

Award-winning works of new battery technology

Could a new Al-ion battery reduce the production cost?

The new battery could reduce the production cost of Al-ion batteries and extend their life, thus increasing their practicality. "This new Al-ion battery design shows the potential for a long-lasting, cost-effective and high-safety energy storage system.

What is the new battery that Never Dies?

Scientists and engineers have created a battery that has the potential to power devices for thousands of years. The UK Atomic Energy Authority (UKAEA) in Culham, Oxfordshire, collaborated with the University of Bristol to make the world's first carbon-14 diamond battery.

Can Al-ion batteries be used as a long-term energy storage system?

Potential substitutes for reliable long-term energy storage systems include rechargeable Al-ion batteries. However, their most common electrolyte, liquid aluminum chloride, corrodes the aluminum anode and is highly sensitive to moisture, which exacerbates the corrosion.

Could an aluminum-ion battery fit the bill?

However, there is a lack of safe and reliable battery technologies to support the push toward sustainable, clean energy. Now, researchers reporting in ACS Central Science have designed a cost-effective and environment-friendly aluminum-ion (Al-ion) battery that could fit the bill.

Could aluminum-ion batteries be a cost-effective and environment-friendly battery?

Now, researchers reporting in ACS Central Science have designed a cost-effective and environment-friendly aluminum-ion (Al-ion) battery that could fit the bill. A porous salt produces a solid-state electrolyte that facilitates the smooth movement of aluminum ions, improving this Al-ion battery's performance and longevity.

Why do we need a nuclear battery?

The battery also provides a safe way of dealing with nuclear waste. Carbon-14 is generated in graphite blocks in some nuclear fission powerplants. The UK holds almost 95,000 tonnes of graphite blocks and, by extracting carbon-14 from them, their radioactivity decreases, reducing the cost and challenge of safely storing the waste.

Chrysler Group is offering fuel-saving Engine Stop-Start (ESS) technology as standard equipment on certain models of the award-winning 2015 Jeep Cherokee mid-size SUV and all-new 2015 Chrysler 200 ...

Breakthrough tech reduces danger of power units overheating, overcharging Chinese scientists have won a prestigious European invention award for their work in innovating safer lithium ion batteries.

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TAIPEI, Dec. 19, 2024 /PRNewswire/ -- XING Mobility, a global leader in immersion-cooled battery technology, will participate in CES 2025 from January 7-10 in Las Vegas s latest IMMERSIO ...

"Automotive companies choose to work with Breathe due to the relative impact and speed of implementation compared to other alternatives, such as using new materials ...

Chinese scientists have won a prestigious European invention award for their work in innovating safer lithium ion batteries. The European Patent Office, or EPO, offered the ...

Josh de Wit, a second-year mechanical engineering student, has won the Autocar-Courland Next Generation Award for 2016 with a concept that could ...

With a background in Film & TV lighting, we understand the pressure productions are challenged with as they move towards sustainable technology. How We Work e-vis supplies renewable green energy to support change for a carbon neutral cinematic future

4 ???· The Battery Division Technology Award was established in 1993 to encourage the development of battery and fuel cell technology, and to recognize significant achievements in this area. The award is given to those individuals who have made outstanding contributions to the technology of primary and secondary cells, batteries, and/or fuel cells.

2 ???· High-throughput electrode processing is needed to meet lithium-ion battery market demand. This Review discusses the benefits and drawbacks of advanced electrode ...

CATL has announced the launch of their second-generation Sodium-ion Battery at the World Young Scientists Summit.. Introduction to CATL's Sodium-ion Battery. The focus keyphrase here is the second ...

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