Photovoltaic Cell Industry Patent Analysis Report

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...

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 ...

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 ...

Although keywords are among the most popular and convenient methods for technology-based patent analysis [69, 78], it has some drawbacks when applied alone. Besides being time consuming, some relevant patents can be falsely excluded because of the various ways a technology can be described in the patent text which sometimes do not include the ...

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Research limited to organic PV cells and patents applied only in South Korea, USA, Europe, China and Japan. Emerging PV technologies tested and developed on a smaller ...

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The article is organized in the following manner: Section 2 contains the literature review on photovoltaic cells technologies and patent analysis. Section 3 presents the methods as well as the detailed research procedure. Section 4 includes the analysis of the photovoltaic cells patents. Finally, the last section presents the conclusions ...

In this study, we employ the patent portfolio proposed by Ernst to embark on the analysis of technology development regarding the a-Si thin film solar cell and find that the major technology...

The analysis shows that 95% of the PV patent applications were filed by inventors from seven countries: Japan, Korea, China, USA, Germany, Taiwan, and France. Most patents were filed by companies and related to thin-film and crystalline-silicon cells as well as panel encapsulation and supporting structures.

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