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Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. Elsevier data science teams have built extensive keyword queries, supplemented with machine learning, to map documents to SDGs with very high precision. Times Higher Education (THE) is using Elsevier SDG data mapping as part of its Impact Rankings. [More about SDGs](#) ↗

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## 31 documents for *Climate action*

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

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

Article • *Open access*

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

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

Marine Life Analysis Based on Ocean Water Level Rise and Climate Change Using Underwater Imaging Techniques

Mate, A.D., Arulananth, T.S., Sathiya, T., ...Raja, A.W., Yalawar, M.S.

***Remote Sensing in Earth Systems Sciences***, 2024

Article

Thiourea Functionalised Receptor for Selective Detection of Mercury Ions and its Application in Serum Sample

Mohanty, P., Dash, P.P., Mishra, S., Bhaskaran, R., Jali, B.R.

***Journal of Fluorescence***, 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.

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

Article

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**

Article

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**

Article

Performance, emission, combustion, exergy, exergoeconomic and sustainability analyses of  
EGR incorporated CI engine fuelled with areca nut husk nano-additive dosed plastic oil-  
water-diesel emulsion blend

Saha, D., Roy, B., Pattanayak, S., Mishra, L., Kundu, P.P.

***Thermal Science and Engineering Progress*, 2024**

Article • *Open access*

A mathematical approach of evaluating sustainability indicators in milling of aluminium  
hybrid composite by different eco-friendly cooling strategies

Sivalingam, V., Zhou, Q., Baskaran, S., ...Gupta, M.K., Korkmaz, M.E.

***Sustainable Materials and Technologies*, 2023**

Article

Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for  
bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in N<sub>2</sub> atmosphere

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

***Sustainable Energy Technologies and Assessments*, 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

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

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

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

Conference Paper

AI-based Prognostic Analysis of NO<sub>x</sub> Emission from Industrial Diesel Engine for Feedback Control System

Deepanraj, B., Sharma, P., Shaik, F., Anantha Raman, L.

***2023 1st International Conference on Optimization Techniques for Learning, ICOTL 2023 - Proceedings***, 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

Article

Application of potential green algal for power generation as a likely and fractional alternative

Devarajan, Y., Dinesh Babu, M., Arunkumar, D., Thandavamoorthy, R., Ruby, M.

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

Article

Comprehensive study of diesel engine characteristics of valves coated by titanium nitride (TiN)

Sivakumar, E.R., Krishna, R., Pachamuthu, S., Krishnakumar, T.S., Çolak, I.

***Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering***, 2023

Review • *Open access*

Recent Advancement in Postharvest Loss Mitigation and Quality Management of Fruits and Vegetables Using Machine Learning Frameworks

Singh, A., Vaidya, G.P., Jagota, V., ...Debnath, S., Potrich, E.

***Journal of Food Quality***, 2022

Conference Paper

Experimental Investigations on Utilization of Bagasse Ash in Adobe Bricks

Dharek, M.S., Sreekeshava, K.S., Vengala, J., ...Sunagar, P.C., Shivaprakash, M.V.

**Lecture Notes in Civil Engineering, 2022**

Article

Machinability investigation and sustainability assessment in hard turning of AISI D3 steel with coated carbide tool under nanofluid minimum quantity lubrication-cooling condition

Dash, L., Padhan, S., Das, A., Das, S.R.

**Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021**

Article

Examining the factors influencing consumers' choice for electric vehicles in India

Prasanna, S., Rangarajan, V., Khan, M., Asraar Ahmed, K.A.

**International Journal of Electric and Hybrid Vehicles, 2021**

Article

Effect of di-ethyl-ether on biodiesel fuelled diesel engine

Devaraj, A., Devarajan, Y., Vinoth Kanna, I.

**International Journal of Ambient Energy, 2021**

Article • Open access

2M2C-R2ED: Multi-Metric Cooperative Clustering Based Routing for Energy Efficient Data Dissemination in Green-VANETs

Chandramohan, D., Dumka, A., Jayakumar, L.

**Technology and Economics of Smart Grids and Sustainable Energy, 2020**

Article

Study on the effect on combining long-chain additive with neat bio-diesel fueled engine to examine its ignition characteristics

Devarajan, Y., Dinesh Babu, M., Nagappan, B., Choubey, G.

**Fuel, 2020**

Article

Feasibility study of employing diverse antioxidants as an additive in research diesel engine running with diesel-biodiesel blends

Devarajan, Y., Nagappan, B., Mageshwaran, G., Sunil Kumar, M., Durairaj, R.B.

**Fuel, 2020**

## Article

Experimental evaluation of combustion, emission and performance of research diesel engine fuelled di-methyl- carbonate and biodiesel blends

Devarajan, Y.

***Atmospheric Pollution Research***, 2019

## Article

Performance evaluation and emission characteristics of biodiesel-ignition enhancer blends propelled in a research diesel engine

Joy, N., Devarajan, Y., Nagappan, B.

***International Journal of Green Energy***, 2019

## Conference Paper

Exploration of Wind Energy in India: A Short Review

Sitharthan, R., Swaminathan, J.N., Parthasarathy, T.

***2018 National Power Engineering Conference, NPEC 2018***, 2018

Article • *Open access*

Spatio-temporal variations of surface temperatures of Ahmedabad city and its relationship with vegetation and urbanization parameters as indicators of surface temperatures

Mathew, A., Khandelwal, S., Kaul, N.

***Remote Sensing Applications: Society and Environment***, 2018

Article • *Open access*

3D modelling of coal deformation under fluid pressure using COMSOL multiphysics

Kumar, H., Mishra, M.K., Mishra, S.

***Journal of Engineering Science and Technology Review***, 2017

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