



# Lithium battery patent company ranking

"Inorganic electrolyte-based solid-state lithium-ion batteries represent a thriving patent landscape, involving more than 7,300 inventions from more than 1,000 different entities," says Fleur Thissandier. Japanese companies dominated the solid-state Li-ion battery patent landscape until 2017.

More than 590 patent applicants can be found on the NMC Lithium-ion Battery patent landscape. ... the report provides a ranking and analysis of the relative strength of the top patent holders ...

NATIONAL BLUEPRINT FOR LITHIUM BATTERIES 2021-2030. UNITED STATES NATIONAL BLUEPRINT . FOR LITHIUM BATTERIES. This document outlines a U.S. lithium-based battery blueprint, developed by the . Federal Consortium for Advanced Batteries (FCAB), to guide investments in . the domestic lithium-battery manufacturing value chain that will bring equitable

The Lithium top 100 is Discovery PatSnap" annual ranking of the top 100 Most Patent Filing In 5 Years Lithium Fast-growings in the world. Discovery has identified the top key players, ...

Batteries for light electric vehicles (cars, SUVs, LCVs, and pickup trucks) had a faster production growth rate (+40%) than EVs (+35%) in 2023, as the market had several models introduced with ...

Battery Monitor Battery Monitor Dublin, Feb. 22, 2024 (GLOBE NEWSWIRE) -- The &quot;Solid-State Batteries Patent Quarterly Monitor&quot; report has been added to ResearchAndMarkets "s offering. The solid ...

NMC Lithium-ion Batteries - Patent Landscape Analysis | July 2017 | Ref. : KM17008 TABLE OF CONTENTS INTRODUCTION 4 Introduction to Lithium-ion batteries Scope of the report Key features of the report Objectives of the reports METHODOLOGY 18 Patent search, selection and analysis Search equations Terminologies for patent analysis

Significant Patent Holdings for Ceramic Separator Technology. Woven ceramic separators prevents battery (cell) failure at high temperatures ... -mile batteries" as they have the Best Cycle Life in Industry and give the lowest cost of ownership compared to other lithium ion batteries, fuel cells and lead acid batteries. ... the company is not ...

The company offers cutting-edge battery solutions for various applications, ranging from EVs to renewable energy storage systems. 4. Eve Energy Co. Ltd. Website: evebattery ; Headquarters: Huizhou, Gng, China; Founded: 2001; Headcount: 10001+ LinkedIn; Evebattery is a company specializing in the development and manufacturing of advanced ...

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Nano One Materials Corp. ("Nano One or the "Company") is a clean technology company with a patented process for the production of lithium-ion battery cathode active materials (CAM) that enable secure and resilient supply chains by driving down cost, complexity, energy use and environmental footprint. Nano One is pleased to report on the continued ...

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 ...

The global lithium-ion battery market reached US\$ 51.0 Billion in 2023. The market is primarily driven by the rising product applications across numerous industries due to the enhanced energy density, lightweight, environment ...

With the rapid development of new energy vehicles and UPS power storage industry. The demand for lithium batteries has been greatly stimulated, and various companies have begun to enter the lithium battery manufacturer industry. China's lithium-ion battery market is also booming. As of September 2021, there are 47,400 lithium-ion battery ...

The Lithium top 100 is Discovery PatSnap" annual ranking of the top 100 Most Patent Filings Lithium Key Players in the world. Discovery has identified the top key players, ...

With 13,145 Lithium-Ion Batteries related patents published between 2002 and 2022, Samsung SDI Co Ltd holds the most number of Lithium-Ion Batteries patents across the world. The ...

NMC Lithium-Ion Batteries Patent Landscape SAMPLE - Download as a PDF or view online for free ... Ranking of patent assignees IP dynamics of patent assignees IP leadership Prior art strength index IP blocking potential Most cited patents Patents split by type of NMC materials Time ... IP due diligence Assess the patent portfolio of a company ...

The first patents on NMC Li-ion batteries were filed by Japanese and Korean companies including Sony, Samsung and LG Chem in the late 1990s. ... More than 590 patent applicants can be found on the ...

The Lithium-ion battery top 10 is Discovery PatSnap" annual ranking of the top 10 Most Patent Filings Lithium-ion battery Key Players in the South Korea. Discovery has identified the top key players, startups & unicorns, fast-growings, news entrants in 2022, ranking from differnt perspectives, including patent filing intensity, academic research capability, news media heat.

From 2010 to 2016, while working at a major battery materials manufacturer in Switzerland, he was a co-inventor of 7 patent families related to lithium-ion batteries. He was also in charge of a collaboration with



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the Paul Scherrer Institute, evaluated outside technologies for corporate strategy, and made customer visits to battery manufacturers ...

Today, developed and commercialized solid-state batteries are mainly Lithium metal and lithium-ion batteries. This trend is also observed in patents. However, in 2017, some companies published new patent families related to other solid batteries technologies.

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

The article explores the latest advancements of 10 solid-state battery companies working on the tech to make it better. October 29, 2024 +1-202-455-5058 sales@greyb . Open Innovation; Services. Patent Search ...

Ranking in no particular order. BYD. ... The company has a number of invention patents, utility model patents, software copyrights and other intellectual property rights, and has obtained the title of "High-tech Enterprise" in Chongqing. ... The company's lithium battery protection board is widely used, such as digital batteries, energy ...

oRanking of main patent assignees. ... Main patent assignees Japanese companies have dominated the patent landscape, but the last 3 years have seen an explosion in Chinese patenting activity, while automakers and numerous pure-play newcomers are entering the game. ... Solid-State Li-ion Batteries -Patent Landscape Analysis -October 2021

A lithium-ion battery includes a positive electrode including a positive current collector, a first active material, and a second active material. The battery also includes a negative electrode having a negative current collector and a third active material, the third active material including a lithium titanate material. The first active material, second active material, and third active ...

The patents will be categorized by supply chain segments (electrode, electrolyte, separator, battery cell, battery pack/system) and battery technologies (Li-ion, Ni-MH, Redox flow, Lead, Li Air, Li-S, Na-ion, Mg-ion, solid-state, thin film/flexible, lithium metal electrode, NMC cathode for Lithium battery, Silicon anode for Lithium battery ...

A patent analysis method has been applied to study patenting activities on development of liquid electrolytes for lithium-ion batteries. The method is done via two steps: First, planning a ...

This report lists the top Lithium-ion Battery companies based on the 2023 & 2024 market share reports. Mordor Intelligence expert advisors conducted extensive research and identified these brands to be the leaders in the ...

The Lithium-ion battery top 100 is Discovery PatSnap" annual ranking of the top 100 Most Patent Filing In 3



# Lithium battery patent company ranking

Years Lithium-ion battery Fast-growings in the China. Discovery has identified the top key players, startups & unicorns, fast-growings, news entrants in 2021, ranking from differnt perspectives, including patent filing intensity, academic research capability, news ...

In 2012, Chinese companies supplied lithium-ion batteries for just 10 per cent of the EVs sold worldwide. It was by 2019 that the country became undisputed leader with a 50 per cent share in the global production capacity. ... Toyota Motor is the leading holder of solid-state battery patents holder. So far Japanese companies have dominated the ...

Between 2016 and 2020, Toyota increased patents in its possession by roughly 40%. During that same span, Samsung more than doubled its patents, while LG Chem tripled its count. South Korean companies possess numerous patents directly concerning real-world performance, such as the life span of batteries. Sony Group was the first company to ...

This report lists the top Lithium-ion Battery companies based on the 2023 & 2024 market share reports. Mordor Intelligence expert advisors conducted extensive research and identified these brands to be the leaders in the Lithium-ion Battery industry.

This presentation will discuss recent notable decisions in U.S. litigation of lithium-ion patents, and what those cases can teach us about infringement and invalidity issues in lithium-ion patents. The presentation will focus on the role played by weight/volume claim terms, the duty of disclosure and invention disclosure statements during prosecution, the importance of ...

The Lithium-ion battery top 100 is Discovery PatSnap" annual ranking of the top 100 Most Patent Filing In 5 Years Lithium-ion battery Fast-growings in the world. Discovery has identified the top key players, startups & unicorns, fast-growings, news entrants in 2022, ranking from differnt perspectives, including patent filing intensity, academic research capability, news ...

China is the undisputed leader in battery manufacturing, dominating the global production of essential battery materials such as lithium, cobalt, and nickel. Chinese ...

Canada's impressive second position in the global lithium-ion battery supply chain rankings can be attributed to multiple factors that make it an attractive location for both domestic and international players. ... Canada ...

The global lithium-ion battery market reached US\$ 51.0 Billion in 2023. The market is primarily driven by the rising product applications across numerous industries due to the enhanced energy density, lightweight, environment-friendly nature, long operating life, and high-power capacity of lithium-ion batteries.

Contemporary Amperex Technology Co., Limited. (CATL) was established on December 16, 2011. Is a global leading new energy innovation technology company, focusing on the development, production and sales of new energy vehicle power battery systems and energy storage systems.. Including lithium-ion



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batteries, lithium polymer batteries, fuel cells, power ...

This statistic shows the leading 10 countries for publishing solid-state battery patents in 2018 and the number of patent families published.

Key figures and rankings about companies and products ... This statistic shows the top 20 publishers of solid-state battery patents in the U.S. between 2010 and 2019 and the number of patents that ...

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