



# New Energy Solid-State Battery Patent Ranking

With the growing number of players involved in solid-state battery development, the variety of newly established solid-state battery consortiums, and the strong interest of EV/HEV makers (Toyota, BMW, Volkswagen, Renault-Nissan-Mitsubishi Alliance, Hyundai), the solid-state battery is likely entering a new era.

A solid-state battery developer in China has unveiled a new cell that could help change the game for electric mobility. Tailan New Energy's vehicle-grade all-solid-state lithium batteries offer ...

A solid-state battery of Comparative Example 2 was obtained in the same manner as in Example 1, except that in production of a negative electrode active material, a THF suspension containing Li<sub>3</sub>PS<sub>4</sub> was used instead of the THF-EtOH solution containing Li<sub>6</sub>PS<sub>5</sub>Cl and the graphite particle and the THF suspension containing Li<sub>3</sub>PS<sub>4</sub> were ...

QuantumScape's innovative solid state battery technology brings us into a new era of energy storage with improved energy density, charging speeds and safety. ... The higher energy density of QuantumScape solid-state lithium-metal cells, at our commercial target of 800-1,000 Wh/L (as of Dec. 2023), could translate to more range in the ...

Renewable energy capacity 2023 by country ... Key figures and rankings about companies and products ... This statistic shows the top 20 publishers of solid-state battery patents in the U.S ...

Major players in the solid state battery market are Cymbet, Robert Bosch GmbH, SolidEnergy System, Toyota Motor Corporation, Solid Power, Excellatron Solid State, BrightVolt, Samsung SDI Co. Ltd ...

Solid Electrolytes for Li-ion Solid-State Batteries Patent Landscape, 2019 Research Report - ResearchAndMarkets October 23, 2019 10:37 AM Eastern Daylight Time

Knowmade's analysts have selected and analyzed more than 14,400 patent filings grouped into 7,300+ patent families (inventions) related to solid-state Li-ion batteries with inorganic solid electrolytes.

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.

They focus on research and development rather than full-scale manufacturing. They then license their unique Goliath solid-state battery design to manufacturers. Thus, Ilika offers investors a way to enter the solid state battery market with less exposure to manufacturing risks. Tier 2: Established Companies with Solid-State Battery Investments



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Japanese players have a good IP position in the solid-state Li-ion battery field. Solid-state batteries with inorganic solid electrolytes hold a key position in the booming developments to get safer Li-ion batteries for electrical vehicles (EV) ...

oRanking of main patent assignees by supply chain segment ... etc. Solid-state battery patents and technologies are also tracked and analyzed in the Solid-State Batteries Patent Monitor. 5 ... Sila Nanotechnology and Forschungszentrum Jülich published new patent families related to solid-state sodium-ion batteries (WO2017059838, WO2017106563 ...

Along with Tokyo-based research firm Patent Consult, Nikkei studied patent applications for solid-state battery tech in ten countries and territories filed from 2000 through the end of March of ...

Toyota was the clear leader with 1,331 known patents, followed by Panasonic with 445 patents. In comparison, the third-place company--Idemitsu Kosan--holds 272 patents, according to the report...

Overview of the 2017 worldwide patenting activity for each supply chain segment and each battery technology New patent applications; New granted patents; Expired or revoked patents; Ranking of main patent applicants by supply chain segment and battery technology ... Ni-MH, Redox flow, Lead, Li-Air, Li-S, Na-ion, Mg-ion, solid-state). 2018 ...

Nikkei has partnered with Tokyo research company Patent Result to pore over solid-state battery patent applications submitted to the World Intellectual Property Organization and another group. The study looked at applications turned in between 2000 through the end of March from 10 countries and territories.

Related Links. Global Solid-State Battery Market by Type (Single-cell, Multi-cell), Capacity (Below 20 mAh, 20-500 mAh, Above 500 mAh), Battery Type (Primary, Secondary), Application (Consumer ...

UMD top ranked U.S. university for solid-state battery research publications. energy; storage; battery; Solid-state batteries are considered the ultimate future of energy storage for electric vehicles and consumer electronics. ... "The number one global ranking in citation impact speaks to the quality of the University of Maryland's solid ...

Talent said its solid-state battery cell prototype has an energy density of 720 Wh/kg, which is twice the energy density of Nio supplier WeLion's semi-solid-state battery cell. (Image credit: Talent New Energy) Chinese ...

In 2022, more than 320 new patent applicants entered the solid-state Li-ion battery-related patent landscape, with three-quarters filing only one patent family (i.e., unique invention). Most of these IP newcomers are Chinese companies ...

Most of major companies operating on solid-state batteries plan commercialization by 2025. In this context,



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Knowmade releases this year a new patent landscape report covering the whole ...

Overview of the 2017 worldwide patenting activity for each supply chain segment and each battery technology  
New patent applications; New granted patents; Expired or revoked patents; Ranking of main patent applicants by supply ...

Solid-State Battery Technology ; Products. Cell Technology; Infinity Battery Systems; Low Voltage ...  
Infinity Battery Technology At Electrovaya, our endeavour has been to continually invest in researching new materials and testing new chemistries that truly push the bar of excellence. ... Significant Patent Holdings for Ceramic Separator ...

Japanese automaker Toyota leads in solid-state battery patents, having been awarded some 8,274 solid-state battery grants over the past three years, according to GlobalData's patent analytics.

Leadership in Solid-State Battery Technology. ... According to a 2023 Nikkei Economics report, the company has achieved the highest global ranking in sodium-ion battery intellectual property value. Transforming the EV Battery Landscape. ... Solidion has been granted 20 new patents, expanding its intellectual property portfolio related to ...

Murata Manufacturing is one of the top patent filers in solid-state batteries. The company has developed a new electrolyte for electric vehicles (EVs).

It uses patent claims collected between 2010 and 2021 from the domain of solid-state battery technology to extract and transform material information. This study relies on 1-mode network analysis to construct a material network and a 2-mode network analysis is applied to quantify the extent of the chemical portfolios of assignees.

This patent, titled "All-Solid-State Battery System Provided With Pressurizing Device," was published on December 28, 2023, and signifies a significant step forward in Hyundai's pursuit of ...

Solid-State Battery: A New Battleground. Range, charging, and safety risks are the biggest challenges of lithium-ion batteries use in EVs. Solid-state batteries technology is here to resolve these issues. These batteries do away with liquid electrolytes used in conventional lithium-ion batteries. Further, a solid-state battery has a larger ...

oSolid-State Batteries Patent Monitor Japanese players have a good IP position in the solid-state Li-ion battery field Solid-state Li-ion batteries with inorganic solid electrolytes Main patent assignees Japanese companies have dominated the patent landscape, but the last 3 years have seen an explosion in

The publisher's analysts have selected and analyzed more than 14,400 patent filings grouped into 7,300+



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patent families (inventions) related to solid-state Li-ion batteries with inorganic solid ...

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

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