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# PUBLICATIONS



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280 documents for ***Affordable and clean energy***

Article

Optimizing support vector regression using grey wolf optimizer for enhancing energy efficiency and building prototype architecture

Sakib, M., Ahmad, S., Anwar, K., Saqib, M.

***Cluster Computing***, 2025

Conference Paper

Comparison of SPV System Performance with DAST System Using MPPT Algorithms

Chandra Babu Naidu, P., Jayashree, R., Rajasekaran, S., Swaminathan, J.N.

***Lecture Notes in Networks and Systems*, 2025**

Article

Development of MOF-derived zinc oxide/cobalt oxide@carbon nanospheres composite for improved methanol electro-oxidation

Venkata Prasad, G., Sekhar, Y.C., Imran, K., Vinothkumar, V., Kim, T.

***Journal of Physics and Chemistry of Solids*, 2025**

Article

Frequency Regulation Strategy in Islanded Microgrid With High Renewable Penetration Supported by Virtual Inertia

Suman, G.K., Yadav, S., Guerrero, J.M.R.

***Smart Grids and Sustainable Energy*, 2024**

Article

Device engineering of lead-free  $\text{FaCsSnI}_3/\text{Cs}_2\text{AgBiI}_6$ -based dual-absorber perovskite solar cell architecture for powering next-generation wireless networks

Baruah, S., Borah, J., Reddy, P.Y., ...Sathvika, N., Rajasekaran, S.

***International Journal of Communication Systems*, 2024**

Article

Enhanced solar-driven photocatalytic hydrogen production, dye degradation, and supercapacitor functionality using  $\text{MoS}_2\text{-TiO}_2$  nanocomposite

M, C.S., Purusottam Reddy, B., Kuchi, C., ...Al-Zahrani, F.A.M., Mangiri, R.

***Ceramics International*, 2024**

Article • *Open access*

Evaluation of heat transfer for unsteady thin film flow of mono and hybrid nanomaterials with five different shape features

Sreelakshmi, K., Mary, G.L.R., Alqsair, U.F., ...Khan, S.U., Lioua, K.

***Case Studies in Thermal Engineering*, 2024**

Article

Bimetallic Cu–Zn Prussian blue analogue nanoparticles for enhanced oxygen evolution reaction

Purusottam Reddy, B., TIGHEZZA, A.M., Mallesham, G., ...Suh, Y., Park, S.

***Journal of Materials Science***, 2024

Review

Polyaniline assembly ultra-thin graphene hybrid nanocomposites synthesis for current research trends of promising applications in emerging fields

Meher, A., Tandi, A., Jena, H.K., ...Moharana, S., Sagadevan, S.

***Materials Science and Engineering: B***, 2024

Article

Fractional Jaya election-based optimization enabled routing and charge scheduling for electric vehicle in cloud-assisted Vehicular Ad Hoc NETWORK

Pushparajan, R., Devaraj, T., Balaji Damodhar, T.S., Kannan, C.

***International Journal of Communication Systems***, 2024

Article

Numerical simulation of natural convection in a rectangular enclosure filled with porous medium saturated with magnetic nanofluid using Buongiorno's two-component model

Venkatadri, K., Narasimha Murthy, K.V., Bég, T.A., Beg, O.A., Kuharat, S.

***Canadian Journal of Chemical Engineering***, 2024

Article

Device optimization of all inorganic CsPbBr<sub>3</sub>/LNMO based multi-layered perovskite light harvesters for broader capturing of solar spectrum

Baruah, S., Borah, J., Maity, S.

***Solar Energy***, 2024

Conference Paper • *Open access*

Experimental and numerical validation of the energy-saving performance of a passive pcm floor for a real-scale building

Sundaram, N.K., Maruthamuthu, R., Alsalami, Z., ...Srividya Devi, P., Subburaj, S.K.

***E3S Web of Conferences***, 2024

Conference Paper • *Open access*

Leveraging Renewable Energy Solutions to Enhance Language Acquisition in English Classrooms

Shaik, I.A., Begum, B.R., Athahar, S., Hussain, S.A.

***E3S Web of Conferences***, 2024

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The Contribution of Active Cooling on Perovskite Photovoltaic Cell Performance and Its Impact on the Power Production

Almusawi, M., Hussein, A.H.A., Bobba, P.B., ...Maruthamuthu, R., Vivek, V.

***E3S Web of Conferences***, 2024

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Synergy Effect of High K-Low Ca-High Si Biomass Ash Model System on Syngas Production and Reactivity Characteristics during Petroleum Coke Steam Gasification

Wei, J., Tian, L., Sun, J., ...Xu, G., Yu, G.

***Energies***, 2024

Article

Decoupling study on the influence of the interaction between biomass hydrochar and coal during co-pyrolysis on the char structure evolution

Gao, Y., Xu, C., Cui, D., ...Xu, G., Wei, J.

***Renewable Energy***, 2024

Book Chapter

QoS-aware smart resource allocation for green cognitive radio networks

Ahmed, A., Mishra, D., Prasad, G., Baishnab, K.L.

***Spectrum and Power Allocation in Cognitive Radio Systems***, 2024

Article

Robust finite difference scheme for the magnetohydrodynamics natural convection in a quadrant-shaped enclosure with radiation effect

Venkatadri, K., Saravana, R., Beg, O.A., Kuharat, S., Leonard, H.J.

***European Physical Journal Plus***, 2024

Article

Effective ensemble based intrusion detection and energy efficient load balancing using sunflower optimization in distributed wireless sensor network

Prasanth, V.S., Posonia, A.M., Parveen Akhther, A.

***Multimedia Systems***, 2024

## Article

Improvement of photovoltaic response in perovskite solar cell via all inorganic lead free cubic double  $\text{La}_2\text{NiMnO}_6/\text{Cs}_3\text{Bi}_2\text{I}_9$  based graded absorber architecture

Baruah, S., Borah, J., Vandana, B., ...Nagendra, M., Rajasekaran, S.

***Optical and Quantum Electronics*, 2024**

## Article

Millimeter assisted wave technologies in 6G assisted wireless communication systems: a new paradigm for 6G collaborative learning

Rao, P.V.V., Anand, M., Alfred Daniel, J., ...Gnanasigamani, L.J., Punitha, P.

***Wireless Networks*, 2024**

## Article

A hybrid technique for grid-connected solar–wind hybrid system with electric vehicles

Ponnappalli, B., Lakshmikhandan, K., Palanisamy, K., Sithambaram, M.

***Energy and Environment*, 2024**

## Article

Monolithically grown  $\text{CSPbBr}_3$  by chemical vapor deposition for Self-Powered photodetector

Chandrasekar, P.V., Zheng, J., Wang, Y., ...Mudike, R., Li, C.

***Chemical Engineering Journal*, 2024**

## Article

Energy efficient multi-objective cluster-based routing protocol for WSN using Interval Type-2 Fuzzy Logic modified dingo optimization

Kishore Verma, S., Lokeshwaran, K., Martin Sahayaraj, J., Adeline Johnsana, J.S.

***Peer-to-Peer Networking and Applications*, 2024**

## Book Chapter

Economic growth study and inferences from developments in e-mobility

Sharada Prasad, N., Goritoyal, C., Ramana, N.V., ...Sukania, P., Sampath, B.

***A Sustainable Future with E-Mobility: Concepts, Challenges, and Implementations*, 2024**

## Article

PPy@h-MoO<sub>3</sub> nanorods as the cathode material for high-efficiency lithium-ion batteries

Reddeppa, N., Chen, L., Raut, S.D., Cho, W.C.

***New Journal of Chemistry*, 2024**

Article

A NEW SOLUTION FOR TACKLING MISMATCHING LOSSES IN SOLAR PV ARRAY VIA IMAGE ENCRYPTION

Karthick, B., Vengatesan, V., Raj, J.A.A., Swamy, I.K., Madhu, V.

***ARPN Journal of Engineering and Applied Sciences*, 2024**

Article

A Multilevel Supply Modulator for RF Power Amplifier using 130nm CMOS Technology: Comparator Based Approach

Gangadharan, S., Khanam, R., Thangasamy, V.

***Evergreen*, 2024**

Article

Enhancing Wind Power Generation Forecasting with Advanced Deep Learning Technique using Wavelet-Enhanced Recurrent Neural Network and Gated Linear Units

Shinde, S.K., Tirlangi, S., Komal Kumar, N., ...Sathyamurthy, R., Rajaram, A.

***International Journal of Renewable Energy Research*, 2024**

Article

Bio-cellulose-derived rGO-supported SmCoO<sub>3</sub> hybrid composite photoanode for high performance dye-sensitized solar cells

Sengeni, D., Vanitha, M., Puviarasi, R., Pabi, D.J., Lawrence Mary, K.

***Journal of Materials Science: Materials in Electronics*, 2024**

Article • *Open access*

Intelligent-of-things multiagent system for smart home energy monitoring

Vemuri, R., Durga, C.B.V., Abuthahir, S.S., ...Senthilvadivu, S., Bhukya, L.

***Indonesian Journal of Electrical Engineering and Computer Science*, 2024**

Article

Graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) decorated on CuCo<sub>2</sub>O<sub>4</sub> nanosphere composites for enhanced electrochemical performance for energy storage applications

Gajarajan, S., Kuchi, C., Reddy, A.O., ...Naresh, B., Sreedhara Reddy, P.

***Materials Today Communications*, 2024**

Article

Poly(ethylene glycol)/poly(vinylidene) fluoride/TiO<sub>2</sub> nanoparticle composite for sandwiched solid-state dye-sensitized solar cells

Reddeppa, N., M, C.S., Madhu Mohan, V., Chen, W.

***Journal of Materials Science: Materials in Electronics*, 2024**

Article • *Open access*

Effect of inclined Lorentzian force on radiated nanoflow Williamson model under asymmetric energy source/sink: Keller box method

Vinothkumar, B., Poornima, T., Sreenivasulu, P., Subba Rao, A.

***APL Materials*, 2024**

Article

Chemical Reaction and Viscous Dissipative Effects on Buongiorno's Nanofluid Model Past an Inclined Plane: A Numerical Investigation

Reddy, R., Gaffar, S.A.

***International Journal of Applied and Computational Mathematics*, 2024**

Article

Enhanced performance of dye-sensitized solar cell for indoor and outdoor stability using reduced graphene oxide @ Mn<sub>2</sub>O<sub>3</sub> nanocomposite

Arjun Kumar, B., Gopal, R., Al-Omari, S.A.B., ...Kabeer, S., Sangaraju, S.

***Carbon Letters*, 2024**

Book Chapter

Management of trust between patient and IoT using fuzzy logic theory

Rajeshkumar, L., Priya, J.R., Sumalatha, K., ...Suganthi, D., Saravanan, D.

***Advances in Fuzzy-Based Internet of Medical Things (IoMT)*, 2024**

Article

A coordinated stochastic dispatch model for hybrid energy markets with renewable energy uncertainties using moth flame optimization

Gumpu, S., Sahoo, N.C., Balakrishna, P.

***Energy Systems*, 2024**

Article

Analysis of Voltage Source Inverter with Photovoltaic Renewable Energy Source for Improving Power Quality in Solar



Shabbeer Basha, K.H., Solomon Raj, S., Sivakumar, S., ...Laxmaiah, G., Raj, K.B.

***International Journal of Intelligent Systems and Applications in Engineering*, 2024**

Conference Paper

Fault Detection in Building Infrastructure Using IoT Sensors and Bayesian Network

Ranganathan, C.S., Sampathrajan, R., Venkatesh, M., ...Ganesh, E.N., Murugan, S.

***2nd International Conference on Intelligent Cyber Physical Systems and Internet of Things, ICoICI 2024 - Proceedings*, 2024**

Article

An Improved Gain Antenna Array for Telehealth Monitoring on the Internet-of-Things Plat

Sharma, D., Tiwari, R.N., Kumar, S.S., Poddar, A.K.

***IEEE Internet of Things Journal*, 2024**

Conference Paper

Smart Home Automation with IoT Sensor Systems for Energy Conservation using Zigbee and Wifi

Jagannathan, S., Deepa, V., Sakthi Karthi Durai, B., ...Celin, J.J.A., Dhamodaran, S.

***5th International Conference on Electronics and Sustainable Communication Systems, ICESC 2024 - Proceedings*, 2024**

Conference Paper

Design & Simulation of Fuel cell/Battery Hybrid Energy Storage System

Yagnendra, C., Kumar, B.A., Suresh, A., Ghosh, S.

***Proceedings of International Conference on Circuit Power and Computing Technologies, ICCPCT 2024*, 2024**

Article

OPTIMISING ENERGY EFFICIENCY IN CLOUD-BASED BIG DATA ENVIRONMENT USING LSTM-DWN REINFORCEMENT LEARNING

Renuka, G.B., Kanniyappan, S., Manjunatha, S., ...Prasad, A.R., Rajaram, A.

***Journal of Environmental Protection and Ecology*, 2024**

Article

EFFICIENT POWER-AWARE PROTOCOLS FOR GREEN COGNITIVE RADIO NETWORKS IN INDUSTRIAL COMMUNICATIONS

Sumathi, D., Priya, R.K., Suresh, B., ...Sunddararaj, S.P., Sivachitra, M.

***Journal of Environmental Protection and Ecology*, 2024**

Conference Paper

Development of a Fast and Energy-Efficient Carrier Bypass Adder with Tunable Delay Extension Using the Han Carlson Adder

Shyamsundar, B., Venkateswara, R., Kumar, H.P., Kumar, H.S.

**2024 IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems, ICITEICS 2024, 2024**

Conference Paper

Design and Analysis of BLDC Motor-Based Electric Vehicle Using Fuzzy Logic Controller

Lokesh, B., Ravi, R.K., Mahesh, N., ...Mahendra, M., Pavan Kumar, A.V.

**2024 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication, IConSCEPT 2024 - Proceedings, 2024**

Conference Paper

Reactive Power Compensation in Multi-microgrid Environment

Pavan Kumar, A.V., Kumar, B.V., Kumar, K.A., ...Karthik, A.V.S.K., Krishna, P.B.

**2024 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication, IConSCEPT 2024 - Proceedings, 2024**

Conference Paper

Efficiency Analysis of VSC Controllers: Discrete PWM vs Improved Hysteresis PWM for Voltage Sag Improvement in Grid-Connected Hybrid PV-Wind Systems

Sai Reddy, G.S., Pavan Kumar, A.V., Manasa, E., ...Achari, V.N., Basha, C.K.

**2024 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication, IConSCEPT 2024 - Proceedings, 2024**

Conference Paper

Three-Phase Power Distribution from Electric Vehicles: Enabling Rural Electrification and Sustainable Mobility

Kumar, R.S., Pavan Kumar, A.V., Kiran, S.J., Babu, P.M., Prathyusha, L.

**2024 International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication, IConSCEPT 2024 - Proceedings, 2024**

Conference Paper

A Deep Learning Approach for Sustainable and Secure Operations of Cloud Data Centres for Optimising the Energy Efficiency

Sathish, K., Arya, H., Kaliappan, S., ...Arigela, A.K., Venkatesh, R.

**Proceedings - 2024 International Conference on Expert Clouds and Applications, ICOECA 2024, 2024**

## Article

A Comprehensive IoT-Based Automation System for Enhanced Productivity and Sustainability for Advancing Farming Efficiency

Deepa, A.R., Vidhyashree, B., Venkataraman, S.R., ...Madasamy Raja, G., Preetha, M.K.

***Nanotechnology Perceptions*, 2024**

## Conference Paper

Artificial Intelligence and Machine Learning Approaches based on Power Reduction in Automated Internet of Things Devices

Alsahlane, A.T.R., Chandhok, G.A., Saravanan, T., ...Joshi, K., Rajesh, N.

***Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024*, 2024**

## Conference Paper

A DVR-Based Compensation System Under Various Power System Faults in a Multi-microgrid

Pavan Kumar, A.V., Karthik, A.V.S.K., Krishna, P.B.

***Lecture Notes in Electrical Engineering*, 2024**

## Conference Paper

Mitigating Power Losses in Distribution Systems: Integrating EV Charging Stations and Renewable Energy Sources

Srinivas, C.H., Ayesha, S.S., Ahammad, S., ...Sowjanya, T., Krishna, Y.M.

***2024 International Conference on Advances in Modern Age Technologies for Health and Engineering Science, AMATHE 2024*, 2024**

## Conference Paper

Low Power Design Techniques for IoT Devices

Goud, D.S., Kumar, C., Devipriya, S., ...Latha Mageshwari, P.S., Anithamary, M.

***Proceedings of 9th International Conference on Science, Technology, Engineering and Mathematics: The Role of Emerging Technologies in Digital Transformation, ICONSTEM 2024*, 2024**

## Conference Paper

A Fuzzy Logic Controller for a Photovoltaic System Relying on a Closed-Loop DC-DC Converter

Chandrashekar, B., Pradeep, J., Muthukumaran, M., ...Khandan, K.L., Joshuva, A.D.

***Proceedings of 9th International Conference on Science, Technology, Engineering and Mathematics: The Role of Emerging Technologies in Digital Transformation, ICONSTEM 2024*, 2024**

Conference Paper

Self-Adaptive Electronics using Artificial Neural Networks

Anita, S., Joon, R.K., Devi, S.R., ...Howard, E.M., Rajendiran, M.

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Analysis of Serial Adder Using FinFET Based GDI Technique

Kandasamy, N., Ganjikutna, G.K., Dheeraj Reddy, D., Ashok Kumar, E.

***International Conference on Smart Systems for Applications in Electrical Sciences, ICSSES 2024, 2024***

Conference Paper

Deep Learning Approach for Predicting Output Current Ripple in Electric Vehicle Chargers

Madumathi, K., Saravanan, T.S., Khandan, K.L., ...Kannan, S., Rajendiran, M.

***7th International Conference on Inventive Computation Technologies, ICICT 2024, 2024***

Conference Paper

A Novel Approach to Cloud Load Balancing Using Advanced Migration Operator

Prasanth, V.S., Likhitha, P., Chowdary, K.R., Manohar, P., Parveen Akhther, A.

***Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024, 2024***

Article

A novel LF-TLBO-based optimisation scheme for islanding detection in microgrids

Suman, G.K., Yadav, S., Guerrero, J.M.R.

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A novel hybrid approach for efficient energy management in battery and supercapacitor based hybrid energy storage systems for electric vehicles

Kranthikumar, I., Srinivas, C.H., Kiran, T.V., Pradeep, P., Balamurugan, V.

***Electrical Engineering, 2024***

Conference Paper

Comparator Based Envelope Tracking for RF PA Using FinFET

Gangadharan, S., Khanam, R., Thangasamy, V.

***2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and***

**Future Directions), ICRITO 2024, 2024**

Conference Paper

Estimating Lithium-Ion Battery State of Health with Least Squares Approach for Accurate Assessment

Arulkumar, K., Gowthami, R., Pavan Kumar, A.V., Ramanathan, P., Arun, V.

**2nd International Conference on Emerging Trends in Information Technology and Engineering, ic-ETITE 2024, 2024**

Book Chapter

Non-Noble Metal Catalysts in Oxygen Reduction Reaction

Rajaram, R., Maruthapandian, V., Divya, V., Mahesh, K.N., Mutyala, S.

**Nano-electrocatalyst for Oxygen Reduction Reaction: Fundamentals to Field Applications, 2024**

Article

GREEN HORIZONS SUSTAINABLE PRACTICES IN DATA CENTRE NETWORKING FOR ENVIRONMENTAL CONSERVATION

Khandan, K.L., Murali Krishna, T., Swetha, S., ...Pati, H., Manoj Kumar, N.M.

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GREEN AI REVOLUTION MACHINE LEARNING FOR ENVIRONMENTAL-FRIENDLY COMMUNICATION NETWORKS

Amutha, M., Lokeshwaran, K., Rajendiran, M., ...Vinodha, S., Yalawar, M.S.

**Journal of Environmental Protection and Ecology, 2024**

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Energy Efficient Task Scheduling Strategy using Modified Coot Optimization Algorithm for Cloud Computing

Kandan, M., Mutharasu, M., Siva Satya Sreedhar, P., Thenappan, S., Nagarajan, G.

**Journal of Intelligent Systems and Internet of Things, 2024**

Article

Enhanced Predictive Model for Grid Stability Using Hybrid GBM-LSTM Approach

Khandan, K.L., Kumar, N.M., Krishnasami, U., ...Phaneendra Maguluri, L.P., Rajaram, A.

**International Journal of Renewable Energy Research, 2024**

Article

Integrating the Internet of Things to Protect Electric Vehicle Control Systems from Cyber Attacks

Bhukya, B.N., Venkataiah, V., Mani Kuchibhatla, S., ...Kumari, R.V.S.L., Raju, Y.R.

***IAENG International Journal of Applied Mathematics*, 2024**

Article

Microgrids with day-ahead energy forecasting for efficient energy management in smart grids: hybrid CS-RERNN

Shirley, C.P., Pattar, J.I., Kavitha Rani, P., ...Elangovan, D., Venkatakrishna Reddy, C.

***Australian Journal of Electrical and Electronics Engineering*, 2024**

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Enhancing Energy Efficiency in Smart Cities: Advanced ANN and Decision Tree Model for Solar Energy with IoT and Cloud Server

Mohanaprakash, T.A., Mutharasu, M., Saravanan, T., Raja, S., Angeline Valentina Sweetey, A.

***International Journal of Intelligent Systems and Applications in Engineering*, 2024**

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Characterization of heat-treated biosilica from biomass waste fox tail millet husks and banana fiber reinforced epoxy composite

Nithyanandan, N., Gokilakrishnan, G., Manoj Kumar, S., Hanish Anand, S.

***Biomass Conversion and Biorefinery*, 2024**

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Enhanced Thermodynamic Modeling of Converter Transformer Influenced by DC Bias

Yadav, S., Suman, G.K., Mehta, R.

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Simulation of metal ceramic single layer coatings for solar energy applications

Singh M, M., Kumar, M., Sivaiah, P., ...Farouk Deifalla, A.F., Mozammil Hasnain, S.M.

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Biometric key generation and multi round AES crypto system for improved security

Nagaraju, S., Nagendra, R., Balasundaram, S., Kiran Kumar, R.

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Sustainable energy generation from waste water: IoT integrated technologies

Rahamathunnisa, U., Sudhakar, K., Padhi, S.N., ...Shashibhushan, G., Sampath, B.

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Article

Optimization of all inorganic perovskite solar cell with dual active layers for beyond 29% efficiency

Baruah, S., Borah, J., Bhattarai, S., Maity, S.

**Solar Energy**, 2023

Article

Structure, morphology, photonconversion and energy transfer characteristics of  $\text{Er}^{3+}/\text{Yb}^{3+}:\text{BaYF}_5$  nanocrystals synthesized by hydrothermal method for photovoltaics

Kummara, V.K., Venkatalakshamma, P., Upendra Kumar, K., ...Nanda Kumar Reddy, N.K., Yuvaraj, C.S.

**Ceramics International**, 2023

Article

A polypyrrole derived nitrogen doped porous carbon support for an atomically dispersed Mn electrocatalyst for the oxygen reduction reaction

Parida, S.K., Barik, T., Jena, H.N.

**Sustainable Energy and Fuels**, 2023

Article

Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in  $\text{N}_2$  atmosphere

Pattanayak, S., Loha, C., Singh, R.K., Saha, D.

**Sustainable Energy Technologies and Assessments**, 2023

Conference Paper • Open access

An IoT-Based System for Fault Detection and Diagnosis in Solar PV Panels

Balakrishnan, D., Raja, J.G.J.S., Rajagopal, M., Sudhakar, K., Janani, K.

**E3S Web of Conferences**, 2023

Article

Biofuel production from novel *Prunus domestica* kernel oil: process optimization technique

Babu Aurtherson, P., Nalla, B.T., Srinivasan, K., Mehar, K., Devarajan, Y.

***Biomass Conversion and Biorefinery*, 2023**

Review • *Open access*

Assessment of charging technologies, infrastructure and charging station recommendation schemes of electric vehicles: A review

Savari, G.F., Mohamed Ali, J.S., Anantha Raman, L., ...Abdel Aleem, S.H., Omar, A.I.

***Ain Shams Engineering Journal*, 2023**

Article

Self-powered and improved photoresponsive broadband photodetecting sensors using Au/NiFe<sub>2</sub>O<sub>4</sub>/p-Si heterojunction architecture

Nanda Kumar Reddy, N.K., Kushvaha, S.S., Kumari, A., ...Sangaraju, S., Shim, J.

***Materials Science in Semiconductor Processing*, 2023**

Review

Metal–Organic Frameworks-Based Cathode Materials for Energy Storage Applications: A Review

Nagappan, S., Duraivel, M., Elayappan, V., ...Lee, J., Park, K.

***Energy Technology*, 2023**

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Transmit Antenna Selection for Achieving Energy Efficiency in Massive MIMO Based 5G Cellular Network

Borah, J., Baruah, S., Bhargavi, G., Durgaprasad, P., Damodar, B.

***Radioelectronics and Communications Systems*, 2023**

Article

Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine

Hemanandh, J., Devarajan, Y., Ruby, M., Meenakshisundaram, N.

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DYNAMIC KEY GENERATION AND DISTRIBUTION COMPARISON USING MACHINE LEARNING INTEGRATED NODE AUTHENTICATION ROUTING PROTOCOL FOR IMPROVING QOS IN VANET

Parveen Akhther, A., Posonia, A.M., Prasanth, V.S.

**Malaysian Journal of Computer Science, 2023**

Conference Paper

IoT Enabled Space Vector Modulation Control for Multilevel Converters in Renewable Energy Systems

Balaji Damodhar, T.S., Ramakrishnan, R., Gokhale, A.A., ...Sasikala, K., Srinivasan, S.

**2023 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2023, 2023**

Conference Paper

Switch Controlled State Skipping Based Memory Efficient Test Pattern Generator for BIST Application

Nagaraju, S., G, R.H., Balasundaram, S.

**2023 2nd International Conference on Advances in Computational Intelligence and Communication, ICACIC 2023, 2023**

Conference Paper

Electric Vehicles Battery Management Device - Opportunities and Implications

Pavan Kumar, A.V., Kamal Basha, C., Srinivas, C.H.

**1st International Conference on Emerging Research in Computational Science, ICERCS 2023 - Proceedings, 2023**

Conference Paper

Flexible Photocapacitor Device Using Reduced Graphene Oxide@MOS<sub>2</sub>Nano Sheets for Future Flexible and Wearable Electronic and IoT Devices

Sangaraju, S., Kabeer, S., Nallabala, N.K.R., Kumar, B.A.

**PowerMEMS 2023 - 2023 IEEE 22nd International Conference on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, 2023**

Conference Paper

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