

Are there publications related to solar power generation from 2001 to 2021?

The current study aimed to identify and analyze publications related to solar power generation from 2001 to 2021. Publication types, such as "Article" or "Review," with terms, such as "solar power generate*," "photovoltaic*," "solar panel*," and "solar cell*," in the title field were retrieved using a bibliometric approach (Fig. 1).

Is solar energy a future energy resource?

The utilization of renewable energy as a future energy resource is drawing significant attention worldwide. The contribution of solar energy (including concentrating solar power (CSP) and solar photovoltaic (PV) power) to global electricity production, as one form of renewable energy sources, is generally still low, at 3.6%.

Does global solar power research increase citations?

This study conducted a bibliometric analysis based on publication metrics from the Web of Science database to gain insights into global solar power research. The results indicate a stable global increase in publications on solar power generation and a rise in citations, reflecting growing academic interest.

Are solar power and energy storage technologies a sustainable future?

The results indicate that solar power generation and energy storage technologies are crucial to achieving a cleaner and more sustainable future, and continued research and development are necessary to improve their efficiency and reduce their costs. Content may be subject to copyright.

Here, in this study, solar energy technologies are reviewed to find out the best option for electricity generation. Using solar energy to generate electricity can be done either directly and ...

The results indicate that research on PV-PO has received widespread attention. Notably, Energy Policy, Renewable and Sustainable Energy Reviews and Energy Research and Social ...

This paper discusses the different types and generations of solar PV technologies available, as well as several important applications of solar PV systems, which are "Large-Scale ...

1 Introduction. Among the most advanced forms of power generation technology, photovoltaic (PV) power generation is becoming the most effective and realistic way to solve ...

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for ...

The paper explores the present state of solar power generation technology, outlines its advantages, and researches the various challenges obstructing its widespread adoption.

Solar energy has attracted global attention as a crucial renewable resource. This study conducted a bibliometric analysis based on publication metrics from the Web of Science database to ...

This article provides a comprehensive literature review of the current state of solar power generation technologies, their economic viability, and the role of energy storage technologies in ...

Solar photovoltaic (PV) technology is clean way of generating electric power directly from solar radiation. Its small to large isolated and grid connected applications have become common in ...

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