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The growth in population, economic expansion, and urban dynamism has collectively driven a surge in the use of public and private transport, resulting in increased energy consumption in this sector. Consequently, the transport sector requires an energy transition to meet mobility demands, foster economic growth, and achieve emission reduction. The main ...

Recently, Egypt emerged as one of the top twenty countries with virile sustainable energy transition mechanism through the efforts of the government-run New and Renewable Energy Authority (NREA) (Tawfeek, 2017). NREA has ensured an unprecedented investment on clean energy technologies starting from the year 2016 and has also ensured an improved ...

Energy Research and Social Science was identified as the highest-ranking journal with a total of 27 (11%) articles while Renewable and Sustainable Energy Reviews ranked second having 24 (10%) publications during the review period (Fig. 6).

In a comprehensive analysis of the global transition towards renewable energy, the study revealed significant disparities in adoption rates and technological advancements across nations, while also underscoring the potential for an extensive shift in energy paradigms. ... European Journal of Sustainable Development, 8 (5) (2019), p. 57 ...

Biogas can also be used in fuel cells for direct conversion to electricity and raw material for hydrogen and transport fuel production which is a significant pathway to sustainable energy development. Enriched biogas or biomethane can be containerized or injected to gas supply mains for use as renewable natural gas.

Increased access to renewable energy technologies and the continuous electrification across industries make decentralized energy solutions become one of key objectives of energy and climate policies in a growing number of countries [6]. Existing studies provide clear evidence for multiple environmental and socioeconomic benefits of the transition to renewable energy, ...

About the MA in Sustainable Energy (online) Program at Johns Hopkins SAIS. Created by Johns Hopkins University School of Advanced International Studies faculty with input from industry experts and employers, the Master of Arts in Sustainable Energy (online) program is tailored for the demands of a rapidly evolving sector. As a top global university, Johns Hopkins ...

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 ...

The globe has faced severe challenges recently, and environmental deterioration has become more prominent. Therefore, the world has taken several initiatives to deal with environmental issues while the problem remains intact. Interestingly, the OECD economies are the leading example to understand the accurate picture of sustainability across the near ...

Disruptive alterations in all energy systems are necessary for tapping widely available renewable Energy sources. Organizing the energy transition from non-sustainable to renewable energy is often described as the major challenge of the first half of the twenty-first century (Verbruggen et al., Citation 2010).

Akuru et al. (2017) studied energy transition from a renewable energy and climate change perspective, while Gielen et al. (2019) examined the successes and failures of the various countries' national energy plans. Energy transition can also be addressed from a policy perspective, particularly how "just" the transition is; the equality dimensions.

Renewable energy transition is the initiative of the global energy sector to move away from fossil fuels (such as natural gas, oil, and coal) towards renewable energy sources (Hassan et al., 2024).The environmental Kuznets curve (EKC) illuminates the intricate association between environmental decline and economic growth (Wang et al., 2024b) and it is considered ...

Rural China grapples with pervasive energy poverty. This study aims to measure China's rural energy poverty and propose early warning strategies. It establishes a rural energy relative poverty evaluation system based on four dimensions: energy service effectiveness, consumption cleanliness, management integrity, and development sustainability.

The transition to zero carbon, aiming to achieve global carbon neutrality, poses a significant challenge for human society. Against this background, the energy sector is one of the major stakeholders called upon to address this challenge [1].To achieve net-zero emission targets and limit global warming to 1.5 °C by 2050, a sustainable, efficient, competitive, and secure ...

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The Journal of Renewable and Sustainable Energy (JRSE) is an interdisciplinary, peer-reviewed journal covering discovery, generation, conversion and end-use of renewable and sustainable energy (RSE) relevant to

the physical science and engineering communities. Specifically, JRSE focuses on new insights or creative methodologies that addresses the challenges of ...

The current climate and economic crises call for a swift transition to low-carbon energy systems. According to the Intergovernmental Panel on Climate Change (IPCC) [1], renewable energy must supply 70-85% of the world's electricity in 2050. Annual investments in these energy technologies as well as in energy efficiency must be multiplied by a factor of ...

Energy transition is crucial for sustainable development, but its drivers have been neglected due to data limitations. Germany has adopted a low-carbon, secure, cost-effective, and environmentally friendly energy transition policy to achieve its 2050 carbon-neutrality goals. Despite the fact that the sub-components of energy have often been considered, to the ...

Journal of Energy. Volume 2022, Issue 1 8750221. ... biogas will play an extremely important role in the energy transition as a renewable energy fuel resource and feedstock for industrial production of chemical fuels ... These promises to be a power pathway in the global transition to sustainable energy and electricity as well as sustainable ...

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