

Rubber-based systems are crucial in energy storage devices like ...

Mechanical engineering graduate researcher Michael Lee, part of a team at Georgia Institute of Technology, is rethinking an essential battery component by reshaping rubber. The ...

In this work, we propose the concept of ionic conductive rubber (ICR) electrolyte to improve the ionic conductivity of conventional rubber and create a quasi-solid polymer electrolyte ...

A new concept was proposed as the energy storage rubber to develop the batteries involving electrode materials in rubber matrix. The cathode active material (LiMn_2O_4) and conductive carbon were ...

This unique lithium-conducting elastomer enables intimate contact and fast lithium-ion transport, resulting in long-life and high-performance solid-state lithium metal batteries.

Rubber-based systems are crucial in energy storage devices like supercapacitors and batteries due to their versatility, reliability, eco-friendly nature, thermal resistance, and flexibility.

A self-adaptive solid-state elastomeric electrolyte inspired by rubber tires is designed, combining molecular-level plasticizer dispersion, mechanical flexibility, and interfacial adaptivity.

Discover how silicone rubber revolutionizes energy storage for a sustainable future. Explore its potential in batteries and more.

Researchers have found a promising alternative to conventional lithium-ion batteries: rubber. EV batteries consisting of rubber are expected to be cost-effective, stronger, and safer.

Researchers may have found a promising alternative to conventional lithium-ion batteries made from a common material: rubber. For electric vehicles (EVs) to become mainstream, they need...

SBR can withstand the harsh conditions within a lithium-ion battery, including exposure to electrolytes and elevated temperatures. This durability contributes to the overall lifespan of the battery.

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