



SCOPUS PAPER PUBLICATIONS - 2021

SI No	Authors	Title of the Paper	Name of the Journal
1	Vanapalli, K.R., Bhattacharya, J., Samal, B., Chandra, S., Medha, I., Dubey, B.K.	Inhibitory and synergistic effects on thermal behaviour and char characteristics during the co-pyrolysis of biomass and single-use plastics	Energy
2	Samal, B., Vanapalli, K.R., Dubey, B.K., Bhattacharya, J., Chandra, S., Medha, I.	Char from the co-pyrolysis of Eucalyptus wood and low-density polyethylene for use as high-quality fuel: Influence of process parameters	Science of the Total Environment
3	Hait, P., Sil, A., Choudhury, S.	Modified Damage Assessment Method for Reinforced Concrete Buildings	Practice Periodical on Structural Design and Construction
4	Shaw, S.K., Gangwar, A., Sharma, A., Alla, S.K., Kavita, S., Vasundhara, M., Meena, S.S., Maiti, P., Prasad, N.K.	Structural and magnetic properties of nanocrystalline equi-atomic spinel high-entropy oxide (AlCoFeMnNi) ₃ O ₄ synthesised by microwave assisted co-precipitation technique	Journal of Alloys and Compounds
5	Sekhar, P., Lydia, E.L., Elhoseny, M., Al-Akaidi, M., Selim, M.M., Shankar, K.	An effective metaheuristic based node localization technique for wireless sensor networks enabled indoor communication	Physical Communication
6	Samal, B., Vanapalli, K.R., Dubey, B.K., Bhattacharya, J., Chandra, S., Medha, I.	Influence of process parameters on thermal characteristics of char from co-pyrolysis of eucalyptus biomass and polystyrene: Its prospects as a solid fuel	Energy



7	Shaw, S.K., Kailashiya, J., Gangwar, A., Alla, S.K., Gupta, S.K., Prajapat, C.L., Meena, S.S., Dash, D., Maiti, P., Prasad, N.K.	γ -Fe ₂ O ₃ nanoflowers as efficient magnetic hyperthermia and photothermal agent	Applied Surface Science
8	Pustokhina, I.V., Pustokhin, D.A., Lydia, E.L., Elhoseny, M., Shankar, K.	Energy Efficient Neuro-Fuzzy Cluster based Topology Construction with Metaheuristic Route Planning Algorithm for Unmanned Aerial Vehicles	Computer Networks
9	Sahu, H.K., Sahu, S.K., Prasad, R.	Analysis of SWIPT based dual-hop AF relay with SSK modulation over Nakagami-m fading channel	AEU - International Journal of Electronics and Communications
10	Ravi Sankar, R.S., Venkatesh, A., Kollipara, D.	Adaptive hysteresis band current control of grid connected PV inverter	International Journal of Electrical and Computer Engineering
11	Sujitha, B., Parvathy, V.S., Lydia, E.L., Rani, P., Polkowski, Z., Shankar, K.	Optimal deep learning based image compression technique for data transmission on industrial Internet of things applications	Transactions on Emerging Telecommunications Technologies
12	Gangwar, A., Alla, S.K., Prasad, N.K.	RF induction heating and in-vitro study of citrate functionalized Zr-substituted Fe ₃ O ₄ nanoparticles with human lung adenocarcinoma (A549) cell	Physica B: Condensed Matter
13	Adilakshmi, S., Shankar, N.R.	A new ranking in hexagonal fuzzy number by centroid of centroids and application in fuzzy critical path	Reliability: Theory and Applications
14	Ravi Sankar, R.S., Deepika, K.K., Satyanarayana, A.V.	Harmonic stability analysis of multi- paralleled 3-phase pv inverters tied to grid	International Journal of Power Electronics and Drive Systems
15	Deepa, S., Vijay Sai, K., Rao, D.R., Madhusudhana Rao, K., Venkataramaniah, K.	EC-decay of ¹³³ Ba revisited by electron- gamma spectroscopy	Journal of Radioanalytical and Nuclear Chemistry



16	Reddy, S.H.K., Vasudevan, A., Rajagopal, P., Balasubramaniam, K.	Scattering of Higher Order Mode Clusters (HOMC) from surface breaking notches in plates with application to higher temperature gradients	NDT and E International
17	Hanumantharao, R., Kalainathan, S.	Microhardness and SHG efficiency of pure and picric acid-added KDP crystals	Bulletin of Materials Science
18	Kethavathu, S.N., Singam, A., Muthusamy, P.	Compact symmetrical slot coupled linearly polarized two/four/eight element MIMO bowtie DRA for WLAN applications	AEU - International Journal of Electronics and Communications
19	Gangu, K.K., JVSK, V.K., T, S.G., Maddila, S., Jonnalagadda, S.B.	Preparation and characterisation of new Ti/Fluorapatite/MWCNTs ternary nanocomposite and its catalytic activity in the synthesis of pyrazolo[3,4-b]quinoline moieties	Materials Today Communications
20	Mahanty, M., Swathi, K., Teja, K.S., Kumar, P.H., Sravani, A.	Forecasting the spread of COVID-19 pandemic with prophet	Revue d'Intelligence Artificielle
21	Alla, S.K., Gangwar, A., Shaw, S.K., Viswanadh, M.K., Neogi, K., Muthu, M.S., Gupta, N., Meena, S.S., Kollu, P., Mandal, R.K., Prasad, N.K.	Physical and in-vitro evaluation of pure and substituted $MxCe_{1-x}O_2$ (M = Co, Fe or Ti and x = 0.05) magnetic nanoparticles	Ceramics International
22	Guru, T.V.S.P.V.S., Krishna, V., Rajesh, E.	Efficacy of cobalt-incorporated mesoporous silica toward photodegradation of Alizarin Red S and its kinetic study	Journal of the Chinese Chemical Society
23	Korrai, S., Gangu, K.K., Prasada Rao, P.V.V., Jonnalagadda, S.B.	A study on assessment of vulnerability of seawater intrusion to groundwater in coastal areas of Visakhapatnam, India	Environment, Development and Sustainability
24	Soujanya, M.L., Laxmi, P.V., Sirisha, E.	Impact of negative arrivals and multiple working vacation on dual supplier inventory model with finite lifetimes	Reliability: Theory and Applications
25	Laxmi Lydia, E., Arokiaraj Jovith, A., Francis Saviour Devaraj, A., Seo, C., Joshi, G.P.	Green energy efficient routing with deep learning based anomaly detection for internet of things (IoT) communications	Mathematics



26	Vivekananda, K.V., Dhanalakshmi, B., Rao, B.P., Rao, P.S.V.S.	Enhanced magnetoelectric coupling in $\text{Bi}_{0.95}\text{Mn}_{0.05}\text{FeO}_3\text{-Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ nanocomposites for spintronic applications	Applied Physics A: Materials Science and Processing
27	Koutavarapu, R., Reddy, C.V., Syed, K., Reddy, K.R., Shetti, N.P., Aminabhavi, T.M., Shim, J.	Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and photoelectrocatalytic water oxidation	Chemosphere
28	Jayanthi, J., Lydia, E.L., Krishnaraj, N., Jayasankar, T., Babu, R.L., Suji, R.A.	An effective deep learning features based integrated framework for iris detection and recognition	Journal of Ambient Intelligence and Humanized Computing
29	Krishnaraj, N., Elhoseny, M., Lydia, E.L., Shankar, K., ALDabbas, O.	An efficient radix trie-based semantic visual indexing model for large-scale image retrieval in cloud environment	Software - Practice and Experience
30	Prasad, K.L.S., Devi, S.S., Deekshitulu, G.V.S.R.	On a class of Lorentzian para-Kenmotsu manifolds admitting the Weyl-projective curvature tensor of type (1,3)	Italian Journal of Pure and Applied Mathematics
31	Sahu, H.K., Padhan, A.K., Sahu, P.R.	Smart Devices Performance with SSK- BPSK Modulation and Energy Harvesting in Smart Cities	IEEE Communications Letters
32	Gopi, D., Vadaboyina, A.R., Dabbakuti, J.R.K.K.	DGS based monopole circular-shaped patch antenna for UWB applications	SN Applied Sciences
33	Venkataiah, S., Chandra, S.V.J., Chalapathi, U., Ramana, C., Uthanna, S.	Oxygen partial pressure influenced stoichiometry, structural, electrical, and optical properties of DC reactive sputtered hafnium oxide films	Surface and Interface Analysis
34	Lydia, E.L., Raj, J.S., Pandi Selvam, R., Elhoseny, M., Shankar, K.	Application of discrete transforms with selective coefficients for blind image watermarking	Transactions on Emerging Telecommunications Technologies
35	Dash, S., Sarojini, L.	Analysis and charge control of lithium ion battery with application for off-grid PV system	Journal of Physics: Conference Series



36	Raju, K.N., Sirisha, A., Nanaji, U., Sharma, S.K., Kumar, C.R.	An adaptive hello interval for AODV through ANFIS to improve the performance of MANETs	International Journal of Knowledge-Based and Intelligent Engineering Systems
37	Gali, V., Varaprasad, M.V.G., Gupta, S.K., Gupta, M.	Performance investigation of multifunctional grid connected PV interleaved inverter with power quality enhancement	Energy Systems
38	Mahanty, M., Kumar, P.H., Sushma, M., Chand, I.T., Abhishek, K., Chowdary, C.S.R.	A Comparative Study on Construction of 3D Objects from 2D Images	Lecture Notes in Networks and Systems
39	Pathan, A., Rao, N.T., Satyanarayana, M., Bhattacharyya, D.	Artificial Intelligence-Based Vehicle Recognition Model to Control the Congestion Using Smart Traffic Signals	Lecture Notes in Networks and Systems
40	Dinesh Reddy, B., Ganiya, R.K., Thirupathi Rao, N., Kim, H.-J.	An IoT Model-Based Traffic Lights Controlling System	Lecture Notes in Networks and Systems
41	Rajendra Kumar, G., Dinesh Reddy, B., Thirupathi Rao, N., Bhattacharyya, D.	Performance Analysis of a Simulation-Based Communication Network Model with NS2 Simulator	Lecture Notes in Networks and Systems
42	Meeravali, S., Thirupathi Rao, N., Bhattacharyya, D., Kim, T.-H.	A Steady-State Analysis of a Forked Communication Network Model	Lecture Notes in Networks and Systems
43	Doppala, B.P., NagaMallik Raj, S., Stephen Neal Joshua, E., Thirupathi Rao, N.	Automatic Determination of Harassment in Social Network Using Machine Learning	Lecture Notes in Networks and Systems
44	Sushma, D., Satyanarayana, K.V., Thirupathi Rao, N., Bhattacharyya, D., Kim, T.-H.	An Automatic Perception of Blood Sucker on Thin Blood Splotch Using Graphical Modeling Methods	Lecture Notes in Networks and Systems
45	Archana Acharya, T., Veda Upasan, P.	A Study on Techniques of Soft Computing for Handling Traditional Failure in Banks	Lecture Notes in Networks and Systems



46	Chandra, K.R., Donga, M., Budumuru, P.R.	Reversible Data Hiding Using Secure Image Transformation Technique	Lecture Notes in Networks and Systems
47	Swathi, K., Vamsi, B., Rao, N.T.	A Deep Learning-Based Object Detection System for Blind People	Lecture Notes in Networks and Systems
48	Thirupathi Rao, N., Asish Vardhan, K., Srinivasa Rao, P., Bhattacharyya, D., Kim, H.-J.	A Detailed Study on Optimal Traffic Flow in Tandem Communication Networks	Lecture Notes in Networks and Systems
49	Vasantharaj, A., Rani, P.S., Huque, S., Raghuram, K.S., Ganeshkumar, R., Shafi, S.N.	Automated Brain Imaging Diagnosis and Classification Model using Rat Swarm Optimization with Deep Learning based Capsule Network	International Journal of Image and Graphics
50	Kaur, I., Lydia, E.L., Nassa, V.K., Shrestha, B., Nebhen, J., Malebary, S., Joshi, G.P.	Generative Adversarial Networks with Quantum Optimization Model for Mobile Edge Computing in IoT Big Data	Wireless Personal Communications
51	Bhuvaneshwari, N., Suneetha, P., Kethavathu, S.N., Pachiyaannan, M.	Recent trends in circular polarization antennas with various feeding structure: A review	Telecommunications and Radio Engineering (English translation of Elektrosvyaz and Radiotekhnika)
52	Ramisetty, U.M., Chennupati, S.K., Gundavarapu, V.N.K.	Design of Training Sequences for Multi User—MIMO with Accurate Channel Estimation Considering Channel Reliability Under Perfect Channel State Information Using Cuckoo Optimization	Journal of Electrical Engineering and Technology
53	Laxmi Lydia, E., Moses Gummadi, J., Ranjan Pattanaik, C., Prasad, B., Usha Kumari, C., Daniel, R.	Collective Examinations of Documents on COVID-19 Peril Factors Through NLP	Lecture Notes in Electrical Engineering
54	Laxmi Lydia, E., Moses Gummadi, J., Ranjan Pattanaik, C., Krishna Mohan, A., Jaya Suma, G., Daniel, R.	Interdependence in Artificial Intelligence to Empower Worldwide COVID-19 Sensitivity	Lecture Notes in Electrical Engineering



55	Mohammad, M.N., Kumari, Ch.U., Murthy, A.S.D., Jagan, B.O.L., Saikumar, K.	Implementation of online and offline product selection system using FCNN deep learning: Product analysis	Materials Today: Proceedings
56	Laxmi Lydia, E., Gummadi, J.M., Pattanaik, C.R., Jaya Suma, G., Krishna Mohan, A., Daniel, R.	Global Integration and Distribution of Data Through Machine Learning for COVID-19	Lecture Notes in Electrical Engineering
57	Reddy, M.P.P., Kumari, Ch.U., Kishore, P., Swaraja, K., Lydia, E.L.	Design of automated identification of alcoholic drivers in intoxicated state	Materials Today: Proceedings
58	Sahu, H.K.	Performance Analysis of Energy Harvesting based Smart Grid Dynamic HAN with SSK Modulation	IEEE Communications Letters
59	Seetharam, R., Madhukar, P., Yoganjaneyulu, G., Subbu, S.K., Davidson, M.J.	Mathematical Models to Predict Flow Stress and Dynamically Recrystallized Grain Size of Deformed AA7150-5 wt% B4C Composite Fabricated Using Ultrasonic-Probe Assisted Stir Casting Process	Metals and Materials International
60	Reddy, M.K., Srinivasa Rao, P., Laxmi Lydia, E.	WQPSO Method uses K-means-based Consensus Clustering in BigData	Advances in Dynamical Systems and Applications
61	Yoganjaneyulu, G., Vigneshwaran, S., Palanivel, R., Alblawi, A., Rasheed, M.A., Laubscher, R.F.	Effect of Tool Rotational Speed on the Microstructure and Associated Mechanical Properties of Incrementally Formed Commercially Pure Titanium	Journal of Materials Engineering and Performance
62	Ray, A., Tiwari, A., Chandra Mouli, D.	Early screening of COVID-19 from chest CT using deep learning technique	Lecture Notes on Data Engineering and Communications Technologies
63	Srinivasa Rao, M., Sekhar, C., Bhattacharyya, D.	Comparative Analysis of Machine Learning Models on Loan Risk Analysis	Advances in Intelligent Systems and Computing
64	Sekhar, C., Rao, M.S., Nayani, A.S.K., Bhattacharyya, D.	Emotion Recognition Through Human Conversation Using Machine Learning Techniques	Advances in Intelligent Systems and Computing



65	Vamsi, B., Doppala, B.P., Thirupathi Rao, N., Bhattacharyya, D.	Comparative Analysis of Prevalent Disease by Preprocessing Techniques Using Big Data and Machine Learning: An Extensive Review	Advances in Intelligent Systems and Computing
66	NagaMallik Raj, S., Dinesh Reddy, B., Thirupathi Rao, N., Bhattacharyya, D.	Secure Information Transmission in Bunch-Based WSN	Advances in Intelligent Systems and Computing
67	Sushma, D., Thirupathi Rao, N., Bhattacharyya, D.	A Comparative Study on Automated Detection of Malaria by Using Blood Smear Images	Advances in Intelligent Systems and Computing
68	Ray, A., Bhattacharyya, D.	Performance Analysis of Different Classification Techniques to Design the Predictive Model for Risk Prediction and Diagnose Diabetes Mellitus at an Early Stage	Advances in Intelligent Systems and Computing
69	Srinivas, P., Pillala, P., Thirupathi Rao, N., Bhattacharyya, D.	Performance Investigation of Cloud Computing Applications Using Steady-State Queuing Models	Advances in Intelligent Systems and Computing
70	Ramya Sree, Y., Sudharani, B., Sravan Kumar, K., Prasad, D.J.V., Durga Prasad, C.	Harmony Search Optimization-Based Direct Estimation of Harmonic Components	Lecture Notes in Electrical Engineering
71	Gupta, S., Rao, K.V., Dubba, N., Subrahmanyam, K.	Risk Analysis in Movie Recommendation System Based on Collaborative Filtering	Advances in Intelligent Systems and Computing
72	Dhanunjayarao, B.N., Sanivada, U.K., Swamy Naidu, N.V., Fangueiro, R.	Effect of graphite particulate on mechanical characterization of hybrid polymer composites	Journal of Industrial Textiles
73	Singuluri, I., Ravishankar, N.	A new ranking approach for finding optimum solution for iftp of type-1	Advances in Mathematics: Scientific Journal
74	Chandra Sekhar, B., Dhana Lakshmi, B., Ratna Raju, M., Ramesh, S., Subba Rao, P.S.V., Parvatheeswara Rao, B.	Synthesis, structural and microstructural properties of CBN ferroelectric ceramics	Ferroelectrics



75	Kumari, Ch.U., Murthy, A.S.D., Prasanna, B.L., Reddy, M.P.P., Panigrahy, A.K.	An automated detection of heart arrhythmias using machine learning technique: SVM	Materials Today: Proceedings
76	Ramisetty, U.M., Chennupati, S.K.	Performance Analysis of Multi User Mimo System With Successive Hybrid Information and Energy Transfer Beamformer	Wireless Personal Communications
77	Ramesh, P., Ravi Sankar, R.S.	Analysis of Quality, Installation of Power Supplied by APSPDCL to Urban and Rural Areas	Lecture Notes in Electrical Engineering
78	Ramesh, P., Ravi Sankar, R.S., Deepika, K.K.	Analysis of the Consumers' Satisfaction in Andhra Pradesh, Services Provided by Southern Power Distribution Company Limited	Lecture Notes in Electrical Engineering
79	Satyanarayana, V.S.V., Gopala Rao, L.V.V., Sateesh, B., Mohan Rao, N.	Computation of passive suspension parameters for improvement of vehicle ride quality based on stochastic optimal controller with a look-ahead preview	Noise and Vibration Worldwide
80	Pavani Srikavya, B., Srinivasa Rao, P., Kamaluddin, S.	Lightweight Materials for Engine Cylinder Blocks/Liners—A Critical Review	Lecture Notes in Mechanical Engineering
81	Venkatesh, P.H.J., Viswanath, M.S.R., Meher, A.K., Shilwant, R.	Fabrication of Low Temperature Stage for Atomic Force Microscope	Lecture Notes in Mechanical Engineering
82	Meher, A.K., Venkatesh, P.H.J., Viswanath, M.S.R., Naga Raju, J., Kumar, A.	Applicability of Empirical Correlations for Critical Heat Flux in Transfer Line Cool-Down Boiling	Lecture Notes in Mechanical Engineering
83	Venkatesh, P.H.J., Viswanadha, V., Sravan Kumar, K., Ramesh, K.	Design of Pico Hydro Power Plant Using an Impulse Turbine	Lecture Notes in Mechanical Engineering
84	Sowjanya, C., Nagabhushana Rao, V., Pavani Sri Kavya, B.	Optimum Design and Analysis of Bell Crank Lever for an Automobile	Lecture Notes in Mechanical Engineering



85	Rajvee, M.H., Jagadeesh Chandra, S.V., Rajesh Kumar, P., Ramana, C.H.V.V., Neelama, K., Dubey, R.S.	Synthesis and analysis of zirconium titanate thin films by using sol-gel method	Biointerface Research in Applied Chemistry
86	Keerthi Nayani, A.S., Sekhar, C., Srinivasa Rao, M., Venkata Rao, K.	Enhancing image resolution and denoising using autoencoder	Lecture Notes on Data Engineering and Communications Technologies
87	Hait, P., Sil, A., Choudhury, S.	Prediction of global damage index of reinforced concrete building using artificial neural network	International Journal for Computational Methods in Engineering Science and Mechanics
88	Prasamsa, K.V., Kameswari, P.A., Raju, K.N., Surendra, T., Devi, D.M.	A key exchange algorithm with binary quadratic forms to design complex security framework	Advances in Mathematics: Scientific Journal
89	Manne, S., Lydia, E.L., Pustokhina, I.V., Pustokhin, D.A., Parvathy, V.S., Shankar, K.	An intelligent energy management and traffic predictive model for autonomous vehicle systems	Soft Computing
90	Meeravali, S., Bhattacharyya, D., Rao, N., Hu, Y.-C.	Performance analysis of an improved forked communication network model	Connection Science
91	Ramana, C.V.V., Jagadeesh Chandra, S.V., Dubey, R.S., Eswara Rao, B.	Solution-based spin cast-processed O-shaped memory devices	Journal of Materials Science: Materials in Electronics
92	Yoganjaneyulu, G., Sathiya Narayanan, C.	Application of Entropy—Deng's Similarity Approach for Optimization of Single-Point Incremental Forming Process Parameters of Titanium Grade 2 Sheets	Lecture Notes in Mechanical Engineering
93	Srinivasarao, P., Peddakapu, K., Mohamed, M.R., Deepika, K.K., Sudhakar, K.	Simulation and experimental design of adaptive-based maximum power point tracking methods for photovoltaic systems	Computers and Electrical Engineering



94	Sahu, H.K.	SSK modulated WPCN with Euclidean distance based selection combining receiver	Wireless Networks
95	Sukanya, Y., Uma, D., Nageswara Rao, P.A., Das, R.P.	A Novel Design of Multiband Monopole Antenna Loaded with Complementary Split Ring Resonator	Lecture Notes in Networks and Systems
96	Sharma, S.K., Khuntia, B.	Service layer security architecture for iot using biometric authentication and cryptography technique	Advances in Intelligent Systems and Computing
97	Malathi, S., Aruna, S., Naik, K.S., Bharani, B.	Design of two slot multiple input multiple output uwb antenna for wimax and wlan applications	Advances in Intelligent Systems and Computing
98	Vinnakoti, S., Vasamsetti, V.L.	Performance Analysis of Multilevel Converter with Reduced Number of Active Switches	Lecture Notes in Electrical Engineering
99	Pavani, T., Naga Jyothi, A., Ushasree, A., Rajasree Rao, Y., Usha Kumari, C.	Design of Metamaterial Loaded Dipole Antenna for GPR	Lecture Notes in Electrical Engineering