New Swiss battery materials

Who is Swiss battery?

Our company SwissBattery.com develops battery products and materials for the electric automotive & airspace market. Our target is top benchmarking. We focused at an early stage of the product development on energy use and cost. Our products are resilient in increasingly regulated and clean emerging markets.

What is the Swiss battery technology center?

At the Swiss Battery Technology Center, we research the sustainability of electrification, operate Switzerland's largest battery test laboratory with Bern University of Applied Sciences BFH, and show how batteries can be taken apart and materials reused. We are committed to a high recycling rate of the entire battery.

What is Swiss battery used for?

The technology of Swiss Battery is suitable for a high-energy /high-power applications which can boost the range of electric airplanes. Electric aircraft are all sizes,from electric passenger airplane to all sizes of unmanned aerial vehicles (UAV) used for agricultural applications and defense.

What are Swiss battery engineers doing?

Swiss Battery engineers have secured multiple inventions that are substituting critical heavy-metals with tailor-made,renewable battery raw materials. Science is the basis of our discoveries and innovations.

Why should a company join the Swiss battery technology center?

Companies interested in creating better products for customers and the worldwill find a vital partner in the Swiss Battery Technology Center. The Center provides support throughout the product lifecycle and views itself as a long-term partner for the future evolution of the developed product.

Are zinc batteries a good alternative to lithium ion batteries?

Most common batteries that power our smartphones and electric cars are lithium-ion batteries. These are quite expensive because worldwide demand for lithium is soaring,and these batteries are also highly flammable. Water-based Zinc batteries offer a promising alternativeto these lithium-ion batteries.

The electrification of many areas of life is leading to an increased demand for high-performance batteries. Two ETH spin-offs are making waves in this field: while BTRY ...

The research group manufacturing technologies for battery production at BFH is focused on ...

Specialties Chemistry, Battery, Energy efficiency, Energy carriers, Enviroment, polymers, electrolytes, coatings, consulting, Thin Films, roll-2-roll, batteries ...

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Report: Fostering a Circular Economy of Manufacturing Materials Workshop Report NIST 2023

ETH Zurich is celebrating big news from two battery companies that are spin-offs of university research. They are leveraging Swiss industry expertise that involves novel layered production...

The research group manufacturing technologies for battery production at BFH is focused on development of new sustainable and cost-effective production technologies for battery cells ...

Amazon is trialing a new battery technology for its energy storage needs in collaboration with Swiss battery startup Unbound Potential. ... does not require any critical raw ...

In the Functional Inorganic Materials Group, led by Maksym Kovalenko and part of Empa"s Laboratory for Thin Films and Photovoltaics, the scientist is developing new ...

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From the end of next year, the materials will be used to manufacture battery ...

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Materials science It is not easy to make batteries cheap, efficient, durable, safe and environmentally friendly at the same time. Researchers at ETH Zurich have now ...

It is not a new housing concept, but a battery that uses the force of gravity to store and release energy. The first battery with this technology was connected to the power ...

From the end of next year, the materials will be used to manufacture battery electrodes at a new facility planned for 100 staff near Sion.

In the Functional Inorganic Materials Group, led by Maksym Kovalenko and part of Empa"s Laboratory for Thin Films and Photovoltaics, the scientist is developing new materials to make ...

List of the Battery Products, Chemicals, Components, used Materials used to make modern and experimental batteries and battery research and analysis.

Swiss Battery"s rechargeable patent-pending swiss batteries employing a cathode-material and chemical-substitution strategy, avoiding the use of toxic heavy-metals. The high performing ...

Swiss Battery Days 2022 . August 29-31 2022. Empa, PSI, and BFH jointly organize the 4 th edition of the Swiss Battery Days taking place on August 29-31 at Empa Academy in Dübendorf. The aim of this

event is to ...

September 18-20 2023. The aim of the event is to provide young Swiss and European researchers, active in the field of battery materials and cell manufacturing, a platform to ...

Swiss legacy battery maker Leclanché has developed XN50, the world"s first lithium-ion battery cell equipped with Echion Technologies" XNO, a niobium-based. ... The ...

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