

Does China have a future for lithium-ion batteries?

(Photo taken from CATL homepage) OSAKA -- China is increasing its presence in the race to develop replacements for the lithium-ion battery, a Nikkei analysis shows. A country-by-country tally of patents related to post-lithium-ion batteries over the past 10 years shows China in the lead, accounting for more than half of all patents.

Which EV battery companies dominate the global market?

Likewise, Chinese enterprises dominate in the global share of EV battery manufacturing. CATL accounts for 37 percent of the global EV battery market followed by FDB with 16 percent, giving China's top two competitors alone over half the global market. (See figure 6.)

Who are China's leading EV battery manufacturers?

CATL accounts for 37 percent of the global EV battery market followed by FDB with 16 percent, giving China's top two competitors alone over half the global market. (See figure 6.) The twain are followed by LG Energy and Panasonic, with 14 percent and 6 percent of the market, respectively.

Which country makes the most EV batteries in the world?

Figure 6: Leading EV battery manufacturers' global market shares, 2023 As of 2022, China accounted for 62 percent of all EVs sold in the world, a tremendous increase from the 0.1 percent of global EV sales Chinese enterprises accounted for in 2012.

How many patents are there in China?

Patents China's number of Patent Cooperation Treaty (PCT) patent publications in motor vehicle technologies increased from 25 in 2013 to 201 in 2023. (See figure 14.) That represents about a 700 percent increase over that period (albeit from a low base).

What percentage of PCT Patents are owned by China?

When considering global shares of PCT patent publications in this field, China's share increased from 2.4 percent in 2010 to 26.9 percent in 2020. (See figure 17.) That represents a 24.5 percentage point increase over that period. The United States also experienced an increase in its global share by about 6.5 percentage points.

LG Innotek Yantai Co., Ltd. (LG Innotek) LG Innotek Yantai Co., Ltd. (LG Innotek) is the most representative high-tech enterprise specializing in electronic communication in China. Established on August 10, 2004, with full investment by LG Innotek of Korea, it has become a leading supplier of electronic components, serving as a wholly owned subsidiary of LG Electronics.

2 ???· Discovery has identified the top key players, startups & unicorns, fast-growings, news entrants in 2022, ranking from different perspectives, including patent filing intensity, academic ...

In 2023, the Chinese government extended \$809 million in subsidies to EV battery maker CATL (more than double the \$401 million it provided in 2022) and \$208.9 million to EVE Energy (China's fourth-largest EV battery producer). [185]

Carmaker FAW Group ranked second with 777 patents, followed by lithium battery supplier Amperex Technology with 712 and electric vehicle giant BYD with 662. Aulton New Energy Automotive Technology, which operates EV converter stations, was fourth with 521.

The Guangdong Zhongce Intellectual Property Research Institute has released the 2024 China Enterprise Patent Innovation Top 100 List where Huawei stood first. Other top 5 rankers in the list including Huawei are State Grid, Tencent, OPPO, and BOE. The top 10 listing counts Alibaba at seventh and ZTE in the ninth spot.

China has been focused on battery patent applications as Korean companies have outpaced China in terms of patent competitiveness. When KIPO analyzed trends in battery patents filed in two or more countries over the 10-year period from 2011 to 2020, LG Energy Solution was the world leader with 15,318. Samsung SDI came in second with 8,157. In fourth ...

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As the battery technology development cycle gets shorter and shorter, China heats up the race to secure patents, ratcheting up tension in the battery industry. China's CATL, the world's No. 1 battery maker by market ...

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ELB Energy Group is a high and new tech enterprise specialized in manufacturing customized lithium batteries for all kinds of application. Established in 2010, mainly engaged in the R & D, manufacturing and sales of lithium Batteries, including ...

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Currently, it has 59 national patents, and also won the "China Patent Excellence Award" awarded by the State

Intellectual Property Office. EVE lithium battery company. The field of primary lithium batteries such as ...

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The market demand for battery management systems in China has grown steadily, and companies are scrambling to deploy the battery management system business. According to statistics, the scale of China's BMS market demand in 2020 is 9.7 billion yuan, a year-on-year increase of 6.6%. It is expected that the BMS market size will exceed 12 billion ...

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