Authors	Title	Year	Source title	Volume	Issue	Art. No.	Page start	Page end	Cited by	DOI	Link	Document Type
Ravindra, V.; Mohapatra, P.K.; Panda, R.N.; Rout, S.K.; Samantaray, R.	Advanced Nonlinear Channel Equalization Using LSTM-SVM: A Machine Learning Approach	2025	Wireless Personal Communications	145	03-Apr		793	818	0	10.1007/s11277-025-11875-4	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105023578243&doi=10.1007%2Fs11277-025-11875-4&partnerID=40&md5=ebd59e7dfe08fdcc5f4e081ee783d8bd	Article
Mahapatra, P.; Parida, T.K.; Swain, K.	Study the influence of thermophoretic effect buoyancy force in prandtl fluid flow on a stretching sheet in presence of joule heating and viscous dissipation	2025	Journal of Thermal Engineering	11	6		1647	1657	0	10.14744/thermal.0001031	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105023313922&doi=10.14744%2Fthermal.0001031&partnerID=40&md5=981ccc8169df0e32e5c434d92181ce53	Article
Das, A.K.; Acharya, A.K.; Parida, B.; Panda, A.K.; Yao, Z.; Kumar, S.	Sustainable combustion and pollution cost analysis of diesel engine fueled with waste plastics pyrolysis oil and advanced additives: An experimental investigation on emission reduction potential	2025	Thermal Science and Engineering Progress	67		104136			0	10.1016/j.tsep.2025.104136	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105016881848&doi=10.1016%2Fj.tsep.2025.104136&partnerID=40&md5=2d6924573fb8159f9bc901fe8fbf0ed8	Article
Karmakar, S.; Sahoo, S.; Mohanty, H.S.; Boddhula, R.; Reddy, G.N.; Mohapatra, S.R.; Mahato, K.K.; Anirban, S.; Nayak, P.; Ranjith Kumar, G.R.;	Unraveling electrical transport and dielectric relaxation in P2-Type NaMg0.25Mn0.75O2: A promising layered oxide for high-temperature electronics	2025	Ceramics International	51	21		32958	32966	0	10.1016/j.ceramint.2025.05.030	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004809827&doi=10.1016%2Fj.ceramint.2025.05.030&partnerID=40&md5=8e097ddaeaecc7e8d466afa613c988a7	Article
Maharana, S.; Maharana, S.K.; Vijayakumar, R.	Neural Network based Strength Assessment of Epoxy-Graphene Oxide Composites for Unmanned Aerial Vehicle Applications	2025	International Journal of Vehicle Structures and Systems	17	2		189	192	0	10.4273/ijvss.17.2.02	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105012023631&doi=10.4273%2Fijvss.17.2.02&partnerID=40&md5=b27e8259c6d6d2ae232ba2a2a4ec2d72	Article
Mohan, I.; Das, A.K.; Prakash, R.; Kumar, S.	Prediction modeling using artificial neural network (ANN) for the performance and emission characteristics of catalytic co-pyrolytic fuel blended with diesel in a CI engine	2025	Environmental Science and Pollution Research	32	32		19420	19433	13	10.1007/s11356-023-30209-0	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85173665979&doi=10.1007%2Fs11356-023-30209-0&partnerID=40&md5=15599913d5e451fa1113542d0e1f60e2	Article
Jena, M.C.; Mishra, S.K.; Moharana, H.S.	Environmental impact assessment of cement plants and estimation of pollutant load on environment in India	2025	International Journal of System Assurance Engineering and Management	16	7		2343	2354	0	10.1007/s13198-025-02802-8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105011348011&doi=10.1007%2Fs13198-025-02802-8&partnerID=40&md5=c13d166756c6b9d6e291b0381c368368	Article
Sasmita, H.; Manoranjan, M.; Prasad, T.U.	Removal of Sulphate from contaminated water bodies of River Rushikulya using Natural adsorbent	2025	Research Journal of Chemistry and Environment	29	6		75	83	0	10.25303/296rjce07508 3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004262397&doi=10.25303%2F296rjce075083&partnerID=40&md5=533cbc798ffb054656cdc3c6e3977826	Article
Kumar, V.P.; Pattanaik, S.R.; Kumar, V.V.S.	An automated brain tumor segmentation and classification using adaptive Bayesian fuzzy clustering	2025	Applied Soft Computing	175		113061			1	10.1016/j.asoc.2025.113061	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105002374930&doi=10.1016%2Fj.asoc.2025.113061&partnerID=40&md5=23990a191144d395a8a3e2b5145cb00c	Article

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Kanchi, S.P.; Sundari, S.; Rao, C.V.S.P.; Raju, S.	Application of Response Surface Methodology and Machine Learning Approaches to Predict Porosity and Compression Strength of Selective Laser-Sintered Polyamide-12 Scaffold Parts	2025	Journal of Materials Engineering and Performance	34	7		6274	6283	2	10.1007/s11665-024-09588-z	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85194529206&doi=10.1007%2Fs11665-024-09588-z&partnerID=40&md5=87128b960c09813ab0b53c70b343a814	Article
Das, S.K.; Pattanaik, S.R.; Mohapatra, P.K.; Rout, S.K.; Almazyad, A.S.; Jasser, M.B.; Xiong, G.; Mohamed, A.W.	Equalizer Design: HBOA-DE-trained radial basis function neural networks	2025	Egyptian Informatics Journal	29		100617			1	10.1016/j.eij.2025.100617	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85216020352&doi=10.1016%2Fj.eij.2025.100617&partnerID=40&md5=dba5890ae9fd7b41c1fd1611854ced1e	Article
Kumar, V.P.; Pattanaik, S.R.; Kumar, V.V.S.	A Heuristic Strategy Assisted Deep Learning Models for Brain Tumor Classification and Abnormality Segmentation	2025	Computational Intelligence	41	1	e70018			2	10.1111/coin.70018	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85215263113&doi=10.1111%2Fcoin.70018&partnerID=40&md5=ac54aae00e96c12a9b94f4d8bd696abf	Article
Pattanaik, P.P.; Pradhan, S.; Bej, A.; Pradhan, G.	Solid waste derived heterogeneous catalysts for synthesis of sustainable glycerol carbonate from glycerol	2025	Biomass and Bioenergy	193		107598			7	10.1016/j.biombioe.2025.107598	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85214578221&doi=10.1016%2Fj.biombioe.2025.107598&partnerID=40&md5=8e1568fd222096aa7d2b548e173451e5	Review
Thumma, T.; Ahammad, N.A.; Swain, K.; Animasauan, I.L.; Mishra, S.R.	Increasing effects of Coriolis force on the cupric oxide and silver nanoparticles based nanofluid flow when thermal radiation and heat source/sink are significant	2025	Waves in Random and Complex Media	35	1		1333	1350	14	10.1080/17455030.2022.2032471	https://www.scopus.com/inward/record.uri?eid=2-s2.0-86000387727&doi=10.1080%2F17455030.2022.2032471&partnerID=40&md5=ba34566acef08d68d357b0815381b7b1	Article
Venugopal, M.M.; Hiremath, M.K.; Srikanth, H.V.; Maharana, S.K.	Experimental Prediction of Air Pollutant Dispersion in a Simplified Built Environment	2025	Lecture Notes in Civil Engineering	416 LNCE			139	144	0	10.1007/978-981-97-7846-1_14	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85211822863&doi=10.1007%2F978-981-97-7846-1_14&partnerID=40&md5=f7fa95c696872e5fd9db69d050823200	Conference paper
Das, A.K.; Biswal, R.; Rout, S.K.; Mangaraj, A.; Baral, A.	Machine Learning Based Prediction of Liquid Fuel Production by Co-pyrolysis of Medical Waste Plastics and Delonix Regia	2025	Lecture Notes in Civil Engineering	416 LNCE			265	273	0	10.1007/978-981-97-7846-1_26	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85211785036&doi=10.1007%2F978-981-97-7846-1_26&partnerID=40&md5=a8420591af11d3276bd64aab9f3437ea	Conference paper
Das, A.K.; Das, P.P.; Samal, P.; Dash, S.K.; Samantaray, R.K.	Optimization of Biogas Production Through Anaerobic Co-digestion of Food Wastes and Chicken Manure: A Kinetic Study and Economic Feasibility	2025	Lecture Notes in Civil Engineering	416 LNCE			255	263	0	10.1007/978-981-97-7846-1_25	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85211779340&doi=10.1007%2F978-981-97-7846-1_25&partnerID=40&md5=f04a9eb66d7d62f6bae1b9e5421edbd5	Conference paper
Sahu, S.; Acharya, D.; Das, A.K.; Nayak, P.S.	An efficient sigmoidal class topper optimization-based PID controller for human knee exoskeleton system	2025	International Journal of Dynamics and Control	13	1		1	12	0	10.1007/s40435-024-01521-5	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85209800747&doi=10.1007%2Fs40435-024-01521-5&partnerID=40&md5=48b2f408716aeed37427a0cd5ee9ddfb	Article

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Thumma, T.; Mishra, S.R.; Swain, K.; Khan, M.; Khan, N.M.	Effect of dissipation energy on magnetohydrodynamic 3D stagnation point flow of micropolar nanofluid past a sinusoidal circular cylinder	2025	Waves in Random and Complex Media	35	5		8999	9024	12	10.1080/17455030.2022.2102271	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134802746&doi=10.1080%2F17455030.2022.2102271&partnerID=40&md5=1220d780c5870b5516925ee92da148f1	Article
Kumar, K.S.; Rout, S.K.; Panda, S.K.; Mohapatra, P.K.	Optimizing Node Localization in Wireless Sensor Networks Using Hybrid Red Fox Optimization-Genetic Algorithm	2025							0	10.1109/ICAIET65052.2025.11210969	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105024937558&doi=10.1109%2FICAIET65052.2025.11210969&partnerID=40&md5=85ce220960b5b886ce77a8e2cf55e92d	Conference paper
Parida, P.; Swain, K.; Islahi, H.	Analysis of buoyancy force, Brownian motion and thermophoretic effect in assisting and opposing flow of Prandtl fluid in presence of Joule heating and viscous dissipation	2025					37	58	0	10.1201/9781003642169-3	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105024616409&doi=10.1201%2F9781003642169-3&partnerID=40&md5=73121c02c7af6dc4134e0b8181a0993a	Book chapter
Padhy, S.; Das, A.K.; Panda, A.K.; Gouda, N.	Utilizing co-pyrolysis oil from waste polypropylene and Calophyllum inophyllum seed in diesel engines: combustion, engine performance, and emission analysis	2025	Environmental Science and Pollution Research						0	10.1007/s11356-025-37255-w	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105024090848&doi=10.1007%2Fs11356-025-37255-w&partnerID=40&md5=663c78e393d7165edbc2577618d9f05a	Article
Nayak, P.; Chandana Mohapatra, S.S.; Polai, B.; Karmakar, S.	Hydrothermally synthesized snow-flake-like MnCo2O4supercapacitor material: Structural, electrical and magnetic study	2025	Ceramics International						0	10.1016/j.ceramint.2025.11.119	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105023874817&doi=10.1016%2Fj.ceramint.2025.11.119&partnerID=40&md5=341d497467803f2738ad1036b6ccb333	Article
Das, A.K.; Mohapatra, H.; Mishra, S.R.; Sahoo, S.S.	Exploring the synergistic potential of a hybrid PV-biogas power generation system for smart city electrification by sustainable thermo-exergetic and environmental analysis using a forest machine learning approach	2025	Environmental Science and Pollution Research						0	10.1007/s11356-025-37237-y	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105023049801&doi=10.1007%2Fs11356-025-37237-y&partnerID=40&md5=af6eb97fc0e5a140d2bf24c596ac79e1	Article
Palai, C.; Pattanaik, S.R.; Panigrahi, T.; Jena, P.K.	Face Image Retrieval Using GLCM and Texture Feature Fusion	2025	Lecture Notes in Networks and Systems	1329 LNNS			191	201	0	10.1007/978-981-96-4741-5_17	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105017375859&doi=10.1007%2F978-981-96-4741-5_17&partnerID=40&md5=154943e8d905aff645bb268e456f684f	Conference paper
Pattnaik, S.; Kaushik, J.; Nayak, M.M.	An adaptive pandemic inventory model for time-constrained goods with income and price-sensitive demand with neutrosophic uncertainty	2025	International Journal of Advanced Operations Management	16	3		286	308	0	10.1504/IJAOM.2025.148399	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105015164796&doi=10.1504%2FIJAOM.2025.148399&partnerID=40&md5=5e508d6ab88add4597553057e757e4b4	Article
Sharma, S.; Rathore, A.S.; Moud, R.; Jaroli, P.; Dash, P.	Artificial Intelligence Driven Photonics Based Real-Time Monitoring System for Tumor Diagnosis	2025	IET Conference Proceedings	2025	7		358	365	0	10.1049/icp.2025.1318	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105012034661&doi=10.1049%2Ficp.2025.1318&partnerID=40&md5=1311904f54b758aa07109688341d40ca	Conference paper

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Acharya, B.; Parida, P.; Panda, R.N.; Mohapatra, P.K.	Subspace-Based Adaptive Approach for Blind Channel Estimation and Equalization	2025	Lecture Notes in Networks and Systems	1247 LNNS			68	77	0	10.1007/978-3-031-81086-2_8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105005392870&doi=10.1007%2F978-3-031-81086-2_8&partnerID=40&md5=b6ea0d35473898374dd26e5c05f898a4	Conference paper
Garg, A.; Niazi, K.R.; Sahoo, S.S.; Tiwari, S.; Karimi, H.	A Comprehensive Study on Market and Energy Trading Mechanism in MV-EHs	2025							0	10.1109/ICREDG66184.2025.10966141	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004736275&doi=10.1109%2FICREDG66184.2025.10966141&partnerID=40&md5=b80985c88d2d26e30d6458ea53735b20	Conference paper
Mohanty, R.; Satya, V.S.; Chatterjee, D.; Sahoo, S.S.; Bal, S.K.	Multi Winding Isolated Converter with Cascaded MLI for Solar Electric Vehicle	2025							0	10.1109/SSDEE64538.2025.10967625	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004665413&doi=10.1109%2FSSDEE64538.2025.10967625&partnerID=40&md5=2f504fb9eec5a8567dcefe2e8d6b90d8	Conference paper
Sahoo, S.S.; Chatterjee, K.; Sethi, B.K.	An Adaptive Non Superconducting Fault Current Limiter for Low Voltage Ride-Through for Protection of DFIG Wind Generator	2025							0	10.1109/SSDEE64538.2025.10967940	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004651510&doi=10.1109%2FSSDEE64538.2025.10967940&partnerID=40&md5=66a0d81bc09b7d6540fbf6a995b17178	Conference paper
Palai, C.; Jena, P.K.; Khuntia, B.; Pattanaik, S.R.	Covid-19 detection from X-ray image using Deep learning and SVM	2025							0	10.1109/ICAIHC64101.2025.10957334	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105004271465&doi=10.1109%2FICAIHC64101.2025.10957334&partnerID=40&md5=6168664e4ec7c5a376ba76fed1eb5993	Conference paper
Rashmiranjan, R.; Yang, P.-C.; Mallick, P.; Mohanty, D.; Satpathy, S.K.	Investigation of Structural, Dielectric, and Transport Properties of Poly (Methyl Methacrylate) Composite Films Incorporating Sr0.5(TM)0.5TiO3 (TM = Zn, Co)	2025	Arabian Journal for Science and Engineering			109767			1	10.1007/s13369-025-10141-w	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105003100213&doi=10.1007%2Fs13369-025-10141-w&partnerID=40&md5=182fe8f63378028ebdc373106f8b1cfb	Article
Behera, A.; Panda, M.; Swain, K.; Sarangi, P.P.	An Enhanced Skin Lesion Classification Technique Using Residual and Deep Convolutional Neural Networks	2025	Learning and Analytics in Intelligent Systems	45			356	364	0	10.1007/978-3-031-82706-8_36	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105000874678&doi=10.1007%2F978-3-031-82706-8_36&partnerID=40&md5=83877087490aac90b4764c141888a812	Book chapter
Mohapatra, T.; Panda, M.; Sarangi, P.P.	Enhancing Data Security in Telemedicine: Integration of Digital Watermarking and Cryptography Techniques	2025	Learning and Analytics in Intelligent Systems	45			153	161	0	10.1007/978-3-031-82706-8_16	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105000855080&doi=10.1007%2F978-3-031-82706-8_16&partnerID=40&md5=f8c03714ddc4606df1ef9887cdef1f03	Book chapter
Ravindra, V.; Mohapatra, P.K.; Panda, R.N.; Rout, S.K.	HYBRID FIREFLY AND PARTICLE SWARM OPTIMIZATION ALGORITHM FOR DESIGN OF NON-LINEAR CHANNEL EQUALIZER	2025	Proceedings on Engineering Sciences	7	1		565	576	0	10.24874/PES07.01D.013	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105000077006&doi=10.24874%2FPES07.01D.013&partnerID=40&md5=dfbbfc938bc2ded37d0a29ca1b4ce013	Article

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Reddy, S.R.; Panda, S.K.; Rout, S.K.; Mohapatra, P.K.; Nayak, D.K.	CLUSTER HEAD SELECTION FOR ENERGY EFFICIENCY IN WIRELESS SENSOR NETWORKS: A GRASSHOPPER OPTIMIZATION APPROACH	2025	Proceedings on Engineering Sciences	7	1		555	564	0	10.24874/PES07.01D.012	https://www.scopus.com/inward/record.uri?eid=2-s2.0-105000060190&doi=10.24874%2FPES07.01D.012&partnerID=40&md5=6e6a877214bfd24a0e04fcb95353e3de	Article