

Analysis of patents for energy storage materials

Let's face it, patents aren't exactly known for their Hollywood glamour. But in the world of energy storage, they're the backstage passes to the greatest energy revolution ...

Green and low-carbon patents refer to patents with green and low-carbon technologies as their subject matters. These technologies encompass five primary fields of technology: carbon ...

Alert news. Invention analysis Various options of energy storage are described in patented solutions in the field of solar energy. They include such technologies as those using latent heat, molten materials, ...

Abstract The ceiling of energy density of batteries in materials level motivates the innovation of cell, module and pack that constitute the battery assembly for electric vehicles ...

Safe and flexible hydrogen storage technology (HST) emerges as a crucial element in driving the industrialization of hydrogen energy. Consequently, HSTs are being ...

This report describes the results of an analysis tracing the technological influence of geothermal energy research funded by the U.S. Department of Energy (DOE)'s Geothermal Technologies ...

Energy storage innovation & patent reviews contain detailed analyses of the global patent landscape and publicly available technical information, which enables assessments of product launch timing, ...

Aiming to bring a better understanding to the field of energy storage and observe the gaps that separate the emerging trends in academia and industry, the present article ...

Patent documents provide knowledge about which countries are investing in certain technologies and make it possible to identify potential innovation trends. The aim of this ...

In this paper, a patent analysis is performed on 6 popular cathode materials by comprehensively considering performance comparison, development trend, annual installed capacity, ...

S-curve analysis further highlights a remarkable surge in patent filings for EVs and PBs since 2011. Notably, the patent CN-101013763-A holds significant influence in driving ...

This article delves into the patent landscape of the carbon capture industry, revealing the top companies, groundbreaking inventors, technology overview and research centers driving these advancements. This ...

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Lithium-ion batteries (LIBs) is now a cornerstone technology to curb carbon emission by enabling electric vehicles and grid-scale energy storage. However, LIBs are highly ...

These selected patent documents and their landscape analysis aim to provide a systematic foundation for future developments in electrolyser technologies and materials ...

Energy storage innovation & patent reviews / deep dives Energy storage innovation & patent reviews contain detailed analyses of the global patent landscape and ...

Abstract: The development of key materials for solid-state lithium batteries, which represent next-generation high-performance energy storage solutions, is essential for enhancing their energy ...

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