

The objective of this article is to identify the technological development of photovoltaic cells by the analysis of patents. The Derwent Innovations Index (DII) database of Thomson Derwent was ...

High efficiency tunneling oxide passivated contact (TOPCon) solar cell is the traditional PN junction structure, combined the advantages of using a thin film of the ...

Photovoltaics is a fast growing market: The Compound Annual Growth Rate (CAGR) of PV installations was about 26% between 2013 to 2023. The intention of the 'Photovoltaics Report' is to provide up-to-date information on the PV market ...

The analysis shows that 95% of the PV patent applications were filed by inventors from seven countries: Japan, Korea, ... According to a recent report published by the United Nations in 2018, ... Exploring Technology Evolution in the Solar Cell Field: An Aspect from Patent Analysis. Data and Information Management, Volume 1, Issue 2, 2017, pp ...

Since GIS leads to the global PV value chain segmentation, the PV technology innovation has attracted academic attention. Currently, most studies explore the PV technology innovation at a single country level (Zhao and Wei, 2020) or conduct a comparative analysis of the developing PV industry across two or more countries from a macroeconomic perspective (Choi ...

DOI: 10.1016/J.RSER.2018.05.033 Corpus ID: 115667205; Photovoltaic technologies: Mapping from patent analysis @article{Sampaio2018PhotovoltaicTM, title={Photovoltaic technologies: Mapping from patent analysis}, author={Priscila Gonçalves Vasconcelos Sampaio and Mario Orestes Aguirre González and Rafael Monteiro de Vasconcelos and Marllen Aylla Teixeira ...

This article reports a comparative analysis of the thrust in solar photovoltaic (PV) research during 1981-1988 and 2001-2008. ... cadmium telluride and amorphous silicon cells. Patent analysis of photovoltaic cells has been based on the assumption that a patent is a good example for identify the technological knowledge developed by the ...

This work aims to present a market survey and patent analysis on the use of robots to perform cleaning tasks on photovoltaic panels. For that, the Brazilian and international ...

This study examines technological collaboration in the solar cell industry using the information of patent assignees and inventors as defined by the United States Patent and Trademark Office. Three different collaborative types, namely local (same city), domestic (different cities of the same country), and international collaboration, are discussed. The general status ...

They include Schott Solar, SunPower and PowerLight patents for PV mountings and shingles, a Stanford patent describing a bi-level contact PV cell, a DOE patent for multi-junction PV cells, ...

An Analysis of the Influence of SETO-funded Photovoltaics Patents Report prepared by 1790 Analytics LLC
List of Figures Figure 1 - Number of PV Patent Families funded by SETO/Other DOE by Priority Year (5-Year ... funded PV patent families in this analysis may be SETO-funded. As such, the results

MULTI-CLIENT PATENT LANDSCAPE ANALYSIS IP Overview is a report that analyses all patent families filed on a given thematic Available reports in engineering sciences are Carbon nanotubes, Photovoltaic cells (3 reports), LiMPO4 batteries TAILOR-MADE PATENT LANDSCAPE ANALYSIS IP Overview On Demand is similar to IP Overview but 100% tailored ...

The results indicate that 1) the number of patents deposited on photovoltaic cells grows every year, 2) the main depositor countries are the United States, China, Japan, Germany and South Korea, 3) American and Japanese organizations stand out with the highest number of patent registrations, 4) the main areas of knowledge were Engineering, Instruments ...

Energies 2020, 13, 3060 4 of 16 to the information provided by the patent literature. However, the development trend of TOPCon solar cell technology is not found by using the latest patent ...

activities in solar cell industry use patent data; these studies are mostly conducted by the same research group. The researchers monitor the key technology trends in solar cell industry by combining chance discovery and survival analysis with patent data (Wang and Chiu 2010; Chiu et al. 2009, 2010).

The European Commission (EC) has funded perovskite solar cell (PSC)-related projects since 2013, promoting their advancement within several subject areas. In this work, ...

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