

How many Li-ion battery patents are there in 2022?

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 and R&D labs, with less than 30% of them publishing more than one patent family that year.

Who makes lithium batteries?

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.

Which non-Chinese start-ups entered the solid-state Li-ion batteries patent landscape in 2022?

Several non-Chinese start-ups incorporated after 2016 entered the solid-state Li-ion batteries patent landscape in 2022, mainly originating from South Korea and the US. Figure 3: Main non-Chinese start-ups entering the solid-state Li-ion batteries patent landscape in 2022 (i.e., first patent published in 2022).

Which company has a patent on solid-state batteries?

Ascend Element, a material manufacturer and recycling company established in 2015, has a patent on solid-state batteries related to the recycling of all-solid-state batteries and anode recovery. PIDC (Pacific Industrial Development Corporation), founded in 1992, specializes in alumina, zeolites, rare earths, inorganics, and mixed oxides.

Who makes a lithium ionobell battery?

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What makes Panasonic a leader in the lithium-ion battery market?

Panasonic Energy Co., Ltd., with a rich history and strong market presence, is a key player in the global lithium-ion battery market. Its commitment to advancing technology and sustainable solutions marks its significant industry presence.

The partnership aims to develop lithium-sulfur EV batteries with game-changing gravimetric energy density while achieving a volumetric energy density comparable to today's lithium-ion ...

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 ...



Honiara lithium battery patent technology company

We propose the significance of patent claims in the technological trajectory of lithium battery manufacturing (LBM-Tra) research. And we construct a more robust attention mechanism of claim type and claim dependency (T& D-Mechanism).

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In this context, Knowmade is releasing a new patent landscape report covering the whole value chain of solid-state Li-ion batteries with inorganic solid electrolytes from electrolyte materials to ...

Chinese company Zhuhai CosMX Battery Co. Ltd. owes Ningde Ampere Technology Ltd. more than \$3.7 million for infringing lithium battery technology in laptops, a Texas jury determined. Skip to content. Bloomberg the Company & Its Products Bloomberg Anywhere Remote Login Bloomberg Anywhere Login Bloomberg Terminal Demo Request. Bloomberg

The Company intends to lease 8 acres or 350,000 square feet of municipal land to construct and operate its silicon anode commercial facility for lithium-ion batteries in electric vehicles (EV) ...

The Company intends to lease 8 acres or 350,000 square feet of municipal land to construct and operate its silicon anode commercial facility for lithium-ion batteries in electric vehicles (EV) and electronics. The LOI provides a framework for a long-term lease agreement to support NEO's goal of commercializing Canada's first advanced ...

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Responsive to EV market's urgent need for a battery that can be fast charged at all climate conditions, Solidion's technical team has developed and patented an effective method and ...

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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 Inc. TSX.V: AMY, OTCQB: AMYZF, FSE: ID4, a pioneer in sustainable lithium-ion battery recycling technology, is pleased to announce that the European Patent Office has ...

Wanxiang A123 Systems, a leader in global passenger battery solutions, specializes in high-tech lithium-ion batteries and holds a significant number of patents. With a strong focus on R& D, the company is well ...

Moreover, redox flow batteries are emerging as the most exciting new battery technology for grid storage, with patent activity doubling since 2014, to 894 in 2019 (also above). Hence we include notes on ESS Inc. A description of each battery type is shown in the "battery types" tab. Download the data-file for a break-out of the data by country.

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