundar S., Maheswari N.	Assistive Technology to Communicate Through Eye Blinks: A Deep Learning Approach	International Journal of Computing and Digital Systems	-
231.	SCOPE, CC	Geetha S., Saha J., Dasgupta I., Bera R., Lawal I.A., Kadry S.	Design of Waste Management System Using Ensemble Neural Networks	Designs	-
232.	SCOPE, CC	Prathilothamai M., Viswanathan V.	SEMANTIC BASED MOVING WEIGHTED AVERAGE MODEL FOR ROAD TRAFFIC PREDICTION	Indian Journal of Computer Science and Engineering	-

233.	SELECT, CC	Krishnan A.V., Kumar N.S.	REAL-TIME SIMULATION ANALYSIS OF LM ALGORITHM-BASED NN FOR THE CONTROL OF VSC IN GRID CONNECTED PV-DIESEL MICROGRID USING OP4500 RT-LAB SIMULATOR	International Journal of Power and Energy Systems	-
234.	SELECT, CC	Sandesh R.S., Venkatesan N.	Steady state VEP-based BCI to control a five-digit robotic hand using LabVIEW	International Journal of Biomedical Engineering and Technology	-
235.	SELECT, CC	Senthil R., Kavukcu S.B., Aruni A.W., Dandar U., Basaran B., Sumathi V.	Utilization of leather fibrous wastes for the production of reconstituted fabric materials: heavy metal determination and removal	Waste Disposal and Sustainable Energy	-
236.	SMEC, CC	Gurusamy M., Sriram S.	Investigations on the Choice of Johnson-Cook Constitutive Model Parameters for the Orthogonal Cutting Simulation of Inconel 718	Journal of Advanced Manufacturing Systems	-
237.	SMEC, CC	Lebaal N., Jeyanthi S., Davidson J., Leninbabu M.C., Karunamurthy K., Feroskhan M.M., Suganya G., Saleel I.	Prediction and optimization of performance and emission characteristics of a dual fuel engine using machine learning	International Journal for Simulation and Multidisciplinary Design Optimization	-
238.	SSL, CC	Mithra S.G.S., Vijayalaskmi V.	A mathematical model for breaching the blockades-mainstreaming transwomen and transmen in Chennai by using block fuzzy cognitive	Journal of Interdisciplinary Mathematics	-
239.	SSL, CC	Roshini R., Rajasekaran V.	More Than an Invalid: A Comparative Study Addressing Disability Portrayal in Children's Fiction	Theory and Practice in Language Studies	-
240.	SSL, CC	Brown M.H., Patchainayagi S.	Resistance Through Language Appropriation to Create a Reality for Oneself in the Postcolonial Nigeria	Theory and Practice in Language Studies	-

**Cumulative Impact Factor (March 2022) = 676.165**

**Table–V**

Top 100 most cited publications in the last 5 years (2017-2021)

S. No.	School / Centre	Author (s)	Title	Year	Journal	Cited by
1.	SBST	Chakraborty C., Sharma A.R., Sharma G., Doss C.G.P., Lee S.-S.	Therapeutic miRNA and siRNA: Moving from Bench to Clinic as Next Generation Medicine	2017	Molecular Therapy - Nucleic Acids	447
2.	SBST	Klionsky D.J., Abdel-Aziz A.K., Abdelfatah S., Abdellatif M., Abdoli A., Abel S., Abeliovich H., Abildgaard M.H., ....Talwar P., et al.,	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)	2021	Autophagy	331
3.	SBST	Ravanan P., Srikumar I.F., Talwar P.	Autophagy: The spotlight for cellular stress responses	2017	Life Sciences	289
4.	SELECT	Ram J.P., Babu T.S., Rajasekar N.	A comprehensive review on solar PV maximum power point tracking techniques	2017	Renewable and Sustainable Energy Reviews	277
5.	SCOPE	Dale R., Gruning B., Sjodin A., Rowe J., Chapman B.A., Tomkins-Tinch C.H., Valieris R., Batut B., Caprez A., Cokelaer T., Yusuf D., Beauchamp K.A., Brinda K., Wollmann T., Corguille G.L., Ryan D., Bretaudeau A., Hoogstrate Y., Pedersen B.S., Heeringen S., Raden M., Luna-Valero S., Soranzo N., Smet M.D., Kuster G.V., Kirchner R., Pantano L., Charlop-Powers Z., Thornton K., Martin M., Beek M.D., Maticzka D., Miladi M., Will S., Gravouil K., Unneberg P., Brueffer C., Blank C., Piro V.C., Wolff J., Antao T., Gladman S., Shlyakhter I., Hollander M., Mabon P., Shen W., Boekel J., Holtgrewe M., Bouvier D., de Ruiter J.R., Cabral J., Choudhary S., Harding N., Kleinkauf R., Enns E., Eggenhofer F., Brown J., Cock P.J.A., Timm H., Thomas C., Zhang X.-O.,	Bioconda: Sustainable and comprehensive software distribution for the life sciences	2018	Nature Methods	275

		Chambers M., Turaga N., Seiler E., Brislawn C., Priesse E., Fallmann J., Kelleher J., Nguyen H., Parsons L., Fang Z., Stovner E.B., Stoler N., Ye S., Wohlers I., Farouni R., Freeberg M., Johnson J.E., Bargull M., Kensche P.R., Webster T.H., Eppley J.M., Stahl C., Rose A.S., Reynolds A., Wang L.-B., Garnier X., Dirmeier S., Knudsen M., Taylor J., Srivastava A., Rai V., Agren R., Junge A., Guimera R.V., Khan A., Schmeier S., He G., Pinello L., Hagglund E., Mikheyev A.S., Preussner J., Waters N.R., Li W., Capellades J., Chande A.T., Pirola Y., Hiltemann S., Bendall M.L., Singh S., Dunn W.A., Drouin A., Domenico T.D., Bruijn I., Larson D.E., Chicco D., Grassi E., Gonnella G., B J., Wang L., Giacomoni F., Clarke E., Blankenberg D., Tran C., Patro R., Laurent S., Gopez M., Sennblad B., Baaijens J.A., Ewels P., Wright P.R., Enache O.M., Roger P., Dampier W., Koppstein D., Devisetty U.K., Rausch T., Cornwell M., Salatino A.E., Seiler J., Jung M., Kornobis E., Cumbo F., Stocker B.K., Moskalenko O., Bogema D.R., Workentine M.L., Newhouse S.J., Leprevost F.D.V., Arvai K., Koster J.				
6.	SITE	Mohan S., Thirumalai C., Srivastava G.	Effective heart disease prediction using hybrid machine learning techniques	2019	IEEE Access	274
7.	SMEC	Manavalan E., Jayakrishna K.	A review of Internet of Things (IoT) embedded sustainable supply chain for industry 4.0 requirements	2019	Computers and Industrial Engineering	256
8.	SBST	Rajeshkumar S., Bharath L.V.	Mechanism of plant-mediated synthesis of silver nanoparticles – A review on biomolecules involved, characterisation and antibacterial	2017	Chemico-Biological Interactions	247

			activity			
9.	SBST	Renu K., V.G. A., P.B. T.P., Arunachalam S.	Molecular mechanism of doxorubicin-induced cardiomyopathy – An update	2018	European Journal of Pharmacology	232
10.	SITE	Manogaran G., Varatharajan R., Lopez D., Kumar P.M., Sundarasekar R., Thota C.	A new architecture of Internet of Things and big data ecosystem for secured smart healthcare monitoring and alerting system	2018	Future Generation Computer Systems	227
11.	SCHEME	Koyande A.K., Chew K.W., Rambabu K., Tao Y., Chu D.-T., Show P.-L.	Microalgae: A potential alternative to health supplementation for humans	2019	Food Science and Human Wellness	227
12.	SCOPE	Wang J., Ju C., Gao Y., Sangaiah A.K., Kim G.-J.	A PSO based energy efficient coverage control algorithm for wireless sensor networks	2018	Computers, Materials and Continua	220
13.	SMEC	Safri S.N.A., Sultan M.T.H., Jawaid M., Jayakrishna K.	Impact behaviour of hybrid composites for structural applications: A review	2018	Composites Part B: Engineering	215
14.	SMBS, CC	Radha R., Sreekanth D.	Insight of magnesium alloys and composites for orthopedic implant applications – a review	2017	Journal of Magnesium and Alloys	211
15.	SBST	Rajeshkumar S., Naik P.	Synthesis and biomedical applications of Cerium oxide nanoparticles – A Review	2018	Biotechnology Reports	208
16.	SCOPE	Li X., Niu J., Kumari S., Wu F., Sangaiah A.K., Choo K.-K.R.	A three-factor anonymous authentication scheme for wireless sensor networks in internet of things environments	2018	Journal of Network and Computer Applications	207
17.	SCALE	Ealias A.M., Saravanakumar M.P.	A review on the classification, characterisation, synthesis of nanoparticles and their application	2017	IOP Conference Series: Materials Science and Engineering	207
18.	SCOPE	Samuel O.W., Asogbon G.M., Sangaiah A.K., Fang P., Li G.	An integrated decision support system based on ANN and Fuzzy_AHP for heart failure risk prediction	2017	Expert Systems with Applications	201
19.	SCOPE	Li X., Ibrahim M.H., Kumari S., Sangaiah A.K., Gupta V., Choo K.-K.R.	Anonymous mutual authentication and key agreement scheme for wearable sensors in wireless body area networks	2017	Computer Networks	199
20.	SCSE, CC	Sumaiya Thaseen I., Aswani Kumar C.	Intrusion detection model using fusion of chi-square feature selection and multi class SVM	2017	Journal of King Saud University - Computer and Information Sciences	199
21.	SBST	Hyde K.D., Xu J., Rapior S., Jeewon R., Lumyong S., Niego A.G.T., Abeywickrama P.D., Aluthmuhandiram J.V.S., Brahmananage R.S., Brooks S., Chaiyasen A., Chethana K.W.T., Chomnunti P., Chepkirui C., Chuankid B.,	The amazing potential of fungi: 50 ways we can exploit fungi industrially	2019	Fungal Diversity	196



		de Silva N.I., Doilom M., Faulds C., Gentekaki E., Gopalan V., Kakumyan P., Harishchandra D., Hemachandran H., Hongsanan S., Karunarathna A., Karunarathna S.C., Khan S., Kumla J., Jayawardena R.S., Liu J.-K., Liu N., Luangharn T., Macabeo A.P.G., Marasinghe D.S., Meeks D., Mortimer P.E., Mueller P., Nadir S., Nataraja K.N., Nontachaiyapoom S., O'Brien M., Penkhrue W., Phukhamsakda C., Ramanan U.S., Rathnayaka A.R., Sadaba R.B., Sandargo B., Samarakoon B.C., Tennakoon D.S., Siva R., Sriprom W., Suryanarayanan T.S., Sujarit K., Suwannarach N., Suwunwong T., Thongbai B., Thongklang N., Wei D., Wijesinghe S.N., Winiski J., Yan J., Yasanthika E., Stadler M.				
22.	SBST	Happy Agarwal, Menon S., Venkat Kumar S., Rajeshkumar S.	Mechanistic study on antibacterial action of zinc oxide nanoparticles synthesized using green route	2018	Chemico- Biological Interactions	191
23.	SAS	Ganesamoorthy R., Sathiyam G., Sakthivel P.	Review: Fullerene based acceptors for efficient bulk heterojunction organic solar cell applications	2017	Solar Energy Materials and Solar Cells	189
24.	SCOPE	Li X., Niu J., Bhuiyan M.Z.A., Wu F., Karuppiyah M., Kumari S.	A robust ECC-Based provable secure authentication protocol with privacy preserving for industrial internet of things	2018	IEEE Transactions on Industrial Informatics	177
25.	SELECT	Mohan G., Subashini M.M.	MRI based medical image analysis: Survey on brain tumor grade classification	2018	Biomedical Signal Processing and Control	177
26.	SBST	Menon S., KS S.D., Santhiya R., Rajeshkumar S., S V.K.	Selenium nanoparticles: A potent chemotherapeutic agent and an elucidation of its mechanism	2018	Colloids and Surfaces B: Biointerfaces	176
27.	SBST	Santhoshkumar J., Rajeshkumar S., Venkat Kumar S.	Phyto-assisted synthesis, characterization and applications of gold nanoparticles – A review	2017	Biochemistry and Biophysics Reports	172
28.	SMEC	Rajeshkumar S., Liu Y., Zhang X., Ravikumar B.,	Studies on seasonal pollution of heavy metals in water, sediment, fish and	2018	Chemosphere	169

		Bai G., Li X.	oyster from the Meiliang Bay of Taihu Lake in China			
29.	SITE	Reddy G.T., Reddy M.P.K., Lakshmanan K., Kaluri R., Rajput D.S., Srivastava G., Baker T.	Analysis of Dimensionality Reduction Techniques on Big Data	2020	IEEE Access	169
30.	SCOPE	Elhoseny M., Abdelaziz A., Salama A.S., Riad A.M., Muhammad K., Sangaiah A.K.	A hybrid model of Internet of Things and cloud computing to manage big data in health services applications	2018	Future Generation Computer Systems	159
31.	SITE	Kumar P.M., Lokesh S., Varatharajan R., Chandra Babu G., Parthasarathy P.	Cloud and IoT based disease prediction and diagnosis system for healthcare using Fuzzy neural classifier	2018	Future Generation Computer Systems	159
32.	SCSE, CC	Thangaramya K., Kulothungan K., Logambigai R., Selvi M., Ganapathy S., Kannan A.	Energy aware cluster and neuro-fuzzy based routing algorithm for wireless sensor networks in IoT	2019	Computer Networks	156
33.	SELECT	Ram J.P., Babu T.S., Dragicevic T., Rajasekar N.	A new hybrid bee pollinator flower pollination algorithm for solar PV parameter estimation	2017	Energy Conversion and Management	155
34.	SELECT	Pillai D.S., Rajasekar N.	A comprehensive review on protection challenges and fault diagnosis in PV systems	2018	Renewable and Sustainable Energy Reviews	155
35.	SELECT	Prabaharan N., Palanisamy K.	A comprehensive review on reduced switch multilevel inverter topologies, modulation techniques and applications	2017	Renewable and Sustainable Energy Reviews	155
36.	SCOPE	Darwish A., Hassanien A.E., Elhoseny M., Sangaiah A.K., Muhammad K.	The impact of the hybrid platform of internet of things and cloud computing on healthcare systems: opportunities, challenges, and open problems	2019	Journal of Ambient Intelligence and Humanized Computing	154
37.	SAS, CC	Angel Ezhilarasi A., Judith Vijaya J., Kaviyarasu K., John Kennedy L., Ramalingam R.J., Al-Lohedan H.A.	Green synthesis of NiO nanoparticles using Aegle marmelos leaf extract for the evaluation of in-vitro cytotoxicity, antibacterial and photocatalytic properties	2018	Journal of Photochemistry and Photobiology B: Biology	154
38.	SENSE, CC	Dubey R., Guruviah V.	Review of carbon-based electrode materials for supercapacitor energy storage	2019	Ionics	151
39.	SENSE, CC	Jasmin M., Vigneswaran T.	Fuzzy controller for error control of on - Chip communication	2017	2017 International Conference on Algorithms, Methodology, Models and Applications in Emerging Technologies, ICAMMAET 2017	149

40.	SELECT	Babu T.S., Ram J.P., Dragicevic T., Miyatake M., Blaabjerg F., Rajasekar N.	Particle swarm optimization based solar PV array reconfiguration of the maximum power extraction under partial shading conditions	2018	IEEE Transactions on Sustainable Energy	147
41.	SBST	Kanmani P., Aravind J., Kamaraj M., Sureshbabu P., Karthikeyan S.	Environmental applications of chitosan and cellulosic biopolymers: A comprehensive outlook	2017	Bioresource Technology	144
42.	SBST	Rajeshkumar S., Kumar S.V., Ramaiah A., Agarwal H., Lakshmi T., Roopan S.M.	Biosynthesis of zinc oxide nanoparticles using Mangifera indica leaves and evaluation of their antioxidant and cytotoxic properties in lung cancer (A549) cells	2018	Enzyme and Microbial Technology	143
43.	SCHEME	Rambabu K., Bharath G., Banat F., Show P.L., Cocoletzi H.H.	Mango leaf extract incorporated chitosan antioxidant film for active food packaging	2019	International Journal of Biological Macromolecules	142
44.	SELECT, CC	Lakshmi M., Hemamalini S.	Nonisolated high gain DC-DC converter for DC microgrids	2017	IEEE Transactions on Industrial Electronics	141
45.	SENSE, CC	Reka S.S., Dragicevic T.	Future effectual role of energy delivery: A comprehensive review of Internet of Things and smart grid	2018	Renewable and Sustainable Energy Reviews	139
46.	SELECT	Prasanth Ram J., Rajasekar N.	A Novel Flower Pollination Based Global Maximum Power Point Method for Solar Maximum Power Point Tracking	2017	IEEE Transactions on Power Electronics	137
47.	SCE	Sofi A.	Effect of waste tyre rubber on mechanical and durability properties of concrete – A review	2018	Ain Shams Engineering Journal	137
48.	SBST	Sengani M., Grumezescu A.M., Rajeswari V.D.	Recent trends and methodologies in gold nanoparticle synthesis – A prospective review on drug delivery aspect	2017	OpenNano	136
49.	SCOPE	Wang J., Gu X., Liu W., Sangaiah A.K., Kim H.-J.	An empower hamilton loop based data collection algorithm with mobile agent for WSNs	2019	Human-centric Computing and Information Sciences	134
50.	SCOPE	Mahmood K., Chaudhry S.A., Naqvi H., Kumari S., Li X., Sangaiah A.K.	An elliptic curve cryptography based lightweight authentication scheme for smart grid communication	2018	Future Generation Computer Systems	134
51.	SCOPE	Sangaiah A.K., Medhane D.V., Han T., Hossain M.S., Muhammad G.	Enforcing Position-Based Confidentiality with Machine Learning Paradigm Through Mobile Edge Computing in Real-Time Industrial Informatics	2019	IEEE Transactions on Industrial Informatics	134
52.	SCOPE	Wang J., Gao Y., Liu W., Sangaiah A.K., Kim H.-J.	An intelligent data gathering schema with data fusion supported for mobile sink in wireless sensor networks	2019	International Journal of Distributed Sensor Networks	134

53.	SAS, CC	Jayaprakash N., Vijaya J.J., Kaviyarasu K., Kombaiha K., Kennedy L.J., Ramalingam R.J., Munusamy M.A., Al-Lohedan H.A.	Green synthesis of Ag nanoparticles using Tamarind fruit extract for the antibacterial studies	2017	Journal of Photochemistry and Photobiology B: Biology	132
54.	SITE	Varatharajan R., Manogaran G., Priyan M.K.	A big data classification approach using LDA with an enhanced SVM method for ECG signals in cloud computing	2018	Multimedia Tools and Applications	132
55.	SITE	Manogaran G., Varatharajan R., Priyan M.K.	Hybrid Recommendation System for Heart Disease Diagnosis based on Multiple Kernel Learning with Adaptive Neuro-Fuzzy Inference System	2018	Multimedia Tools and Applications	130
56.	SBST	Jain A., Ranjan S., Dasgupta N., Ramalingam C.	Nanomaterials in food and agriculture: An overview on their safety concerns and regulatory issues	2018	Critical Reviews in Food Science and Nutrition	129
57.	SMEC	Senthur Prabu S., Asokan M.A., Roy R., Francis S., Sreelekh M.K.	Performance, combustion and emission characteristics of diesel engine fuelled with waste cooking oil bio-diesel/diesel blends with additives	2017	Energy	127
58.	SCOPE	Wu F., Li X., Sangaiah A.K., Xu L., Kumari S., Wu L., Shen J.	A lightweight and robust two-factor authentication scheme for personalized healthcare systems using wireless medical sensor networks	2018	Future Generation Computer Systems	126
59.	SCOPE	Shehab A., Elhoseny M., Muhammad K., Sangaiah A.K., Yang P., Huang H., Hou G.	Secure and robust fragile watermarking scheme for medical images	2018	IEEE Access	125
60.	SITE	Iwendi C., Bashir A.K., Peshkar A., Sujatha R., Chatterjee J.M., Pasupuleti S., Mishra R., Pillai S., Jo O.	COVID-19 patient health prediction using boosted random forest algorithm	2020	Frontiers in Public Health	124
61.	SCOPE	Jain V., Sangaiah A.K., Sakhuja S., Thoduka N., Aggarwal R.	Supplier selection using fuzzy AHP and TOPSIS: a case study in the Indian automotive industry	2018	Neural Computing and Applications	123
62.	SMEC	Nanthagopal K., Ashok B., Tamilarasu A., Johny A., Mohan A.	Influence on the effect of zinc oxide and titanium dioxide nanoparticles as an additive with Calophyllum inophyllum methyl ester in a CI engine	2017	Energy Conversion and Management	123
63.	SCOPE	Wang J., Gao Y., Liu W., Sangaiah A.K., Kim H.-J.	An improved routing schema with special clustering using PSO algorithm for heterogeneous wireless sensor network	2019	Sensors (Switzerland)	122
64.	SITE	Manogaran G., Vijayakumar V., Varatharajan R., Malarvizhi Kumar P., Sundarasekar R., Hsu C.-H.	Machine Learning Based Big Data Processing Framework for Cancer Diagnosis Using Hidden Markov Model and GM Clustering	2018	Wireless Personal Communications	122
65.	SITE	Sujath R., Chatterjee J.M., Hassanien A.E.	A machine learning forecasting model for COVID-19 pandemic in India	2020	Stochastic Environmental Research and	121

					Risk Assessment	
66.	SAS, CC	Sundararajan M., Sailaja V., John Kennedy L., Judith Vijaya J.	Photocatalytic degradation of rhodamine B under visible light using nanostructured zinc doped cobalt ferrite: Kinetics and mechanism	2017	Ceramics International	120
67.	SITE	Bhattacharya S., Reddy Maddikunta P.K., Pham Q.-V., Gadekallu T.R., Krishnan S S.R., Chowdhary C.L., Alazab M., Jalil Piran M.	Deep learning and medical image processing for coronavirus (COVID-19) pandemic: A survey	2021	Sustainable Cities and Society	120
68.	SCOPE	Zheng Z., Sangaiah A.K., Wang T.	Adaptive Communication Protocols in Flying Ad Hoc Network	2018	IEEE Communications Magazine	119
69.	SITE	Bhattacharya S., Siva Ramakrishnan S., Praveen Kumar Reddy M., Kaluri R., Singh S., Thippa Reddy G., Alazab M., Tariq U.	A novel PCA-firefly based XGBoost classification model for intrusion detection in networks using GPU	2020	Electronics (Switzerland)	118
70.	SAS	Sandeep N.	Effect of aligned magnetic field on liquid thin film flow of magnetic-nanofluids embedded with graphene nanoparticles	2017	Advanced Powder Technology	116
71.	SITE	Swarna Priya R.M., Maddikunta P.K.R., Parimala M., Koppu S., Gadekallu T.R., Chowdhary C.L., Alazab M.	An effective feature engineering for DNN using hybrid PCA-GWO for intrusion detection in IoMT architecture	2020	Computer Communications	116
72.	SELECT	Sanjay R., Jayabarathi T., Raghunathan T., Ramesh V., Mithulananthan N.	Optimal allocation of distributed generation using hybrid grey Wolf optimizer	2017	IEEE Access	115
73.	SCOPE	Wang J., Gao Y., Liu W., Sangaiah A.K., Kim H.-J.	Energy efficient routing algorithm with mobile sink support for wireless sensor networks	2019	Sensors (Switzerland)	115
74.	SCSE, CC	Bharathi C., Rekha D., Vijayakumar V.	Genetic Algorithm Based Demand Side Management for Smart Grid	2017	Wireless Personal Communications	114
75.	SITE	Kumar P.M., Devi Gandhi U.	A novel three-tier Internet of Things architecture with machine learning algorithm for early detection of heart diseases	2018	Computers and Electrical Engineering	114
76.	SAS	Siripireddy B., Mandal B.K.	Facile green synthesis of zinc oxide nanoparticles by Eucalyptus globulus and their photocatalytic and antioxidant activity	2017	Advanced Powder Technology	113
77.	SITE	Reddy G.T., Reddy M.P.K., Lakshmana K., Rajput D.S., Kaluri R., Srivastava G.	Hybrid genetic algorithm and a fuzzy logic classifier for heart disease diagnosis	2020	Evolutionary Intelligence	113



78.	SCOPE	Kumari S., Karuppiiah M., Das A.K., Li X., Wu F., Kumar N.	A secure authentication scheme based on elliptic curve cryptography for IoT and cloud servers	2018	Journal of Supercomputing	112
79.	SCOPE	Rostami A.S., Badkoobe M., Mohanna F., keshavarz H., Hosseinabadi A.A.R., Sangaiah A.K.	Survey on clustering in heterogeneous and homogeneous wireless sensor networks	2018	Journal of Supercomputing	112
80.	SCOPE	Dhingra S., Madda R.B., Gandomi A.H., Patan R., Daneshmand M.	Internet of things mobile-air pollution monitoring system (IoT-Mobair)	2019	IEEE Internet of Things Journal	110
81.	SBST	Kalpana V.N., Devi Rajeswari V.	A Review on Green Synthesis, Biomedical Applications, and Toxicity Studies of ZnO NPs	2018	Bioinorganic Chemistry and Applications	110
82.	SCOPE	Mekala M.S., Viswanathan P.	A Survey: Smart agriculture IoT with cloud computing	2017	2017 International Conference on Microelectronic Devices, Circuits and Systems, ICMDCS 2017	109
83.	SAS	Kumaran G., Sandeep N.	Thermophoresis and Brownian moment effects on parabolic flow of MHD Casson and Williamson fluids with cross diffusion	2017	Journal of Molecular Liquids	108
84.	SCOPE	Lv N., Chen C., Qiu T., Sangaiah A.K.	Deep Learning and Superpixel Feature Extraction Based on Contractive Autoencoder for Change Detection in SAR Images	2018	IEEE Transactions on Industrial Informatics	108
85.	SBST	Jeelani P.G., Mulay P., Venkat R., Ramalingam C.	Multifaceted Application of Silica Nanoparticles. A Review	2020	Silicon	107
86.	SMEC	Kannan C., Ramanujam R.	Comparative study on the mechanical and microstructural characterisation of AA 7075 nano and hybrid nanocomposites produced by stir and squeeze casting	2017	Journal of Advanced Research	106
87.	SCOPE	Rahmani Hosseinabadi A.A., Vahidi J., Saemi B., Sangaiah A.K., Elhoseny M.	Extended Genetic Algorithm for solving open-shop scheduling problem	2019	Soft Computing	106
88.	SITE	Vijayakumar P., Chang V., Jegatha Deborah L., Balusamy B., Shynu P.G.	Computationally efficient privacy preserving anonymous mutual and batch authentication schemes for vehicular ad hoc networks	2018	Future Generation Computer Systems	106
89.	SCOPE	Venkatesh B., Anuradha J.	A review of Feature Selection and its methods	2019	Cybernetics and Information Technologies	106
90.	SCOPE	Ren Y., Liu Y., Ji S., Sangaiah A.K., Wang J.	Incentive Mechanism of Data Storage Based on Blockchain for Wireless Sensor Networks	2018	Mobile Information Systems	103

91.	SCOPE	Zhang J., Jin X., Sun J., Wang J., Sangaiah A.K.	Spatial and semantic convolutional features for robust visual object tracking	2020	Multimedia Tools and Applications	102
92.	SENSE, CC	Manikandan A., Mani M.P., Jaganathan S.K., Rajasekar R., Jagannath M.	Formation of functional nanofibrous electrospun polyurethane and murivenna oil with improved haemocompatibility for wound healing	2017	Polymer Testing	101
93.	CBCMT	Sensharma P., Madhumathi G., Jayant R.D., Jaiswal A.K.	Biomaterials and cells for neural tissue engineering: Current choices	2017	Materials Science and Engineering C	101
94.	SCE	Anjali R., Shanthakumar S.	Insights on the current status of occurrence and removal of antibiotics in wastewater by advanced oxidation processes	2019	Journal of Environmental Management	101
95.	SCOPE	Wang J., Gao Y., Wang K., Sangaiah A.K., Lim S.	An affinity propagation-based self-adaptive clustering method for wireless sensor networks	2019	Sensors (Switzerland)	100
96.	SAS	Souayeh B., Reddy M.G., Sreenivasulu P., Poornima T., Rahimi-Gorji M., Alarifi I.M.	Comparative analysis on non-linear radiative heat transfer on MHD Casson nanofluid past a thin needle	2019	Journal of Molecular Liquids	99
97.	SBST	Agarwal H., Nakara A., Shanmugam V.K.	Anti-inflammatory mechanism of various metal and metal oxide nanoparticles synthesized using plant extracts: A review	2019	Biomedicine and Pharmacotherapy	98
98.	SITE	Varatharajan R., Manogaran G., Priyan M.K., Sundarasekar R.	Wearable sensor devices for early detection of Alzheimer disease using dynamic time warping algorithm	2018	Cluster Computing	98
99.	SCALE	Bello M.M., Abdul Raman A.A., Purushothaman M.	Applications of fluidized bed reactors in wastewater treatment – A review of the major design and operational parameters	2017	Journal of Cleaner Production	98
100.	SCALE	Franco S., Mandla V.R., Ram Mohan Rao K.	Urbanization, energy consumption and emissions in the Indian context A review	2017	Renewable and Sustainable Energy Reviews	97

**Table–VI**

Publications that contributed to the h-index of VIT.

S. No.	School / Centre	Author (s)	Title	Year	Journal	Cited by
1.	SMEC	Geetha M., Singh A.K., Asokamani R., Gogia A.K.	Ti based biomaterials, the ultimate choice for orthopaedic implants - A review	2009	Progress in Materials Science	3500
2.	SAS	Padmavathy N., Vijayaraghavan R.	Enhanced bioactivity of ZnO nanoparticles - An antimicrobial study	2008	Science and Technology of Advanced Materials	979
3.	VITBS	Suganthi L., Samuel A.A.	Energy models for demand forecasting - A review	2012	Renewable and Sustainable Energy Reviews	730
4.	CNR	Santhosh C., Velmurugan V., Jacob G., Jeong S.K., Grace A.N., Bhatnagar A.	Role of nanomaterials in water treatment applications: A review	2016	Chemical Engineering Journal	634
5.	SITE	Dhinesh Babu L.D., Venkata Krishna P.	Honey bee behavior inspired load balancing of tasks in cloud computing environments	2013	Applied Soft Computing Journal	479
6.	SBST	Chakraborty C., Sharma A.R., Sharma G., Doss C.G.P., Lee S.-S.	Therapeutic miRNA and siRNA: Moving from Bench to Clinic as Next Generation Medicine	2017	Molecular Therapy - Nucleic Acids	447
7.	CNBT	Prathna T.C., Chandrasekaran N., Raichur A.M., Mukherjee A.	Biomimetic synthesis of silver nanoparticles by Citrus limon (lemon) aqueous extract and theoretical prediction of particle size	2011	Colloids and Surfaces B: Biointerfaces	441
8.	CNBT	Kumari M., Mukherjee A., Chandrasekaran N.	Genotoxicity of silver nanoparticles in Allium cepa	2009	Science of the Total Environment	409
9.	SELECT	Fathima A.H., Palanisamy K.	Optimization in microgrids with hybrid energy systems - A review	2015	Renewable and Sustainable Energy Reviews	406
10.	SBST	Jayaseelan C., Rahuman A.A., Kirthi A.V., Marimuthu S., Santhoshkumar T., Bagavan A., Gaurav K., Karthik L., Rao K.V.B.	Novel microbial route to synthesize ZnO nanoparticles using Aeromonas hydrophila and their activity against pathogenic bacteria and fungi	2012	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	404
11.	SBST	Chaudhari N., Talwar P., Parimisetty A., d'Hellencourt C.L., Ravanan P.	A molecular web: Endoplasmic reticulum stress, inflammation, and oxidative stress	2014	Frontiers in Cellular Neuroscience	377
12.	SBST	Das N.	Recovery of precious metals through biosorption - A review	2010	Hydrometallurgy	354
13.	SAS	Lakshmi Prasanna V., Vijayaraghavan R.	Insight into the Mechanism of Antibacterial Activity of ZnO: Surface Defects Mediated Reactive Oxygen	2015	Langmuir	335

			Species even in the Dark			
14.	SBST	Klionsky D.J., Abdel-Aziz A.K., Abdelfatah S., Abdellatif M., Abdoli A., Abel S., Abeliovich H., Abildgaard M.H., ....Talwar P., et al.,	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)	2021	Autophagy	331
15.	SBST	Das N., Vimala R., Karthika P.	Biosorption of heavy metals - An overview	2008	Indian Journal of Biotechnology	328
16.	SBST	Logeswari P., Silambarasan S., Abraham J.	Synthesis of silver nanoparticles using plants extract and analysis of their antimicrobial property	2015	Journal of Saudi Chemical Society	316
17.	SMEC	Xavior M.A., Adithan M.	Determining the influence of cutting fluids on tool wear and surface roughness during turning of AISI 304 austenitic stainless steel	2009	Journal of Materials Processing Technology	302
18.	SMEC	Suganthi L., Iniyan S., Samuel A.A.	Applications of fuzzy logic in renewable energy systems - A review	2015	Renewable and Sustainable Energy Reviews	301
19.	CNBT	Tripathy A., Raichur A.M., Chandrasekaran N., Prathna T.C., Mukherjee A.	Process variables in biomimetic synthesis of silver nanoparticles by aqueous extract of Azadirachta indica (Neem) leaves	2010	Journal of Nanoparticle Research	294
20.	SAS	Srinivas S., Kothandapani M.	The influence of heat and mass transfer on MHD peristaltic flow through a porous space with compliant walls	2009	Applied Mathematics and Computation	291
21.	SBST	Ravanan P., Srikumar I.F., Talwar P.	Autophagy: The spotlight for cellular stress responses	2017	Life Sciences	289
22.	SAS	Devaraj M., Saravanan R., Deivasigamani R., Gupta V.K., Gracia F., Jayadevan S.	Fabrication of novel shape Cu and Cu/Cu <sub>2</sub> O nanoparticles modified electrode for the determination of dopamine and paracetamol	2016	Journal of Molecular Liquids	286
23.	SAS	Roopan S.M., Rohit, Madhumitha G., Rahuman A., Kamaraj C., Bharathi A., Surendra T.V.	Low-cost and eco-friendly phyto-synthesis of silver nanoparticles using Cocos nucifera coir extract and its larvicidal activity	2013	Industrial Crops and Products	284
24.	SCE	Kumar S.V., Vanajakshi L.	Short-term traffic flow prediction using seasonal ARIMA model with limited input data	2015	European Transport Research Review	283
25.	SAS	Kothandapani M., Srinivas S.	Peristaltic transport of a Jeffrey fluid under the effect of magnetic field in an asymmetric channel	2008	International Journal of Non-Linear Mechanics	283
26.	SAS	Srinivas S., Kothandapani M.	Peristaltic transport in an asymmetric channel with heat transfer - A note	2008	International Communications in Heat and Mass Transfer	279
27.	SELECT	Ram J.P., Babu T.S., Rajasekar N.	A comprehensive review on solar PV maximum power point tracking	2017	Renewable and Sustainable Energy	277

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28.	SAS	Sravanthi T.V., Manju S.L.	Indoles - A promising scaffold for drug development	2016	European Journal of Pharmaceutical Sciences	277
29.	SCOPE	Dale R., Grüning B., Sjödin A., Rowe J., Chapman B.A., Tomkins-Tinch C.H., Valieris R., Batut B., Caprez A., Cokelaer T., Yusuf D., Beauchamp K.A., Brinda K., Wollmann T., Corguillé G.L., Ryan D., Bretaudeau A., Hoogstrate Y., Pedersen B.S., Heeringen S., Raden M., Luna-Valero S., Soranzo N., Smet M.D., Kuster G.V., Kirchner R., Pantano L., Charlop-Powers Z., Thornton K., Martin M., Beek M.D., Maticzka D., Miladi M., Will S., Gravouil K., Unneberg P., Brueffer C., Blank C., Piro V.C., Wolff J., Antao T., Gladman S., Shlyakhter I., Hollander M., Mabon P., Shen W., Boekel J., Holtgrewe M., Bouvier D., de Ruiter J.R., Cabral J., Choudhary S., Harding N., Kleinkauf R., Enns E., Eggenhofer F., Brown J., Cock P.J.A., Timm H., Thomas C., Zhang X.-O., Chambers M., Turaga N., Seiler E., Brislawn C., Priesse E., Fallmann J., Kelleher J., Nguyen H., Parsons L., Fang Z., Stovner E.B., Stoler N., Ye S., Wohlers I., Farouni R., Freeberg M., Johnson J.E., Bargull M., Kensche P.R., Webster T.H., Eppley J.M., Stahl C., Rose A.S., Reynolds A., Wang L.-B., Garnier	Bioconda: Sustainable and comprehensive software distribution for the life sciences	2018	Nature Methods	275

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30.	SITE	Mohan S., Thirumalai C., Srivastava G.	Effective heart disease prediction using hybrid machine learning techniques	2019	IEEE Access	274
31.	SAS	Meghana S., Kabra P., Chakraborty S., Padmavathy N.	Understanding the pathway of antibacterial activity of copper oxide nanoparticles	2015	RSC Advances	273
32.	CNBT	Ghosh V., Mukherjee A., Chandrasekaran N.	Ultrasonic emulsification of food-grade nanoemulsion formulation and evaluation of its bactericidal activity	2013	Ultrasonics Sonochemistry	263
33.	SMEC	Manavalan E., Jayakrishna K.	A review of Internet of Things (IoT) embedded sustainable supply chain for industry 4.0 requirements	2019	Computers and Industrial Engineering	256
34.	CNBT	Kumari M., Khan S.S., Pakrashi S., Mukherjee A., Chandrasekaran N.	Cytogenetic and genotoxic effects of zinc oxide nanoparticles on root cells of Allium cepa	2011	Journal of Hazardous Materials	256
35.	SMEC	Kuppan P., Rajadurai A., Narayanan S.	Influence of EDM process parameters in deep hole drilling of Inconel 718	2008	International Journal of	251



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36.	SBST	Rajeshkumar S., Bharath L.V.	Mechanism of plant-mediated synthesis of silver nanoparticles – A review on biomolecules involved, characterisation and antibacterial activity	2017	Chemico-Biological Interactions	247
37.	SMEC	Veerachamy S., Yarlagadda T., Manivasagam G., Yarlagadda P.K.	Bacterial adherence and biofilm formation on medical implants: A review	2014	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	246
38.	SENSE, CC	Vigneshvar S., Sudhakumari C.C., Senthilkumaran B., Prakash H.	Recent advances in biosensor technology for potential applications - an overview	2016	Frontiers in Bioengineering and Biotechnology	235
39.	SCHEME	Smith R J B., Loganathan M., Shantha M.S.	A review of the water gas shift reaction kinetics	2010	International Journal of Chemical Reactor Engineering	234
40.	SENSE, CC	Jasmin M., Vigneshwaran T., Beulah Hemalatha S.	Design of power aware on chip embedded memory based FSM encoding in FPGA	2015	International Journal of Applied Engineering Research	233
41.	SBST	Renu K., V.G. A., P.B. T.P., Arunachalam S.	Molecular mechanism of doxorubicin-induced cardiomyopathy – An update	2018	European Journal of Pharmacology	232
42.	SENSE	Ramkumar B., Kittur H.M.	Low-power and area-efficient carry select adder	2012	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	229
43.	SCHEME	Koyande A.K., Chew K.W., Rambabu K., Tao Y., Chu D.-T., Show P.-L.	Microalgae: A potential alternative to health supplementation for humans	2019	Food Science and Human Wellness	227
44.	SITE	Manogaran G., Varatharajan R., Lopez D., Kumar P.M., Sundarasekar R., Thota C.	A new architecture of Internet of Things and big data ecosystem for secured smart healthcare monitoring and alerting system	2018	Future Generation Computer Systems	227
45.	SELECT	Mohamed Imran A., Kowsalya M.	A new power system reconfiguration scheme for power loss minimization and voltage profile enhancement using Fireworks Algorithm	2014	International Journal of Electrical Power and Energy Systems	225
46.	SBST	Siva R.	Status of natural dyes and dye-yielding plants in India	2007	Current Science	224
47.	SAS	Mohan Kumar K., Mandal B.K., Siva Kumar K., Sreedhara Reddy P., Sreedhar B.	Biobased green method to synthesise palladium and iron nanoparticles using Terminalia chebula aqueous extract	2013	Spectrochimica Acta - Part A: Molecular and Biomolecular	222

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48.	SCOPE	Wang J., Ju C., Gao Y., Sangaiah A.K., Kim G.-J.	A PSO based energy efficient coverage control algorithm for wireless sensor networks	2018	Computers, Materials and Continua	220
49.	SELECT	Saravanan S., Ramesh Babu N.	Maximum power point tracking algorithms for photovoltaic system - A review	2016	Renewable and Sustainable Energy Reviews	218
50.	CNBT	Santhoshkumar T., Rahuman A.A., Jayaseelan C., Rajakumar G., Marimuthu S., Kirthi A.V., Velayutham K., Thomas J., Venkatesan J., Kim S.-K.	Green synthesis of titanium dioxide nanoparticles using Psidium guajava extract and its antibacterial and antioxidant properties	2014	Asian Pacific Journal of Tropical Medicine	218
51.	SBST	Saravanan V.S., Madhaiyan M., Thangaraju M.	Solubilization of zinc compounds by the diazotrophic, plant growth promoting bacterium <i>Gluconacetobacter diazotrophicus</i>	2007	Chemosphere	218
52.	SAS, CC	Ezhilarasi A.A., Vijaya J.J., Kaviyarasu K., Maaza M., Ayeshamariam A., Kennedy L.J.	Green synthesis of NiO nanoparticles using <i>Moringa oleifera</i> extract and their biomedical applications: Cytotoxicity effect of nanoparticles against HT-29 cancer cells	2016	Journal of Photochemistry and Photobiology B: Biology	216
53.	SMEC	Safri S.N.A., Sultan M.T.H., Jawaid M., Jayakrishna K.	Impact behaviour of hybrid composites for structural applications: A review	2018	Composites Part B: Engineering	215
54.	SELECT	Adarsh B.R., Raghunathan T., Jayabarathi T., Yang X.-S.	Economic dispatch using chaotic bat algorithm	2016	Energy	214
55.	SMEC	Pappu A., Patil V., Jain S., Mahindrakar A., Haque R., Thakur V.K.	Advances in industrial prospective of cellulosic macromolecules enriched banana biofibre resources: A review	2015	International Journal of Biological Macromolecules	214
56.	SMBS, CC	Radha R., Sreekanth D.	Insight of magnesium alloys and composites for orthopedic implant applications – a review	2017	Journal of Magnesium and Alloys	211
57.	SELECT	Jayabarathi T., Raghunathan T., Adarsh B.R., Suganthan P.N.	Economic dispatch using hybrid grey wolf optimizer	2016	Energy	210
58.	SBST	Vimala R., Das N.	Biosorption of cadmium (II) and lead (II) from aqueous solutions using mushrooms: A comparative study	2009	Journal of Hazardous Materials	210
59.	SELECT	Mohamed Imran A., Kowsalya M., Kothari D.P.	A novel integration technique for optimal network reconfiguration and distributed generation placement in power distribution networks	2014	International Journal of Electrical Power and Energy Systems	209
60.	SBST	Rajeshkumar S., Naik P.	Synthesis and biomedical applications of Cerium oxide nanoparticles – A Review	2018	Biotechnology Reports	208

61.	CNBT	Ravindran A., Singh A., Raichur A.M., Chandrasekaran N., Mukherjee A.	Studies on interaction of colloidal Ag nanoparticles with Bovine Serum Albumin (BSA)	2010	Colloids and Surfaces B: Biointerfaces	208
62.	SCOPE	Li X., Niu J., Kumari S., Wu F., Sangaiah A.K., Choo K.-K.R.	A three-factor anonymous authentication scheme for wireless sensor networks in internet of things environments	2018	Journal of Network and Computer Applications	207
63.	SCE	Ealias A.M., Saravanakumar M.P.	A review on the classification, characterisation, synthesis of nanoparticles and their application	2017	IOP Conference Series: Materials Science and Engineering	207
64.	SCOPE	Samuel O.W., Asogbon G.M., Sangaiah A.K., Fang P., Li G.	An integrated decision support system based on ANN and Fuzzy_AHP for heart failure risk prediction	2017	Expert Systems with Applications	201
65.	SAS	Srinivas S., Gayathri R., Kothandapani M.	The influence of slip conditions, wall properties and heat transfer on MHD peristaltic transport	2009	Computer Physics Communications	201
66.	SELECT	Rajasekar N., Krishna Kumar N., Venugopalan R.	Bacterial Foraging Algorithm based solar PV parameter estimation	2013	Solar Energy	200
67.	SCOPE	Li X., Ibrahim M.H., Kumari S., Sangaiah A.K., Gupta V., Choo K.-K.R.	Anonymous mutual authentication and key agreement scheme for wearable sensors in wireless body area networks	2017	Computer Networks	199
68.	SCSE, CC	Sumaiya Thaseen I., Aswani Kumar C.	Intrusion detection model using fusion of chi-square feature selection and multi class SVM	2017	Journal of King Saud University - Computer and Information Sciences	199
69.	SELECT	Mohamed I.A., Kowsalya M.	Optimal size and siting of multiple distributed generators in distribution system using bacterial foraging optimization	2014	Swarm and Evolutionary Computation	199
70.	SBST	Hyde K.D., Xu J., Rapior S., Jeewon R., Lumyong S., Niego A.G.T., Abeywickrama P.D., Aluthmuhandiram J.V.S., Brahamanage R.S., Brooks S., Chaiyasen A., Chethana K.W.T., Chomnunti P., Chepkirui C., Chuankid B., de Silva N.I., Doilom M., Faulds C., Gentekaki E., Gopalan V., Kakumyan P., Harishchandra D., Hemachandran H., Hongsanan S., Karunarathna A., Karunarathna S.C., Khan	The amazing potential of fungi: 50 ways we can exploit fungi industrially	2019	Fungal Diversity	196

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71.	SENSE	Yadav J., Rani A., Singh V., Murari B.M.	Prospects and limitations of non-invasive blood glucose monitoring using near-infrared spectroscopy	2015	Biomedical Signal Processing and Control	196
72.	SBST	Das N., Das D.	Recovery of rare earth metals through biosorption: An overview	2013	Journal of Rare Earths	194
73.	SBST	Happy Agarwal, Menon S., Venkat Kumar S., Rajeshkumar S.	Mechanistic study on antibacterial action of zinc oxide nanoparticles synthesized using green route	2018	Chemico-Biological Interactions	191
74.	SAS	Kumar D.A., Palanichamy V., Roopan S.M.	Green synthesis of silver nanoparticles using Alternanthera dentata leaf extract at room temperature and their antimicrobial activity	2014	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	191
75.	SITE	Aswani Kumar Ch., Srinivas S.	Concept lattice reduction using fuzzy K-Means clustering	2010	Expert Systems with Applications	190
76.	CNBT	Sadiq I.M., Chowdhury B., Chandrasekaran N., Mukherjee A.	Antimicrobial sensitivity of Escherichia coli to alumina nanoparticles	2009	Nanomedicine: Nanotechnology, Biology, and Medicine	190
77.	SAS	Ganesamoorthy R., Sathiyam G., Sakthivel P.	Review: Fullerene based acceptors for efficient bulk heterojunction organic solar cell applications	2017	Solar Energy Materials and Solar Cells	189
78.	SMBS, CC	Gopinath A., Senthil Kumar M., Elayaperumal A.	Experimental investigations on mechanical properties of jute fiber reinforced composites with polyester and epoxy resin matrices	2014	Procedia Engineering	188

79.	SMEC	Arivazhagan N., Singh S., Prakash S., Reddy G.M.	Investigation on AISI 304 austenitic stainless steel to AISI 4140 low alloy steel dissimilar joints by gas tungsten arc, electron beam and friction welding	2011	Materials and Design	188
80.	SAS	Rajakumar G., Rahuman A.A., Roopan S.M., Khanna V.G., Elango G., Kamaraj C., Zahir A.A., Velayutham K.	Fungus-mediated biosynthesis and characterization of TiO <sub>2</sub> nanoparticles and their activity against pathogenic bacteria	2012	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	187
81.	SMEC	Ramanath H.S., Chua C.K., Leong K.F., Shah K.D.	Melt flow behaviour of poly- $\epsilon$ -caprolactone in fused deposition modelling	2008	Journal of Materials Science: Materials in Medicine	187
82.	SCOPE	Ishwarappa, Anuradha J.	A brief introduction on big data 5Vs characteristics and hadoop technology	2015	Procedia Computer Science	181
83.	SAS	Kumar R., Roopan S.M., Prabhakarn A., Khanna V.G., Chakroborty S.	Agricultural waste Annona squamosa peel extract: Biosynthesis of silver nanoparticles	2012	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	181
84.	SELECT	Jeyakumar D.N., Jayabarathi T., Raghunathan T.	Particle swarm optimization for various types of economic dispatch problems	2006	International Journal of Electrical Power and Energy Systems	179
85.	SAS	Mandlimath T.R., Gopal B.	Catalytic activity of first row transition metal oxides in the conversion of p-nitrophenol to p-aminophenol	2011	Journal of Molecular Catalysis A: Chemical	178
86.	SCOPE	Li X., Niu J., Bhuiyan M.Z.A., Wu F., Karuppiyah M., Kumari S.	A robust ECC-Based provable secure authentication protocol with privacy preserving for industrial internet of things	2018	IEEE Transactions on Industrial Informatics	177
87.	SELECT	Mohan G., Subashini M.M.	MRI based medical image analysis: Survey on brain tumor grade classification	2018	Biomedical Signal Processing and Control	177
88.	SELECT	Shivarama Krishna K., Sathish Kumar K.	A review on hybrid renewable energy systems	2015	Renewable and Sustainable Energy Reviews	177
89.	SBST	Menon S., KS S.D., Santhiya R., Rajeshkumar S., S V.K.	Selenium nanoparticles: A potent chemotherapeutic agent and an elucidation of its mechanism	2018	Colloids and Surfaces B: Biointerfaces	176
90.	SBST	Hirschey M.D., DeBerardinis R.J., Diehl A.M.E., Drew J.E., Frezza C., Green M.F., Jones L.W., Ko Y.H., Le A., Lea M.A., Locasale J.W., Longo V.D., Lyssiotis C.A., McDonnell E., Mehrmohamadi M., Michelotti G.,	Dysregulated metabolism contributes to oncogenesis	2015	Seminars in Cancer Biology	175

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91.	SBST	Logeswari P., Silambarasan S., Abraham J.	Ecofriendly synthesis of silver nanoparticles from commercially available plant powders and their antibacterial properties	2013	Scientia Iranica	174
92.	SBST	Santhoshkumar J., Rajeshkumar S., Venkat Kumar S.	Phyto-assisted synthesis, characterization and applications of gold nanoparticles – A review	2017	Biochemistry and Biophysics Reports	172
93.	SMEC	Annamalai M., Dhinesh B., Nanthagopal K., SivaramaKrishnan P., Isaac JoshuaRamesh Lalvani J., Parthasarathy M., Annamalai K.	An assessment on performance, combustion and emission behavior of a diesel engine powered by ceria nanoparticle blended emulsified biofuel	2016	Energy Conversion and Management	172
94.	SAS	Elango G., Roopan S.M.	Efficacy of SnO <sub>2</sub> nanoparticles toward photocatalytic degradation of methylene blue dye	2016	Journal of Photochemistry and Photobiology B: Biology	172
95.	CNBT	Sadiq I.M., Pakrashi S., Chandrasekaran N., Mukherjee A.	Studies on toxicity of aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) nanoparticles to microalgae species: Scenedesmus sp. and Chlorella sp.	2011	Journal of Nanoparticle Research	172
96.	SITE	Reddy G.T., Reddy M.P.K., Lakshmana K., Kaluri R., Rajput D.S., Srivastava G., Baker T.	Analysis of Dimensionality Reduction Techniques on Big Data	2020	IEEE Access	169
97.	SMEC	Rajeshkumar S., Liu Y., Zhang X., Ravikumar B., Bai G., Li X.	Studies on seasonal pollution of heavy metals in water, sediment, fish and oyster from the Meiliang Bay of Taihu Lake in China	2018	Chemosphere	169
98.	SMBS, CC	Gupta S.S., Sreeprasad T.S., Maliyekkal S.M., Das S.K., Pradeep T.	Graphene from sugar and its application in water purification	2012	ACS Applied Materials and Interfaces	169
99.	SELECT	Geethanjali P.	Myoelectric control of prosthetic hands: State-of-the-art review	2016	Medical Devices: Evidence and Research	168



100.	SMBS, CC	Maliyekkal S.M., Sreeprasad T.S., Krishnan D., Kouser S., Mishra A.K., Waghmare U.V., Pradeep T.	Graphene: A reusable substrate for unprecedented adsorption of pesticides	2013	Small	168
101.	SELECT	Esther B.P., Kumar K.S.	A survey on residential Demand Side Management architecture, approaches, optimization models and methods	2016	Renewable and Sustainable Energy Reviews	167
102.	SELECT	Deshkar S.N., Dhale S.B., Mukherjee J.S., Babu T.S., Rajasekar N.	Solar PV array reconfiguration under partial shading conditions for maximum power extraction using genetic algorithm	2015	Renewable and Sustainable Energy Reviews	166
103.	SENSE	Bavirisetti D.P., Dhuli R.	Two-scale image fusion of visible and infrared images using saliency detection	2016	Infrared Physics and Technology	163
104.	SAS, CC	Manikandan A., Kennedy L.J., Bououdina M., Vijaya J.J.	Synthesis, optical and magnetic properties of pure and Co-doped ZnFe 2O4 nanoparticles by microwave combustion method	2014	Journal of Magnetism and Magnetic Materials	163
105.	SBST	Dasgupta N., Ranjan S., Mundekkad D., Ramalingam C., Shanker R., Kumar A.	Nanotechnology in agro-food: From field to plate	2015	Food Research International	161
106.	CNBT	Anjali C., Sharma Y., Mukherjee A., Chandrasekaran N.	Neem oil ( <i>Azadirachta indica</i> ) nanoemulsion-a potent larvicidal agent against <i>Culex quinquefasciatus</i>	2012	Pest Management Science	160
107.	SITE	Kumar P.M., Lokesh S., Varatharajan R., Chandra Babu G., Parthasarathy P.	Cloud and IoT based disease prediction and diagnosis system for healthcare using Fuzzy neural classifier	2018	Future Generation Computer Systems	159
108.	SCOPE	Elhoseny M., Abdelaziz A., Salama A.S., Riad A.M., Muhammad K., Sangaiah A.K.	A hybrid model of Internet of Things and cloud computing to manage big data in health services applications	2018	Future Generation Computer Systems	159
109.	SCOPE, CC	Thangaramya K., Kulothungan K., Logambigai R., Selvi M., Ganapathy S., Kannan A.	Energy aware cluster and neuro-fuzzy based routing algorithm for wireless sensor networks in IoT	2019	Computer Networks	156
110.	SMBS, CC	Muralidharan V., Sugumaran V.	A comparative study of Naïve Bayes classifier and Bayes net classifier for fault diagnosis of monoblock centrifugal pump using wavelet analysis	2012	Applied Soft Computing Journal	156
111.	SELECT	Pillai D.S., Rajasekar N.	A comprehensive review on protection challenges and fault diagnosis in PV systems	2018	Renewable and Sustainable Energy Reviews	155
112.	SELECT	Prabaharan N., Palanisamy K.	A comprehensive review on reduced switch multilevel inverter topologies, modulation techniques and applications	2017	Renewable and Sustainable Energy Reviews	155

113.	SELECT	Ram J.P., Babu T.S., Dragicevic T., Rajasekar N.	A new hybrid bee pollinator flower pollination algorithm for solar PV parameter estimation	2017	Energy Conversion and Management	155
114.	SBST	Chakraborty C., Doss C.G.P., Bandyopadhyay S., Agoramoorthy G.	Influence of miRNA in insulin signaling pathway and insulin resistance: Micro-molecules with a major role in type-2 diabetes	2014	Wiley Interdisciplinary Reviews: RNA	155
115.	SCOPE	Darwish A., Hassanien A.E., Elhoseny M., Sangaiah A.K., Muhammad K.	The impact of the hybrid platform of internet of things and cloud computing on healthcare systems: opportunities, challenges, and open problems	2019	Journal of Ambient Intelligence and Humanized Computing	154
116.	SAS, CC	Angel Ezhilarasi A., Judith Vijaya J., Kaviyarasu K., John Kennedy L., Ramalingam R.J., Al-Lohedan H.A.	Green synthesis of NiO nanoparticles using Aegle marmelos leaf extract for the evaluation of in-vitro cytotoxicity, antibacterial and photocatalytic properties	2018	Journal of Photochemistry and Photobiology B: Biology	154
117.	SELECT	Sathish Kumar K., Jayabarathi T.	Power system reconfiguration and loss minimization for an distribution systems using bacterial foraging optimization algorithm	2012	International Journal of Electrical Power and Energy Systems	154
118.	SELECT	Sharmila A., Geethanjali P.	DWT Based Detection of Epileptic Seizure from EEG Signals Using Naive Bayes and k-NN Classifiers	2016	IEEE Access	153
119.	SMEC	Prashantha Kumar H.G., Anthony Xavier M.	Graphene reinforced metal matrix composite (GRMMC): A review	2014	Procedia Engineering	152
120.	SENSE, CC	Dubey R., Guruviah V.	Review of carbon-based electrode materials for supercapacitor energy storage	2019	Ionics	151
121.	SBST	Rajeshkumar S.	Anticancer activity of eco-friendly gold nanoparticles against lung and liver cancer cells	2016	Journal of Genetic Engineering and Biotechnology	150
122.	SENSE, CC	Jasmin M., Vigneswaran T.	Fuzzy controller for error control of on - Chip communication	2017	2017 International Conference on Algorithms, Methodology, Models and Applications in Emerging Technologies, ICAMMAET 2017	149
123.	SBST	Mukunthan K.S., Elumalai E.K., Patel T.N., Murty V.R.	Catharanthus roseus: A natural source for the synthesis of silver nanoparticles	2011	Asian Pacific Journal of Tropical Biomedicine	149
124.	SMBS, CC	Jegadeeshwaran R., Sugumaran V.	Fault diagnosis of automobile hydraulic brake system using statistical features and support vector machines	2015	Mechanical Systems and Signal Processing	148
125.	SELECT	Babu T.S., Ram J.P., Dragičević T., Miyatake M., Blaabjerg F.,	Particle swarm optimization based solar PV array reconfiguration of the maximum power extraction under	2018	IEEE Transactions on Sustainable Energy	147

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126.	CNBT	Ghosh V., Mukherjee A., Chandrasekaran N.	Eugenol-loaded antimicrobial nanoemulsion preserves fruit juice against, microbial spoilage	2014	Colloids and Surfaces B: Biointerfaces	147
127.	SMEC	Nantha Gopal K., Pal A., Sharma S., Samanchi C., Sathyanarayanan K., Elango T.	Investigation of emissions and combustion characteristics of a CI engine fueled with waste cooking oil methyl ester and diesel blends	2014	Alexandria Engineering Journal	147
128.	SCALE	Viswanadham B.V.S., Phanikumar B.R., Mukherjee R.V.	Swelling behaviour of a geofiber-reinforced expansive soil	2009	Geotextiles and Geomembranes	147
129.	SAS	Sathiyam G., Sivakumar E.K.T., Ganesamoorthy R., Thangamuthu R., Sakthivel P.	Review of carbazole based conjugated molecules for highly efficient organic solar cell application	2016	Tetrahedron Letters	145
130.	SELECT	Rajaram R., Sathish Kumar K., Rajasekar N.	Power system reconfiguration in a radial distribution network for reducing losses and to improve voltage profile using modified plant growth simulation algorithm with Distributed Generation (DG)	2015	Energy Reports	145
131.	SBST	Pragasam S.J., Venkatesan V., Rasool M.	Immunomodulatory and anti-inflammatory effect of p-coumaric acid, a common dietary polyphenol on experimental inflammation in rats	2013	Inflammation	145
132.	SBST	Kanmani P., Aravind J., Kamaraj M., Sureshbabu P., Karthikeyan S.	Environmental applications of chitosan and cellulosic biopolymers: A comprehensive outlook	2017	Bioresource Technology	144
133.	SAS, CC	Manikandan A., Judith Vijaya J., John Kennedy L., Bououdina M.	Structural, optical and magnetic properties of Zn1- xCuxFe2O4 nanoparticles prepared by microwave combustion method	2013	Journal of Molecular Structure	144
134.	SBST	Rajeshkumar S., Kumar S.V., Ramaiah A., Agarwal H., Lakshmi T., Roopan S.M.	Biosynthesis of zinc oxide nanoparticles using Mangifera indica leaves and evaluation of their antioxidant and cytotoxic properties in lung cancer (A549) cells	2018	Enzyme and Microbial Technology	143
135.	SCHEME	Rambabu K., Bharath G., Banat F., Show P.L., Cocolletzi H.H.	Mango leaf extract incorporated chitosan antioxidant film for active food packaging	2019	International Journal of Biological Macromolecules	142
136.	SAS	Ragavan R.V., Vijayakumar V., Kumari N.S.	Synthesis and antimicrobial activities of novel 1,5-diaryl pyrazoles	2010	European Journal of Medicinal Chemistry	142
137.	SAS	Srinivas S., Gayathri R.	Peristaltic transport of a Newtonian fluid in a vertical asymmetric channel with heat transfer and porous medium	2009	Applied Mathematics and Computation	142
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