

The Journal of Engineering

Call for Papers

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Special Issue on:

Advancements in Renewable Energy Generation Technologies and Electric Vehicles - Energy of Things Perspective

Due to rapid population growth and economic expansion, the world's energy demand is rising day by day. This has led to reduction in fossil fuel reserves. The burning of fossil fuels has negatively impacted the climate and hampered sustainability. To sustainably resolve the aforementioned issues, researchers and scientists are extensively working to fulfil energy requirements via Renewable Energy (RE) based energy resources. Hydropower (Potential and Kinetic Energy), Solar (PV and Thermal energy), Wind, Geothermal (Heating and Cogeneration), bio-energy (Biofuels, Bio-electrochemical systems and Chemical Kinetics) and Hybrid/Integrated Renewable Energy Systems (HRES/IRES) are the main sources of renewable energy. Various technologies are being developed to improve the plant output by increasing the conversion efficiency. Application of Artificial Intelligence (AI), Internet of Things (IoT), Internet of Energy (IoE), Electric Vehicle and Cloud computing are a boon to renewable energy generation by better monitoring and control. However, extensive research is required to effectively harness the power from various renewable energy sources by using the latest state-of-art technologies with better control and operation strategies. This Special Issue aims to collect recent advancements in renewable energy with special emphasis on efficient and reliable renewable energy technologies, transmission, and storage. We invite submissions of original research articles, reviews, case studies, analyses, and assessments relevant to Renewable Energy, Electric Vehicle and Energy systems.

Topics of interest include, but are not limited to:

- Renewable energy business and economics
- Hydropower generation
- Bioenergy, biofuel: case studies, plant, and energy conversion.
- Biomass: - case studies, plant and energy conversion
- Energy from waste - case studies, plant and energy conversion
- Energy Storage system and technology
- Hybrid renewable energy systems
- Grid Interactive Systems with Hybrid RESs
- Rechargeable Energy Storage System for Electrical Vehicles and Components
- Safety and Security of RESs
- Energy Management and IoT for RESs
- Artificial Intelligence and Machine Learning Studies for RESs and Applications

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