

What is photovoltaic (PV) industry?

Photovoltaic (PV) industry is a strategic emerging industry in China, which provides risk resistance and autonomy for energy security by its technology innovation structure.

What is the research on PV industry technology?

Regarding the research on PV industry technology, scholars have mainly focused on the importance to economic development, how to promote technological innovation in the PV industry [20,21], and the impact of government policies on PV technology innovation [22,23,24], among other aspects.

How to develop a technological innovation network of China's PV industry?

Specifically, we use Excel to process the patent technology codes of PV industry, get the co-occurrence frequency of any two technology codes under a certain year, and assign side weights according to it, so as to construct the technological innovation network of China's PV industry.

What is the patent database of PV industry?

According to the Derwent Innovation Index Patent Database (DII), the patent information data of PV industry worldwide are quantitatively analyzed. Referring to the existing literature [41,42], '(photovoltaic\*or solar\*)' was selected as the search topic for the PV industry, and the time span was selected as 1968-2023.

Are PV technology collaboration patents a data source for innovation networks?

Based on evolutionary economics, in this study, PV technology collaboration patents are selected as the data source for the innovation network, not only enriching and expanding the research content of innovation networks but also providing a reference for PV technology innovation [19,22].

### 5.4. Research limitations and prospects

What is ETIP PV SRIA for photovoltaics?

Marko Topi?, ETIP PV Chairman states: "ETIP PV SRIA for Photovoltaics covers science, technology, and engineering as well as socio-economic aspects till 2030 that positions PV in the heart of the clean energy transition."

Photovoltaics have enjoyed the most substantial price learning of any energy technology. Innovation affects photovoltaic performance in more ways, though. ... Disruptive ...

CHANGZHOU, China, June 10, 2020 /PRNewswire/ -- On June 10, Trina Solar Co., Ltd became the first Chinese PV product, PV system and smart energy company to trade on the Shanghai ...

In terms of the technology innovation, Che et al. assessed the effects of regional policies on PV technology

innovation using a large panel data on 260 cities in China from ...

Collaborations and co-creations within the "Holy Triangle of Science, Technology and Industry" have been governing the unprecedented progress in each and every part of the value chain of ...

1. Introduction 1.1. Background. With the intensification of energy shortage and environmental pollution, renewable energy has attracted worldwide attention [1 - 4].The solar ...

5. Anchored Clusters: The Rise and Fall of Solar PV; 6. Star Scientists in PV Technology and the Limits of Academic Entrepreneurship; 7. The Limited Innovation of Small Businesses in the ...

A novel partner selection model that integrates decision rules and resource complementarity is presented, enabling PBMEs to efficiently select DGI partners from a pool of ...

policy lessons on how technology can diffuse successfully in emerging countries. We combine both quantitative and qualitative evidence. On the quantitative side, we rely on a dataset ...

Among these energies, the greatest growth is in solar photovoltaic. While the cross-strait (China and Taiwan) solar photovoltaic industry makes up over half of the global ...

China is rich in solar energy that over 2/3 of the country has more than 2200 h of sunshine annually (Zhang and He, 2013) and has long dominated China's energy structure ...

In the 2014 legislative session, the General Assembly changed the Board's name to Board of Science, Technology & Innovation. To meet these goals, the Board works to investigate new ...

The solar photovoltaic (PV) industry has undergone a dramatic evolution over the past decade, growing at an average rate of 48 percent per year to a global market size of 31 ...

11 IISA is an independent board that provides strategic advice to government on industry, innovation, science and research matters. IISA also monitors and oversees several ...

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Solar photovoltaic (PV) technology has developed rapidly in the past decades and is essential in electricity generation. In this study, we demonstrate the relationship between PV incentive policies, technology ...

Solar energy offers several advantages, such as cleanliness, safety, accessibility, and sustainability, making it a key contributor to the development of low-carbon and circular ...



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