



The company with the most lithium battery patents is

Initially, a search using the keywords is conducted on the Lens website and in the step-by-step searching, the most relevant patent documents are found. Firstly, using the "energy storage system" a total of 847,461 ($n = 847,461$) patents were found. Secondly, "battery" was used and a total of 272,904 ($n = 272,904$) patents were obtained.

Forward-looking statements are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking statements or forward-looking information, including but not limited to: general ...

This statistic shows the leading owners of solid-state battery patents in 2018 and the number of patent families published.

With transportation responsible for a significant percentage of global greenhouse gases, two technologies have emerged as viable solutions for decarbonisation -- battery electric vehicles and hydrogen fuel cell vehicles. Here, we explore the science and patent landscape to reveal which is likely to become the most viable alternative to petrol- and diesel-powered ...

Figure 15 - Percentage of Leading Advanced Batteries Company Patent Families Linked via Citations to Earlier VTO/Other DOE-funded Advanced Batteries Patents 26 Figure 16 - Citation Index for Leading Companies" Advanced Batteries Patents, plus VTO-funded and Other DOE-funded Advanced Batteries Patents 32 Figure 17 - Number of Patent Families ...

Patent analysis reveals that South Korean companies are likely to dominate the lithium-ion battery patent landscape in the near future, surpassing Chinese, Japanese and US firms in both quantity and quality.

About RecycLiCo Battery Materials RecycLiCo Battery Materials is a critical minerals company focused on the upcycling of lithium-ion battery waste into high-value battery cathode materials, using its closed-loop RecycLiCo(TM) Patented Process. With minimal processing steps and up to 99% extraction of lithium, cobalt, nickel, and manganese, the upcycling ...

Nitin Gupta, CEO and co-founder of Attero (India's largest end-to-end e-waste management and Li-ion battery recycling company), shares the prospects of lithium battery recycling in India, recycling methods in use, and approaches ...

Lithium Werks is a leading provider of cobalt free and high-performance Lithium Iron Phosphate ("LFP") batteries. With the recent resurgence in demand for LFP batteries, Lithium Werks is uniquely positioned to take advantage of the global opportunities before it through its integrated portfolio of LFP solutions: World



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class IP portfolio with ~219 patents related to LFP process ...

Market cap: US\$6.72 billion Share price: 25.82 Chinese yuan. Tianqi Lithium, a subsidiary of Chengdu Tianqi Industry Group, is the world's largest hard-rock lithium producer. The company has ...

Sick et al. [21] provided a literature review of scientific publications and depicted the patent landscape by analyzing patent data about lithium-ion batteries. Sick et al. [22] used the number of ...

Dakota Lithium is a company that creates practical sustainable energy products to help people across the planet with affordable transportation and long-lasting energy storage. And Dakota Lithium batteries use a lithium iron phosphate chemistry which is extremely stable and not prone to thermal runaway. Pulse 2.0 interviewed Dr. Yong Hou, vice ...

This data-file tabulates the number of patents filed into different types of batteries, by year and by geography. Hence, we have identified the patent leaders in lithium ion technology, based on 158,000 patents and the battery ...

A lithium-ion battery includes a positive electrode that includes a current collector that includes a positive electrode comprising a current collector and an active material comprising a material selected from the group consisting of LiCoO_2 , LiMn_2O_4 , $\text{LiNi}_x\text{Co}_y\text{Ni}_{(1-x-y)}\text{O}_2$, $\text{LiAl}_x\text{Co}_y\text{Ni}_{(1-x-y)}\text{O}_2$, $\text{LiTi}_x\text{Co}_y\text{Ni}_{(1-x-y)}\text{O}_2$, and combinations thereof.

Global top 10 lithium-ion battery patents by quantity and quality. The analysis further highlights that leading Korean companies like LG Chem and Samsung SDI have strong positions in both metrics - quantity (a ...

Aspen Aerogels (NYSE:ASPN) recently obtained a patent for the use of carbon aerogels in lithium-sulfur batteries. The patent has the potential to disrupt the electric vehicle and sustainable energy ...

QuantumScape is on a mission to transform energy storage with solid-state lithium-metal battery technology. The company's next-generation batteries are designed to enable greater energy density, faster charging and enhanced safety to support the transition away from legacy energy sources toward a lower carbon future.

With 12,953 Lithium-Ion Batteries related patents published between 2002 and 2022, Samsung SDI Co Ltd holds the most number of Lithium-Ion Batteries patents in the global Automotive ...

An improved lithium-ion or lithium-polymer battery that is capacity-fade resistant. The battery includes an anode comprised of graphite where density of the graphite is in a range from 1.2 to 1.5 g/c³; and the battery further has a cathode that is comprised of LiNiO_2 present at a density in a range from 3.0 to 3.3 g/c³. The battery also includes an electrolyte and a separator between ...



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EnergyX, founded in 2018, specializes in lithium mining. Its patent on solid-state batteries is co-filed with the University of Texas and is related to lithiated metal organic frameworks with a bound solvent for secondary battery applications. Ionobell is an American material and battery manufacturer founded in 2017. Its patent on solid-state ...

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 ...

RecycLiCo Battery Materials ("AMY" or the "Company") is pleased to announce that the Korean Intellectual Property Office ("KIPO") has granted Patent No. 10-2246670 for the Company's lithium-ion battery cathode recycling process (RecycLiCo(TM)), further strengthening RecycLiCo Battery Materials's international Intellectual Property position ...

Nano One ® is a clean technology company specializing in the production of low-cost, high-performance cathode active materials (CAM) for lithium-ion batteries. Our patented, scalable process addresses the environmental and cost challenges of traditional production methods. Since 2011, we've been innovating and collaborating with ...

SOPHIA ANTIPOLIS, France - March 20, 2023 | Solid-state lithium battery news: Through KnowMade's comprehensive patent landscape analysis, discover who entered the solid-state Li-ion batteries patent ...

Milwaukee Tool Lithium-ion Patents. Several specific Milwaukee Tool lithium-ion battery technology patents make up the key intellectual property for the company as it relates to batteries. Those include the following: 20070173090A1 - Battery pack; 10431857B2 - Lithium-based battery pack; 7,554,290 - Lithium-based battery pack for a hand ...

LOHUM: the largest producer of sustainable battery raw materials through recycling, repurposing, and low-carbon refining.. As a climate-tech company, we host single-point lithium ion battery recycling & reuse solutions to overcome industry-wide obstacles to sustainable energy storage.

Active metal and active metal intercalation electrode structures and battery cells having ionically conductive protective architecture including an active metal (e.g., lithium) conductive impervious layer separated from the electrode (anode) by a porous separator impregnated with a non-aqueous electrolyte (anolyte). This protective architecture prevents the ...

Moli Energy was formed not to invent a rechargeable lithium battery, but to be the first company in the world to commercialize it. The team consisted of a handful of employees -- most of who were affiliated with Haering -- and they decided to focus on lithium-metal batteries. Prior to the mid-70s, battery chemistry had been



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nickel-cadmium ...

Justia Patents US Patent Application for LITHIUM-ION BATTERY RECYCLING PROCESSES AND SYSTEMS Patent Application ... For most lithium-ion battery cathode materials, discharge to -0.8V to 1 V vs. Ag/AgCl will fully restore the lithium content. FIG. 16 shows a photograph of a portion of an example test re-lithiation electrochemical flow system 715. FIG. 17 shows an ...

Lithium-ion battery manufacturers are currently navigating a complex array of challenges stemming from raw material sourcing, competitive market dynamics, and technological advancements. A key issue is the growing ...

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 second largest number of Lithium-Ion Batteries related patents were published by LG Corp with 8,019 patents, of which 52.0% was contributed by its subsidiary LG Chem ...

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