

The mission of Renewable and Sustainable Energy Reviews is to communicate the most interesting and relevant critical thinking in renewable and sustainable energy in order to bring together the research community, the private sector and policy and decision makers. The aim of the journal is to share problems, solutions, novel ideas and technologies to support ...

In this review paper the renewable energy s power and warmth, which is produced using sun based, wind, sea, hydropower, biomass, geothermal assets, bio engages and hydrogen and these resources are known as unlimited resources. ... journal citation and DOI. Show References. Please wait... references are loading. Back to top. 10.1088/1755-1315 ...

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Energy resources can be classified into three categories: 1) nuclear; 2) fossil fuels; and 3) renewable. Renewable energy is defined as energy obtained from non-depletable sources which create low levels of greenhouse gas emissions (Bilgili et al., 2015).However, the energy sector is subject to reciprocal interactions among a wide range of parallel and interacting ...

Materials for Renewable and Sustainable Energy is an open access journal, focusing on research for renewable and sustainable energy technologies.. Topics include renewable energy storage and conversion, energy saving, and more. Indexed in the Web of Science's ESCI, Scopus, SCImago, DOAJ, and EI Compendex among other databases.

The pressing challenge of climate change necessitates a rapid transition from fossil fuel-based energy systems to renewable energy solutions. While significant progress has been made in the development and deployment of renewable technologies such as solar and wind energy, these standalone systems come with their own set of limitations.

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Continuing the mission of the partner journal, Renewable and Sustainable Energy Reviews, the journal will address key challenges in the global energy transition, and the wider sustainable development and environmental issues related to it, and act as a forum for the best research to come together and provide solutions and pathways for us to ...

The development of society is inseparable from the usage of energy. With the increasing global population and the development of the economy and society, the rising demand for energy of daily life and production is an inevitable trend (Hosseini and Wahid, 2014). This process's large-scale use of fossil fuel has led to their severe depletion (Hosseini and Abdul ...

Biomass has become a key contender in the race to find sustainable energy options, as we move toward a more environmentally friendly future. This extensive assessment explores the potential of biomass to transform the global energy landscape. We have examined different conversion technologies, including thermal technologies such as combustion and ...

Renewable Energies is a scientific journal whose main goal is to be a reference for publishing the more recent advances in renewable energies, including solar photovoltaic, solar thermal, wind, hydraulic, biomass, geothermal, biogas, and oceanic energy. The reported advances will focus on new components and systems, technology perspectives, operation and ...

This review discusses the world's energy needs, renewable energy technologies for domestic use, and highlights public opinions on renewable energy. A systematic review of ...

Energy derived from fossil fuels contributes significantly to global climate change, accounting for more than 75% of global greenhouse gas emissions and approximately 90% of all carbon dioxide emissions. Alternative energy from renewable sources must be utilized to decarbonize the energy sector. However, the adverse effects of climate change, such as ...

Energy Strategy Reviews is a gold open access journal that provides authoritative content on strategic decision-making and vision-sharing related to society's energy needs. The journal stimulates the exchange and sharing of knowledge and best practice in energy strategy planning and implementation, preferably based on quantitative studies that advance the use of energy ...

International Journal of Hydrogen Energy. Volume 48, Issue 46, 29 May 2023, Pages 17383-17408. Review Article. Renewable energy-to-green hydrogen: A review of main resources routes, processes and evaluation. Author links open overlay panel Qusay Hassan a, Ammar M. Abdulateef b, ...

Energy storage systems (ESSs) have acquired enhanced importance with the extensive growth and development of renewable energy systems (RESs) to accomplish the i ... Journal Specific Instructions; ... Evaluation of energy storage systems for sustainable development of renewable energy systems--A comprehensive review. J. Renewable ...

New theories, methods and technologies for energy research. Interdisciplinary research of materials, physics, chemistry and biology in energy. Low-carbon utilization of fossil fuel and CCUS. Advanced hydrogen, renewable energy and energy storage technologies. Exploration and applications of novel energy conversion. Applications of AI, big data ...

The Journal of Renewable Energy Law and Policy provides a platform for review and discussion, both in Europe and internationally, of the legal and policy issues surrounding renewable energy. The journal reports on the dynamic and quickly changing developments taking place in Europe and around the world in the renewable energy sector, from bio ...

Second, Nigeria's renewable energy sources include wind, solar, biomass, hydro, and geothermal. This study recommends that renewable energy sources be harnessed to meet the country's electricity shortfall, and effective policies should be implemented that can provide solutions to the country's socio-economic problems.

In the last two decades, renewable energy has been paid immeasurable attention to toward the attainment of electricity requirements for domestic, industrial, and agriculture ...

Renewable energy relies on climate fields that will be altered by warming, and the impacts on the energy system are estimated for eight renewable energy technologies. ... a review. Energy 38, 1 ...

The Journal of Renewable and Sustainable Energy is an interdisciplinary journal covering specific areas of renewable and sustainable energy relevant to the physical science and engineering communities. The journal has a strong focus on integration of disciplines for renewable power technologies at global scales that have the potential to ...

Peer-review under responsibility of the Euro-Mediterranean Institute for Sustainable Development (EUMISD) doi: 10.1016/j.egypro.2015.07.774 International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES15 Review Article-Renewable Energies Javid Mohtasham Department of Chemistry, Istanbul ...

Our systematic review protocol began by searching the web of science database on 10 October 2017 using the words "renewable energy" and "politics" or "renewable energy policies", using plural and singular variants, covering all the period of the Web of Science (WoS) (1900-). 1 We obtained 853 publications that range from 1998 to ...

Renewable energy literature review bibliometric analysis forecasting. 1. ... Energy Conversion and Management (8.72%) is the fifth. Sixth-to-tenth journals, Renewable Energy, International Journal Of Electrical Power & Energy Systems, Applied Sciences-Basel, IEEE Transactions On Sustainable Energy, IET Renewable Power Generation, accounted for ...

Pursuing sustainable development in the face of climate change and environmental degradation has led to a significant shift toward renewable energy sources. A dependable, affordable, and stable renewable energy source must meet almost any future energy need. This review explores the environmental impacts of various forms of renewable energy, ...

Investment in emerging renewable energy technologies is essential if the global energy sector is to transition from fossil-based toward zero-carbon by the second half of this century, limiting the impacts of climate change. 1 Many of these emerging technologies are based on a resource that surrounds us--the ocean. Although there are many forms of ocean energy ...

The reason is that the same absolute amount of renewable energy yields a higher renewable energy share, if energy demand growth is diminished because of energy efficiency. As for energy intensity, the annual gain has jumped from an average of 1.3% between 1990 and 2010 to 2.2% for the period 2014-2016, whole falling to 1.7% in 2017 [12].

This review revealed that the selection of input and output factors used in DEA is sufficient enough to evaluate renewable energy performance. This review contributed to the current energy literature and filled in the gap with the addition of new knowledge on assessing renewable energy research studies intensively using a formal systematic ...

The impact of variable renewable energy (VRE) sources on an electricity system depends on technological characteristics, demand, regulatory practices and renewable resources. The costs of ...

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