

PIENAAR ENERGY (PTY) LTD

Foreign papers on solar power generation



Overview

This study facilitates a comprehensive understanding of the status and trends in solar power research for researchers, stakeholders, and policy-makers. Both technologies, applications of concentrated solar power or solar photovoltaics, are always under continuous development to fulfil our energy needs. Hence, a large installed capacity of solar energy applications worldwide, in the same context, supports the energy sector and meets the employment. This study conducted a bibliometric analysis based on publication metrics from the Web of Science database to gain insights into global solar power research. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity.

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Energies , Section A2: Solar Energy and Photovoltaic Systems

In this section, we aim to collect original and review papers reporting the latest advances in the broad field of solar and photovoltaic systems, including power generation and storage. We will focus on ...

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Review of global sustainable solar energy policies: Significance and

This review employs a comprehensive methodology, encompassing a literature review (2015-2023), analysis of country-specific solar energy policies, empirical data and case studies, and ...



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Renewable electricity - Renewables 2025 - Analysis

Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed ...

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A bibliometric evaluation and visualization of global solar power

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 ...

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Solar energy , Scientific Reports

Solar-assisted tri-generation system with LCPV-CPC and small-scale gas turbine for year-round clean energy in hot-dry climates Mohamed Bechir Ben Hamida, Rassol Hamed Rasheed ...

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Solar energy technology and its roles in sustainable development

This paper highlights solar energy applications and their role in sustainable development and considers renewable energy's overall employment potential. Thus, it provides insights and ...

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The momentum of the solar energy transition



Here we use data-driven conditional technology and economic forecasting modelling to establish which zero carbon power sources could become dominant worldwide.

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(PDF) Solar Power Generation Technique and its Challenges

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



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Solar energy status in the world: A comprehensive review

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...

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A Review Paper on Current State of the Worldwide Solar Energy Generation

By analysing recent data, case studies, and literature, this review aims to provide stakeholders with insights into the achievements and hurdles of solar energy, fostering informed ...

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