

# Does China have patents for solid-state battery technology

Will China become a juggernaut of solid-state batteries?

China is looking to establish itself as a leader in solid-state batteries by creating a massive consortium of major battery manufacturers, researchers, and government officials. China already leads the battery industry in this regard.

Will China build a solid-state battery supply chain by 2030?

Aiming to build a supply chain for solid-state batteries by 2030, Beijing in January set up a consortium, the China All-Solid-State Battery Collaborative Innovation Platform (CASIP), which brings together government, academia, and industry, including EV battery rivals CATL and BYD.

How many patents does Toyota have for solid-state batteries?

According to the online edition of the influential Chinese media outlet Yicai, Toyota holds more than 1,300 patents for solid-state batteries, while Chinese battery companies have fewer than 100 for all solid-state batteries.

Could China's all-solid-state batteries revolutionize the EV market?

In a move that could revolutionize the EV market, China's leading auto and battery manufacturers are forming an alliance to commercialize all solid-state batteries. According to Nikkei Asia, the China All-Solid-State Battery Collaborative Innovation Platform, or CASIP, was formed last month.

Will solid-state EV batteries make China a powerhouse?

Chen Qingtai, head of China EV100, argued that solid-state EV batteries can shift the industry's power balance. Working together will ensure China becomes an "automotive powerhouse." Although many others, including Toyota, have promised to bring solid-state EV battery tech to market for years, there's still little show.

How many patents does Toyota have for EV batteries?

Toyota has over 1,300 patents for all-solid-state batteries, while Chinese companies have fewer than 100. The alliance aims to ensure China remains ahead of the game. Six of the top ten global battery makers, including BYD and CATL, working together to develop solid-state EV batteries will be something to keep an eye on.

Inputs revealed that Huawei has applied for the solid-state battery patent with the title - "Doped Sulfide Materials and Preparation Methods, Lithium-ion Batteries." This ...

Lithium-ion batteries for current EVs use liquid electrolytes. On the other hand, all-solid-state batteries feature solid electrolytes. By changing electrolytes from liquid to solid, batteries can achieve a variety of outstanding battery ...

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The paper adopts the technology of Natural Language Processing (NLP) to analyze patent documents and reveal the advances and opportunities for developing solid-state battery technology by constructing the patent Information Relation Matrix (IRM). This paper finds innovation activities in developing solid-state batteries have been increasingly active in recent ...

Nikkei Asia reports that the Japanese company reportedly has more than 1,300 patents for solid-state batteries while Chinese companies have less than 100 combined. Toyota has partnered...

Patent filings at the European Patent Office (EPO) for solid state batteries have been growing on average by 25% per year since 2010. 6 In 2018, they represented more than 8% of all patent filings in lithium-ion technology, compared with 3% in 2010. 7 In CPC class H01M10/0562 8 alone, the number of patent families filed in the US and Europe has nearly ...

China's battery and car makers have united as part of a government-led drive to commercialize all solid-state batteries, challenging Japan and the West in an area of technology that could revolutionize the electric vehicle market.

As of May this year, the number of global patent applications for key solid-state battery technologies was 20,798, of which 7,640 were from China, accounting for 36.7%; in ...

The big question is whether China's researchers can surpass Toyota, which reportedly has more than 1,300 patents for solid-state batteries, while Chinese battery companies have less than a hundred.

Inputs revealed that Huawei has applied for the solid-state battery patent with the title - "Doped Sulfide Materials and Preparation Methods, Lithium-ion Batteries." This invention will resolve the challenging battery problem: the breakdown of liquid electrolytes. Huawei will use a doped sulfide solid material instead of any ...

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Not just in China. Outside China, there is promising news about solid state technology too. The U.S. company QuantumScape (whose investors include Volkswagen Group), announced on December 22 that it had produced a prototype solid state battery. Volkswagen Group stated in 2021 that it expected solid state batteries to be in use by 2025, while Hyundai ...

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China's emergence as a leader in this technological race is undeniable, underscored by its extensive portfolio of tens of thousands of solid-state battery patents. This ...

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Huawei is set to make a significant advancement in energy storage with its latest development in solid-state battery technology. The tech giant has recently unveiled a patent for a...

BEIJING -- China's battery and car makers have united as part of a government-led drive to commercialize all solid-state batteries, challenging Japan and the West in an area of technology that ...

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