

What is new energy power battery technology?

New energy power battery technology is a highly patent-intensive field, and patent protection and cooperation are crucial to the development and application of the technology. Patents are the result of technological innovation and an important indicator of technological innovation behavior (Archibugi 1992).

Is the NEV battery industry a new industry?

The development of the battery industry is crucial to the development of the whole NEV industry, and many countries have listed battery technologies as key targets for support at a national strategic level, which means that the NEV battery industry as a new industry has stepped on the stage of the development of this era. .

How can future research help China's new energy vehicle power battery industry?

Future research can strengthen the research on international cooperation networks, including the analysis of international patent cooperation mode, characteristics, and trends, to provide broader development space and cooperation opportunities for China's new energy vehicle power battery industry. Data will be made available on request.

How has the new energy vehicle power battery Patent Cooperation network evolved?

Phased evolution of the patent cooperation network: From 2008 to 2021, the evolution of the new energy vehicle power battery patent cooperation network presents significant phased characteristics, which not only reflect the rapid development of technology but also reflect the deepening of the industry-university-research cooperation mode.

Why is the power battery industry facing innovation breakthroughs?

Against the background of patent proliferation and open competition, the power battery industry is facing multiple innovation breakthroughs such as the research and application of new battery materials, high-efficiency electrode design multi-power supply integration, etc.

Why is the demand for NEV batteries increasing?

In recent years, the explosive development of NEVs has led to increasing demand for NEV batteries, which has led to the rapid development of the NEV battery industry, resulting in increasing prices of raw materials manufactured and sold by raw material manufacturers, i.e., the upstream battery industry.

China's State Council issued the New Energy Vehicle Industry Development Plan (2021-2035) ... Their collective efforts are required to establish a comprehensive battery recycling network and value chain, facilitating the efficient recycling and remanufacturing of used batteries. By establishing an effective circular economy model, the ...

The Chinese government attaches great importance to the power battery industry and has formulated a series

of related policies. To conduct policy characteristics analysis, we analysed 188 policy texts on China's power battery industry issued on a national level from 1999 to 2020. We adopted a product life cycle perspective that combined four dimensions: ...

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Take the draft of Development Plan for the New Energy Vehicle Industry (2021-2035) released in December 2019 as an example, it mentions the industry will breakthrough technologies in key components, build supply system for technologies in key components using power battery and management system, drive motor and power electronics, ...

Thanks to China's "three verticals and three horizontals" strategy and the important deployment of new energy policies, the new energy vehicle industry has developed rapidly. The rapid development has also led to some problems. From a macro point of use, patent is an important index to reflect the technological innovation of the industry, which can provide ...

6 ???· The Inflation Reduction Act's provisions spurred hundreds of billions in new manufacturing investments across the country, passing nearly \$600 in total private investment since it was passed in 2022. Solar energy, wind energy, ...

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As the world transitions to renewable energy, 2024 has been pivotal in advancing sustainable battery technology. Several promising innovations and trends are helping reshape the industry, making it possible to ...

Worldwide, yearly China and the U.S.A. are the major two countries that produce the most CO₂ emissions from road transportation (Mustapa and Bekhet, 2016). However, China's emissions per capita are significantly lower about 557.3 kg CO₂ /capita than the U.S.A 4486 kg CO₂ /capitation. Whereas Canada's 4120 kg CO₂ /per capita, Saudi ...

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Battery Network has compiled the top ten international news stories of the battery and new energy industry in 2024, reviewing the year to discern opportunities and risks, and ...

The CLNB 2025 New Energy Industry Chain Expo (2025 SMM (10th) Battery Industry Chain Expo & 2025 SMM (10th) Energy Storage Industry Chain Expo), co-organized by the China ...

Energy security and independence are significant challenges facing governments all over the world. In the UK, the Government's recently launched Clean Power 2030 plan highlights energy security as one of the key challenges facing the country. Investment in renewable, clean, homegrown energy is set out as the solution - not only guaranteeing ...

To deeply analyze the cooperative patent application and distribution trend in the field of power batteries, this paper collects the patent cooperation data of China's new energy ...

1 ??· In this second instalment of our series analysing the 2024 Battery Report, we explore the continued rise of Battery Energy Storage Systems (BESS). Described by The Economist as ...

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